
Klovve

Release 0.3

unknown

Dec 29, 2022

CONTENTS

1	License	3
2	Up-To-Date?	5
3	User Manual	7
3.1	Getting Started	7
4	API Reference	9
4.1	klovve package	9
	Python Module Index	85
	Index	87

Klovve is a UI lib.

LICENSE

Klovve is distributed under the terms of the AGPL 3 license. This also affects all included files without a license header (non-source files like images), unless they are explicitly mentioned as third-party content. Read the ‘Dependencies’ section for included third-party stuff.

UP-TO-DATE?

Are you currently reading from another source than the homepage? If you are in doubt whether your package is up-to-date, you should visit the project homepage and check that. You are currently reading the documentation for version 0.3.

USER MANUAL

3.1 Getting Started

3.1.1 Foo

This section is about getting ready.

API REFERENCE

4.1 klovve package

class `klovve.BaseView(model, view_factory)`
Bases: `Generic[klovve.view._TGo]`

Parameters

- **model** (`klovve.view._TGo`) –
- **view_factory** (`ViewFactory`) –

get_native(*model*, *model_bind*)

Parameters

- **model** (`klovve.view._TGo`) –
- **model_bind** (`klovve.view._TGo`) –

Return type object

get_native_stuff()

4.1.1 Subpackages

klovve.+tests namespace

Submodules

klovve.+tests.data module

klovve.+tests.view module

klovve.data package

Submodules

klovve.data.deps module

Dependency tracking for model properties.

Klovve applications typically do not need anything from here.

class `klovve.data.deps.DependencySubject`

Bases: `object`

Base class for objects that can attend on dependency tracking.

See `detect_dependencies()` and others.

`_flush_dependency_handlers(prop)`

Parameters `prop` (`klovve.data.model.PropertyBase`) –

Return type `None`

`_get_dependencies(prop)`

Parameters `prop` (`klovve.data.model.PropertyBase`) –

Return type `Iterable[tuple]`

`_set_dependencies(prop, new_dependencies)`

Parameters

- `prop` (`klovve.data.model.PropertyBase`) –
- `new_dependencies` (`Iterable[tuple]`) –

Return type `None`

`klovve.data.deps.defer_value_propagation()`

Defers the automatic refreshes on model property changes for a code block and applies them afterwards.

Use it for a `with` statement. Model property modifications do not instantly lead to updates on depending properties in that `with` block.

Computed properties will always return the right value on access, not an outdated one.

Return type `ContextManager[None]`

`klovve.data.deps.detect_dependencies(subject, prop, *, append=False)`

Detect dependencies for a code block.

Use it for a `with` statement.

Parameters

- `subject` (`klovve.data.deps.DependencySubject`) – The object to track dependencies for.
- `prop` (`klovve.data.model.PropertyBase`) – The property of that object to track dependencies for.
- `append` (`bool`) – If to append dependencies in this block to the known one (instead of replacing them).

Return type `ContextManager[None]`

`klovve.data.deps.no_dependency_tracking()`

Stops dependency tracking of the current computation for a code block.

Use it for a `with` statement. Model property accesses do not count as a dependency in that `with` block.

It will not influence dependency tracking for other computations inside yours (i.e. if you access a computed property, the dependency tracking of this one will not break).

Return type `ContextManager[None]`

`klovve.data.deps.notify_dependency(model, prop)`

Notify the dependency tracking about a new dependency for the current computation (usually after a property read access).

Parameters

- **model** (`klovve.data.model.Model`) – The new dependency model.
- **prop** (`klovve.data.model.PropertyBase`) – The dependency property in the model.

Return type `None`

`klovve.data.deps.notify_property_value_changed(model, prop)`

Notify the dependency tracking about the change of a model property.

Parameters

- **model** (`klovve.data.model.Model`) – The model that was changed.
- **prop** (`klovve.data.model.PropertyBase`) – The changed property in the model.

Return type `bool`

`klovve.data.lists` module

`class klovve.data.lists.List(content=())`

Bases: `collections.abc.MutableSequence`, `klovve.data.observable_value.ObservableValue`

A list implementation that is observable (with `ListObserver` or as `klovve.data.observable_value.ObservableValue`) and has some other additional features.

Parameters **content** (`Iterable`) –

`__correct_index(i)`

Parameters **i** (`int`) –

Return type `int`

`_abc_impl = <_abc._abc_data object>`

`_add_observer(observer, *, initialize=True)`

Attach a `ListObserver` to this list.

For a model's list property, you have to use `klovve.data.model.Model.add_list_observer()` instead.

Parameters

- **observer** (`klovve.data.lists.ListObserver`) – The observer to attach.
- **initialize** (`bool`) – Whether to initialize the observer with the current content.

Return type `None`

`_is_protocol = False`

`_remove_observer`(*observer*)

Detach a [ListObserver](#) from this list.

For a model's list property, you have to use `TODO` instead.

Parameters **observer** (`klovve.data.lists.ListObserver`) – The observer to detach.

Return type `None`

`insert`(*i*, *v*)

`S.insert(index, value)` – insert value before index

`move`(*target_index*, *source_index*)

Move an element.

Parameters

- **target_index** (*int*) – The new index.
- **source_index** (*int*) – The old index.

Return type `None`

`update`(*source_list*, *, *create_target_object_func*=<function `_update__default_create_target_object`>, *update_target_object_func*=<function `_update__default_update_target_object`>, *is_matching_target_object_func*=<function `_update__default_is_matching_target_object`>)

Update this list with the content of another one.

Parameters

- **source_list** (`Iterable[Any]`) – The content to apply to this list.
- **create_target_object_func** (`Callable[[Any], Any]`) – Function that creates a representation for a source object in the target list. Advanced feature.
- **update_target_object_func** (`Callable[[Any, Any], None]`) – Function that updates the representation for a source object in the target list. Advanced feature.
- **is_matching_target_object_func** (`Callable[[Any, Any], bool]`) – Function that checks if a particular object is the representation for a particular source object in the target list. Advanced feature.

`class klovve.data.lists.ListObserver`

Bases: `object`

Abstract base class for objects that can listen to changes on a [List](#).

`item_added`(*index*, *item*)

Called when an item was added to the observed list.

Parameters

- **index** (*int*) – The position where the new item was inserted.
- **item** (*object*) – The new item.

Return type `None`

`item_moved`(*from_index*, *to_index*)

Called when an item was moved inside the observed list.

Parameters

- **from_index** (*int*) – The position of the element that was moved.
- **to_index** (*int*) – The new position of the moved element.

Return type None

item_removed(*index*)

Called when an item was removed from the observed list.

Parameters **index** (*int*) – The position of the item that was removed.

Return type None

item_replaced(*index*, *item*)

Called when an item was replaced by another one in the observed list.

Parameters

- **index** – The position where the item was replaced.
- **item** – The new item.

Return type None

klovve.data.lists._update__default_create_target_object(*source_object*)

Default function for target object creation in [List.update\(\)](#).

It just returns the source object.

Parameters **source_object** (*Any*) – The source object.

Return type Any

klovve.data.lists._update__default_is_matching_target_object(*target_object*, *source_object*)

Default function for target/source object comparison in [List.update\(\)](#).

It compares the objects with the == operator.

Parameters

- **target_object** (*Any*) – The target object.
- **source_object** (*Any*) – The source object.

Return type bool

klovve.data.lists._update__default_update_target_object(*target_object*, *source_object*)

Default function for target object updating in [List.update\(\)](#).

It does nothing.

Parameters

- **target_object** (*Any*) – The target object.
- **source_object** (*Any*) – The source object.

Return type None

klovve.data.model module

klovve.data.model.ComputedProperty(*func=None*, *, *initially=<function _get_none_value_func>*,
use_last_value_during_recompute=True)

Parameters

- **func** (*Optional[Callable[[], Any]]*) –
- **initially** (*Callable[[], Any]*) –

- `use_last_value_during_recompute` (*bool*) –

Return type `Callable[[Callable[[], Any]], klovve.data.model._ComputedProperty]`

class `klovve.data.model.ListProperty`(*, *default*=<function `ListProperty.<lambda>`>)

Bases: `klovve.data.model.Property`

Parameters `default` (`Callable[[], Iterable[Any]]`) –

`_fset`(*obj*, *value*)

class `klovve.data.model.Model`(***kwargs*)

Bases: `klovve.data.deps.DependencySubject`

`__add_changed_handler`(*prop*, *func*)

Parameters `func` (`Callable[[], None]`) –

Return type `None`

`__available_version`(*prop*)

Parameters `prop` (`klovve.data.model.PropertyBase`) –

`__compute`(*prop*)

Parameters `prop` (`klovve.data.model.PropertyBase`) –

`__head_version`(*prop*)

Parameters `prop` (`klovve.data.model.PropertyBase`) –

`__invalidate`(*prop*)

Parameters `prop` (`klovve.data.model.PropertyBase`) –

`__remove_changed_handler`(*prop*, *func*)

Parameters

- `prop` (`klovve.data.model.PropertyBase`) –
- `func` (`Callable[[], None]`) –

Return type `None`

`_flush_dependency_handlers`(*prop*)

`_get_dependencies`(*prop*)

`_set_dependencies`(*prop*, *new_dependencies*)

`_set_value`(*prop*, *value*)

Parameters `prop` (`klovve.data.model.PropertyBase`) –

`_trigger_changed`(*prop*)

Parameters `prop` (`klovve.data.model.PropertyBase`) –

`_value(prop)`

Parameters `prop` (`klovve.data.model.PropertyBase`) –

class `klovve.data.model.Property`(*, `default=<function _get_none_value_func>`)
 Bases: `klovve.data.model.PropertyBase`

Parameters `default` (`Callable[[], Any]`) –

`_compute(obj)`

class `klovve.data.model.PropertyBase`
 Bases: `property`
`_compute(obj)`

Return type `Any`

`_fget(obj)`

`_fset(obj, value)`

`_initially()`

Return type `Any`

`_use_last_value_during_recompute()`

Return type `bool`

class `klovve.data.model._ComputedProperty`(`func`, *, `initially`, `use_last_value_during_recompute`)
 Bases: `klovve.data.model.PropertyBase`

Parameters

- `initially` (`Callable[[], Any]`) –
- `use_last_value_during_recompute` (`bool`) –

`_compute(obj)`

`_fset(obj, value)`

`_initially()`

`_use_last_value_during_recompute()`

`klovve.data.model._get_none_value_func()`

`klovve.data.model.observe_list(model, prop_name, observer, *, initialize=True)`

Parameters

- `model` (`klovve.data.model.Model`) –
- `prop_name` (`str`) –
- `observer` (`klovve.data.lists.ListObserver`) –
- `initialize` (`bool`) –

Return type `None`

klovve.data.observable_value module

```
class klovve.data.observable_value.ObservableValue(*args, **kwargs)
    Bases: klovve.data.observable_value.ObservableValueProtocol
    _abc_impl = <_abc._abc_data object>
    _is_protocol = False
    _trigger_changed()
    add_changed_handler(func)
    remove_changed_handler(func)

class klovve.data.observable_value.ObservableValueProtocol(*args, **kwargs)
    Bases: Protocol
    _abc_impl = <_abc._abc_data object>
    _is_protocol = True
    _is_runtime_protocol = True
    _trigger_changed()

    Return type None
    add_changed_handler(func)

    Parameters func (Callable[[], None]) –
    Return type None
    remove_changed_handler(func)

    Parameters func (Callable[[], None]) –
    Return type None
```

klovve.data.reaction module

Reactions are a way to define a computation that automatically is repeated whenever depending models change. See [reaction\(\)](#).

```
class klovve.data.reaction._ReactionModel(func)
    Bases: klovve.data.model.Model
    property value
```

```
klovve.data.reaction.reaction(*, owner, initially=<function _get_none_value_func>,
                               use_last_value_during_recompute=True)
```

Define a function to be a reaction. It will automatically get executed when defined, and whenever any depending models change.

Use it as a function decorator.

It is similar to a [klovve.data.model.ComputedProperty](#) in a model, but can be defined anywhere, which makes them very convenient in some situations.

Parameters

- **owner** (*Any*) – The object which owns the reaction. The reaction will usually stay alive as long as the owner still exists.
- **initially** (*Callable[[], Any]*) – Function which returns the initial value. Only relevant for async reactions.
- **use_last_value_during_recompute** (*bool*) – Whether to use the last computed value during re-computation (instead of setting it back to the initial value meanwhile).

Return type *Callable[[Callable[[], Any]], klovve.data.reaction._ReactionModel]*

klovve.data.value_holder module

class klovve.data.value_holder.**ComputedValue**(*func, model, model_bind, pieces*)

Bases: *klovve.data.value_holder.ValueHolder*

_abc_impl = *<_abc._abc_data object>*

get_value()

is_settable()

set_value(*value*)

class klovve.data.value_holder.**OneWayBinding**(*model, prop_name, converter_in=None, converter_out=None*)

Bases: *klovve.data.value_holder.ValueHolder*

_abc_impl = *<_abc._abc_data object>*

get_value()

is_settable()

set_value(*value*)

class klovve.data.value_holder.**TwoWayBinding**(*model, prop_name, converter_in=None, converter_out=None*)

Bases: *klovve.data.value_holder.OneWayBinding*

_abc_impl = *<_abc._abc_data object>*

is_settable()

class klovve.data.value_holder.**ValueHolder**

Bases: *abc.ABC*

_abc_impl = *<_abc._abc_data object>*

abstract get_value()

Return type *Any*

abstract is_settable()

Return type *bool*

abstract set_value(*value*)

Parameters *value* (*Any*) –

Return type *None*

klovve.drivers package

class klovve.drivers.Driver

Bases: object

_create_mainloop()

_mainloop = None

property mainloop

model_type(*name_tuple*, *additional_packages*)

Parameters

- **name_tuple** (*Iterable[str]*) –
- **additional_packages** (*Iterable[str]*) –

Return type Type[klovve.View]

static name()

Return type str

static rank()

Return type float

show_window(*window*)

view_type(*name_tuple*, *additional_packages*)

Parameters

- **name_tuple** (*Iterable[str]*) –
- **additional_packages** (*Iterable[str]*) –

Return type Type[klovve.View]

Subpackages

klovve.drivers.bare_terminal package

class klovve.drivers.bare_terminal.Driver

Bases: *klovve.drivers.Driver*

_create_mainloop()

static name()

static rank()

show_window(*window*)

Subpackages

klovve.drivers.bare_terminal.views package

Subpackages

klovve.drivers.bare_terminal.views.interact package

Submodules

klovve.drivers.bare_terminal.views.interact.abstract module

```
class klovve.drivers.bare_terminal.views.interact.abstract.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (klovve.pieces.interact.abstract.Model) –
- **view_factory** (ViewFactory) –

get_native(model, model_bind)

model: *klovve.pieces.interact.abstract.Model*

klovve.drivers.bare_terminal.views.viewer package

Submodules

klovve.drivers.bare_terminal.views.viewer.image module

```
class klovve.drivers.bare_terminal.views.viewer.image.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (klovve.pieces.viewer.image.Model) –
- **view_factory** (ViewFactory) –

get_native(model, model_bind)

model: *klovve.pieces.viewer.image.Model*

Submodules

klovve.drivers.bare_terminal.views.checkable module

```
class klovve.drivers.bare_terminal.views.checkable.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (klovve.pieces.checkable.Model) –

- **view_factory** (*ViewFactory*) –

get_native(*model*, *model_bind*)

model: *klovve.pieces.checkable.Model*

klovve.drivers.bare_terminal.views.headered_panel module

class *klovve.drivers.bare_terminal.views.headered_panel.View*(*model*, *view_factory*)

Bases: *Generic*[*klovve.view._TGo*]

Parameters

- **model** (*klovve.pieces.headered_panel.Model*) –
- **view_factory** (*ViewFactory*) –

get_native(*model*, *model_bind*)

model: *klovve.pieces.headered_panel.Model*

klovve.drivers.bare_terminal.views.label module

class *klovve.drivers.bare_terminal.views.label.View*(*model*, *view_factory*)

Bases: *Generic*[*klovve.view._TGo*]

Parameters

- **model** (*klovve.pieces.label.Model*) –
- **view_factory** (*ViewFactory*) –

get_native(*model*, *model_bind*)

model: *klovve.pieces.label.Model*

klovve.drivers.bare_terminal.views.log_pager module

class *klovve.drivers.bare_terminal.views.log_pager.View*(*model*, *view_factory*)

Bases: *Generic*[*klovve.view._TGo*]

Parameters

- **model** (*klovve.pieces.log_pager.Model*) –
- **view_factory** (*ViewFactory*) –

get_native(*model*, *model_bind*)

model: *klovve.pieces.log_pager.Model*

klovve.drivers.bare_terminal.views.placeholder module

```
class klovve.drivers.bare_terminal.views.placeholder.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (klovve.pieces.placeholder.Model) –
- **view_factory** (ViewFactory) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.placeholder.Model
```

klovve.drivers.bare_terminal.views.split module

```
class klovve.drivers.bare_terminal.views.split.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (klovve.pieces.split.Model) –
- **view_factory** (ViewFactory) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.split.Model
```

klovve.drivers.bare_terminal.views.vertical_box module

```
class klovve.drivers.bare_terminal.views.vertical_box.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (klovve.pieces.vertical_box.Model) –
- **view_factory** (ViewFactory) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.vertical_box.Model
```

klovve.drivers.bare_terminal.views.window module

```
class klovve.drivers.bare_terminal.views.window.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (klovve.pieces.window.Model) –
- **view_factory** (ViewFactory) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.window.Model
```

klovve.drivers.curses package

```
class klovve.drivers.curses.Driver
    Bases: klovve.drivers.Driver
    _create_mainloop()
    static name()
    static rank()
    show_window(window)

class klovve.drivers.curses.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.view._TGo) –
        • view_factory (ViewFactory) –

    __bind(*, aprop_name, value_holder)

    Parameters value_holder (klovve.data.value_holder.ValueHolder) –

    static bind(aobj, aprop_name, value)

    Parameters value (Any) –

    static fizzle_new(viewtype, **kwargs)

klovve.drivers.curses.children(widget)
```

Subpackages

klovve.drivers.curses.views package

Subpackages

klovve.drivers.curses.views._curses_private package

Submodules

klovve.drivers.curses.views._curses_private.box module

```
class klovve.drivers.curses.views._curses_private.box.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.view._TGo) –
        • view_factory (ViewFactory) –

    _orientation()

    get_native(model, model_bind)
```

klovve.drivers.curses.views.form package

```
class klovve.drivers.curses.views.form.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.form.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.form.Model
```

Submodules**klovve.drivers.curses.views.form.section module**

```
class klovve.drivers.curses.views.form.section.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.form.section.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.form.section.Model
```

klovve.drivers.curses.views.interact package**Submodules****klovve.drivers.curses.views.interact.abstract module**

```
class klovve.drivers.curses.views.interact.abstract.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.interact.abstract.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.interact.abstract.Model
```

klovve.drivers.curses.views.property_panel package

```
class klovve.drivers.curses.views.property_panel.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.property_panel.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.property_panel.Model
```

klovve.drivers.curses.views.tabbed package

```
class klovve.drivers.curses.views.tabbed.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.tabbed.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.tabbed.Model
```

Submodules**klovve.drivers.curses.views.tabbed.tab module**

```
class klovve.drivers.curses.views.tabbed.tab.View(*args, **kwargs)
    Bases: klovve.view.BaseView, Generic[klovve.view._TGo]
```

```
get_composition(model, model_bind, pieces)
```

```
model: klovve.pieces.tabbed.tab.Model
```

klovve.drivers.curses.views.viewer package**Submodules****klovve.drivers.curses.views.viewer.image module**

```
class klovve.drivers.curses.views.viewer.image.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.viewer.image.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
```

model: *klovve.pieces.viewer.image.Model*

klovve.drivers.curses.views.viewer.pdf module

class klovve.drivers.curses.views.viewer.pdf.**View**(*model, view_factory*)

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.pieces.viewer.pdf.Model) –
- **view_factory** (ViewFactory) –

get_native(*model, model_bind*)

model: *klovve.pieces.viewer.pdf.Model*

Submodules

klovve.drivers.curses.views.busy_animation module

class klovve.drivers.curses.views.busy_animation.**Model**(***kwargs*)

Bases: *klovve.pieces.busy_animation.Model*

gtk_orientation()

spinner_size()

class klovve.drivers.curses.views.busy_animation.**View**(*model, view_factory*)

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.drivers.curses.views.busy_animation.Model) –
- **view_factory** (ViewFactory) –

get_native(*model, model_bind*)

model: *klovve.drivers.curses.views.busy_animation.Model*

klovve.drivers.curses.views.button module

class klovve.drivers.curses.views.button.**Context**(*fabric, button*)

Bases: object

async_dialog(*view*)

error_message_for_exceptions(**exception_types*)

property fabric

class klovve.drivers.curses.views.button.**View**(*model, view_factory*)

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.pieces.button.Model) –
- **view_factory** (ViewFactory) –

```
get_native(model, model_bind)
model: klovve.pieces.button.Model
```

klovve.drivers.curses.views.checkable module

```
class klovve.drivers.curses.views.checkable.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.text_field.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
model: klovve.pieces.text_field.Model
```

klovve.drivers.curses.views.disableable module

```
class klovve.drivers.curses.views.disableable.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.disableable.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
model: klovve.pieces.disableable.Model
```

klovve.drivers.curses.views.dropdown module

```
class klovve.drivers.curses.views.dropdown.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.dropdown.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
model: klovve.pieces.dropdown.Model
```

klovve.drivers.curses.views.dual module

```
class klovve.drivers.curses.views.dual.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.dual.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.dual.Model
```

klovve.drivers.curses.views.formatted_text module

```
class klovve.drivers.curses.views.formatted_text.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.formatted_text.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.formatted_text.Model
```

klovve.drivers.curses.views.header module

```
class klovve.drivers.curses.views.header.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.header.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.header.Model
```

klovve.drivers.curses.views.headered_panel module

```
class klovve.drivers.curses.views.headered_panel.Model(**kwargs)
    Bases: klovve.pieces.headered_panel.Model
```

```
property title_label_background
```

```
class klovve.drivers.curses.views.headered_panel.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.headered_panel.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.headered_panel.Model
```

klovve.drivers.curses.views.horizontal_box module

```
class klovve.drivers.curses.views.horizontal_box.View(model, view_factory)
```

```
Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.horizontal_box.Model*) –
- **view_factory** (*ViewFactory*) –

```
_orientation()
```

```
model: klovve.pieces.horizontal_box.Model
```

klovve.drivers.curses.views.label module

```
class klovve.drivers.curses.views.label.View(model, view_factory)
```

```
Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.label.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.label.Model
```

klovve.drivers.curses.views.list module

```
class klovve.drivers.curses.views.list.View(model, view_factory)
```

```
Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.list.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.list.Model
```

klovve.drivers.curses.views.log_pager module

```
class klovve.drivers.curses.views.log_pager.View(*args, **kwargs)
    Bases: Generic[klovve.view._TGo]
    get_native(model, model_bind)
    model: klovve.pieces.log_pager.Model
klovve.drivers.curses.views.log_pager._time_text(d)
```

klovve.drivers.curses.views.placeholder module

```
class klovve.drivers.curses.views.placeholder.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
    Parameters
        • model (klovve.pieces.placeholder.Model) –
        • view_factory (ViewFactory) –
    get_native(model, model_bind)
    model: klovve.pieces.placeholder.Model
```

klovve.drivers.curses.views.progress module

```
class klovve.drivers.curses.views.progress.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
    Parameters
        • model (klovve.pieces.progress.Model) –
        • view_factory (ViewFactory) –
    get_native(model, model_bind)
    model: klovve.pieces.progress.Model
```

klovve.drivers.curses.views.scrollable module

```
class klovve.drivers.curses.views.scrollable.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
    Parameters
        • model (klovve.pieces.scrollable.Model) –
        • view_factory (ViewFactory) –
    get_native(model, model_bind)
    model: klovve.pieces.scrollable.Model
```

klovve.drivers.curses.views.slider module

```
class klovve.drivers.curses.views.slider.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.slider.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.slider.Model
```

klovve.drivers.curses.views.split module

```
class klovve.drivers.curses.views.split.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.split.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.split.Model
```

klovve.drivers.curses.views.text_field module

```
class klovve.drivers.curses.views.text_field.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.text_field.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.text_field.Model
```

klovve.drivers.curses.views.vertical_box module

```
class klovve.drivers.curses.views.vertical_box.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.vertical_box.Model`) –
- **view_factory** (`ViewFactory`) –

```
_orientation()
```

```
model: klovve.pieces.vertical_box.Model
```

klovve.drivers.curses.views.window module

```

class klovve.drivers.curses.views.window.Context(fabric, main_window)
    Bases: object
        async dialog(view)
        error_message_for_exceptions(*exception_types)
        property fabric
class klovve.drivers.curses.views.window.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
        Parameters
            • model (klovve.pieces.window.Model) –
            • view_factory (ViewFactory) –
        get_native(model, model_bind)
        model: klovve.pieces.window.Model

```

klovve.drivers.curses.viuid package

```

class klovve.drivers.curses.viuid.Point(x, y)
    Bases: object
        Parameters
            • x(int) –
            • y(int) –
        moved_by(x=0, y=0)

        Parameters
            • x(int) –
            • y(int) –
        Return type klovve.drivers.curses.viuid.Point
        with_x(x)

        Parameters x(int) –
        Return type klovve.drivers.curses.viuid.Point
        with_y(y)

        Parameters y(int) –
        Return type klovve.drivers.curses.viuid.Point
        property x: int
        property y: int
class klovve.drivers.curses.viuid.Rectangle(from_point, to)
    Bases: object

```

Parameters

- **from_point** (`klovve.drivers.curses.viwid.Point`) –
- **to** (`Union[klovve.drivers.curses.viwid.Point, klovve.drivers.curses.viwid.Size]`) –

property bottom_right: `klovve.drivers.curses.viwid.Point`

property bottom_y: `int`

property height: `int`

property left_x: `int`

property right_x: `int`

property top_left: `klovve.drivers.curses.viwid.Point`

property top_y: `int`

property width: `int`

class `klovve.drivers.curses.viwid.Size(width, height)`

Bases: `object`

Parameters

- **width** (`int`) –
- **height** (`int`) –

extend_by (`width=0, height=0`)

Parameters

- **width** (`int`) –
- **height** (`int`) –

Return type `klovve.drivers.curses.viwid.Size`

property height: `int`

property width: `int`

with_height (`height`)

Parameters **height** (`int`) –

Return type `klovve.drivers.curses.viwid.Size`

with_width (`width`)

Parameters **width** (`int`) –

Return type `klovve.drivers.curses.viwid.Size`

Subpackages

klovve.drivers.curses.viwid.+samples namespace

Submodules

klovve.drivers.curses.viwid.+samples.hello_world module

klovve.drivers.curses.viwid.+samples.hello_world2 module

klovve.drivers.curses.viwid.drivers package

klovve.drivers.curses.viwid.drivers.get_driver(event_loop=None)

Return type *viwid.drivers.driver.Driver*

Submodules

klovve.drivers.curses.viwid.drivers.curses module

class klovve.drivers.curses.viwid.drivers.curses.**Driver**(event_loop)

Bases: viwid.drivers.driver.Driver

__requests_queue()

_abc_impl = <_abc._abc_data object>

add_widget_screen(widget)

canvas(widget)

property curses_colors

property loop

process_curses_input()

refresh_curses_window()

repaint_widget_soon(widget)

resize_widget_soon(widget)

property screens

class klovve.drivers.curses.viwid.drivers.curses._Canvas(driver, window, widget)

Bases: viwid.canvas.Canvas

Parameters

- **driver** (klovve.drivers.curses.viwid.drivers.curses.Driver) –
- **window** (_curses.window) –
- **widget** (viwid.widgets.widget.Widget) –

cursor(point)

fill(color, rectangle=None)

text(*text*, *rectangle=None*)

class klovve.drivers.curses.viwid.drivers.curses._CursesColors

Bases: object

class Mode(*value*)

Bases: enum.Enum

An enumeration.

COLORS_256 = 2

COLORS_8 = 1

_CursesColors__curses_color(*color*)

Parameters **color** (viwid.canvas.Color) –

color_pair(*fg*, *bg*)

Parameters

- **fg** (Union[viwid.canvas.FullColor, viwid.canvas.Color, str]) –
- **bg** (Union[viwid.canvas.FullColor, viwid.canvas.Color, str]) –

colors_by_pair(*pair*)

curses_colors = [0, 4, 2, 6, 1, 5, 3, 7]

class klovve.drivers.curses.viwid.drivers.curses._Loop(*event_loop*, *driver*)

Bases: viwid.loop.Loop

Parameters **driver** (klovve.drivers.curses.viwid.drivers.curses.Driver) –

async run()

Return type None

class klovve.drivers.curses.viwid.drivers.curses._Screen(*curses_screen*, *driver*)

Bases: viwid.screen.Screen

Parameters

- **curses_screen** (_curses.window) –
- **driver** (klovve.drivers.curses.viwid.drivers.curses.Driver) –

property **focussed_widget**

property **size**: viwid.Size

update_curses_screensize()

klovve.drivers.curses.viwid.drivers.driver module

```
class klovve.drivers.curses.viwid.drivers.driver.Driver
```

```
    Bases: abc.ABC
```

```
    _abc_impl = <_abc._abc_data object>
```

```
    abstract add_widget_screen(widget)
```

```
        Parameters widget (viwid.widgets.widget.Widget) –
```

```
        Return type <module 'viwid.screen' from '/home/pino/projects/krrz_9/src/klovve/drivers/curses/viwid/screen.py'>
```

```
    abstract canvas(widget)
```

```
        Parameters widget (viwid.widgets.widget.Widget) –
```

```
        Return type viwid.canvas.Canvas
```

```
    abstract property loop: viwid.loop.Loop
```

```
    abstract repaint_widget_soon(widget)
```

```
        Parameters widget (viwid.widgets.widget.Widget) –
```

```
        Return type None
```

```
    abstract resize_widget_soon(widget)
```

```
        Parameters widget (viwid.widgets.widget.Widget) –
```

```
        Return type None
```

```
    abstract property screens: Iterable[viwid.screen.Screen]
```

klovve.drivers.curses.viwid.event package**Submodules****klovve.drivers.curses.viwid.event.base module**

```
class klovve.drivers.curses.viwid.event.base.OngoingEvent(name)
```

```
    Bases: object
```

```
        Parameters name (str) –
```

```
    property is_propagation_stopped: bool
```

```
    property name
```

```
    stop_propagation()
```

```
        Return type None
```

klovve.drivers.curses.viwid.event.input module

```
class klovve.drivers.curses.viwid.event.input.KeyboardOngoingEvent(key)
```

```
    Bases: viwid.event.base.OngoingEvent
```

```
    property key
```

```
class klovve.drivers.curses.viwid.event.input.MouseClickOngoingEvent(screen_position,  
                                                                    left_button, right_button)
```

```
    Bases: viwid.event.base.OngoingEvent
```

Parameters

- **screen_position** ([viwid.Point](#)) –
- **left_button** (*bool*) –
- **right_button** (*bool*) –

```
    property left_button: bool
```

```
    property right_button: bool
```

```
    property screen_position: viwid.Point
```

```
class klovve.drivers.curses.viwid.event.input.ScrollOngoingEvent(screen_position, direction)
```

```
    Bases: viwid.event.base.OngoingEvent
```

Parameters

- **screen_position** ([viwid.Point](#)) –
- **direction** (*int*) –

```
    property direction: int
```

```
    property screen_position: viwid.Point
```

klovve.drivers.curses.viwid.widgets package

Submodules

klovve.drivers.curses.viwid.widgets.box module

```
class klovve.drivers.curses.viwid.widgets.box.Box(**kwargs)
```

```
    Bases: viwid.widgets.widget.Widget
```

```
    __item_added(index, item)
```

Parameters

- **index** (*int*) –
- **item** (*object*) –

Return type: `None`

```
    __item_removed(index)
```

Parameters **index** (*int*) –

Return type None

`_partitioning2()`

property children

property orientation

class klovve.drivers.curses.viwid.widgets.box.CBox(**kwargs)
Bases: [klovve.drivers.curses.viwid.widgets.box.Box](#)

property class_style_name

class klovve.drivers.curses.viwid.widgets.box.Orientation(value)
Bases: enum.Enum

An enumeration.

HORIZONTAL = 2

VERTICAL = 1

[klovve.drivers.curses.viwid.widgets.busy_animation module](#)

class klovve.drivers.curses.viwid.widgets.busy_animation.BusyAnimation(**kwargs)
Bases: [viwid.widgets.label.Label](#)
`__next()`

[klovve.drivers.curses.viwid.widgets.button module](#)

class klovve.drivers.curses.viwid.widgets.button.Button(**kwargs)
Bases: [viwid.widgets.label.Label](#)
`_keyboard_event(event)`
`_mouse_click_event(event)`
property class_style_name
property focusable
property on_click

[klovve.drivers.curses.viwid.widgets.check_button module](#)

class klovve.drivers.curses.viwid.widgets.check_button.CheckButton(**kwargs)
Bases: [viwid.widgets.button.Button](#)
`_keyboard_event(event)`
`_mouse_click_event(event)`
property checked
`compute_height(width, minimal)`
`compute_width(minimal)`
`paint(canvas)`

klovve.drivers.curses.viwid.widgets.dropdown module

```
class klovve.drivers.curses.viwid.widgets.dropdown.DropDown(**kwargs)
    Bases: viwid.widgets.button.Button
    __click()
    _select(i)
    property items
    property selected_index
    property selected_item
```

klovve.drivers.curses.viwid.widgets.entry module

```
class klovve.drivers.curses.viwid.widgets.entry.Entry(**kwargs)
    Bases: viwid.widgets.widget.Widget
    _keyboard_event(event)
    property class_style_name
    compute_height(width, minimal)

        Parameters width (int) –
        Return type int
    compute_width(minimal)

        Return type int
    property cursor_position
    property focusable
    paint(canvas)
    property text
```

klovve.drivers.curses.viwid.widgets.frame module

```
class klovve.drivers.curses.viwid.widgets.frame.Frame(**kwargs)
    Bases: viwid.widgets.box.Box
    compute_height(width, minimal)
    compute_width(minimal)
    property item
    paint(canvas)
    set_size(v)
```

klovve.drivers.curses.viwid.widgets.label module

```

class klovve.drivers.curses.viwid.widgets.label.Label(**kwargs)
    Bases: viwid.widgets.widget.Widget
    __find_last_whitespace(i_from, i_to)
    _text_in_width(width)
    compute_height(width, minimal)

        Parameters width (int) –
        Return type int
    compute_width(minimal)

        Return type int
    paint(canvas)
    property text

```

klovve.drivers.curses.viwid.widgets.list module

```

class klovve.drivers.curses.viwid.widgets.list.List(**kwargs)
    Bases: viwid.widgets.box.Box
    _keyboard_event(event)
    _mouse_click_event(event)
    property class_style_name
    property focusable
    property items
    property on_selection_activated
    property selected_item_index

class klovve.drivers.curses.viwid.widgets.list.ListRow(**kwargs)
    Bases: viwid.widgets.label.Label
    property class_style_name
    property is_selected

```

klovve.drivers.curses.viwid.widgets.progress_bar module

```

class klovve.drivers.curses.viwid.widgets.progress_bar.ProgressBar(**kwargs)
    Bases: viwid.widgets.label.Label
    property class_style_name
    compute_height(width, minimal)
    compute_width(minimal)
    paint(canvas)

```

property value

klovve.drivers.curses.viwid.widgets.radio_button module

```
class klovve.drivers.curses.viwid.widgets.radio_button.RadioButton(**kwargs)
    Bases: viwid.widgets.button.Button
```

klovve.drivers.curses.viwid.widgets.scrollable module

```
class klovve.drivers.curses.viwid.widgets.scrollable.Scrollable(**kwargs)
    Bases: viwid.widgets.box.Box
    __correct_offset()
    __move_offset(x, y)
    _preview_keyboard_event(event)
    _preview_scroll_event(event)
    compute_height(width, minimal)
    compute_width(minimal)
    property focusable
    property horizontally_scrollable
    property item
    set_size(v)
    property vertically_scrollable
```

klovve.drivers.curses.viwid.widgets.widget module

```
class klovve.drivers.curses.viwid.widgets.widget.Alignment(value)
    Bases: enum.Enum
    An enumeration.
    CENTER = 3
    FILL = 4
    START = 1
    STOP = 2

klovve.drivers.curses.viwid.widgets.widget.ListProperty(item_added_func, item_removed_func,
    item_replaced_func=None)

klovve.drivers.curses.viwid.widgets.widget.Property(setter=None, /, *, default=<function
    <lambda>>)

class klovve.drivers.curses.viwid.widgets.widget.Widget(**kwargs)
    Bases: object
    ListProperty(item_removed_func, item_replaced_func=None)
```

```

class Parti(widget)
    Bases: object
    focussed()
    jumpto(frm, delta)
Property(*, default=<function <lambda>>())
__item_added(index, item)

    Parameters
        • index (int) –
        • item (object) –
    Return type None
__item_removed(index)

    Parameters index (int) –
    Return type None
property _children
_internal_mouse_click_event(event)

    Parameters event (viwid.event.input.MouseClickOngoingEvent) –
    Return type None
_keyboard_event(event)

    Parameters event (viwid.event.input.KeyboardOngoingEvent) –
    Return type None
_mouse_click_event(event)

    Parameters event (viwid.event.input.MouseClickOngoingEvent) –
    Return type None
_preview_internal_mouse_click_event(event)

    Parameters event (viwid.event.input.MouseClickOngoingEvent) –
    Return type None
_preview_keyboard_event(event)

    Parameters event (viwid.event.input.KeyboardOngoingEvent) –
    Return type None
_preview_mouse_click_event(event)

    Parameters event (viwid.event.input.MouseClickOngoingEvent) –

```

Return type None

`_preview_scroll_event(event)`

Parameters `event` (`viwid.event.input.ScrollOngoingEvent`) –

Return type None

`_scroll_event(event)`

Parameters `event` (`viwid.event.input.ScrollOngoingEvent`) –

Return type None

`alive()`

property `background`

`canvas()`

`child_at_position(xx, yy)`

property `class_style_name`

`compute_height(width, minimal)`

Parameters

- `width` (`int`) –
- `minimal` (`bool`) –

Return type `int`

`compute_height2(width, minimal)`

Parameters

- `width` (`int`) –
- `minimal` (`bool`) –

Return type `int`

`compute_width(minimal)`

Parameters `minimal` (`bool`) –

Return type `int`

`compute_width2(minimal)`

Parameters `minimal` (`bool`) –

Return type `int`

property `computed_horizontal_expand_greedily`

property `computed_is_disabled`

property `computed_vertical_expand_greedily`

dematerialize()

Return type None

property focusable

property foreground

property horizontal_alignment

property horizontal_expand_greedily

property inner_size: viwid.Size

property is_disabled

property layout

listen_property(*key, func*)

materialize(*screen*)

Return type None

property offset: viwid.Point

on_dematerialized()

Return type None

on_materialized()

Return type None

paint(*canvas*)

paint2(*parent_canvas=None*)

property parent: Optional[klovve.drivers.curses.viwid.widgets.widget.Widget]

property position: viwid.Point

request_repaint()

Return type None

request_resize()

Return type None

property root_style

property screen

set_inner_size(*value*)

Parameters *value* (viwid.Size) –

Return type None

set_layout(*value*)

set_offset(*value*)

Parameters **value** (`viwid.Point`) –

Return type `None`

set_parent(*value*)

Parameters **value** (Optional [`klovve.drivers.curses.viwid.widgets.widget.Widget`]) –

Return type `None`

set_position(*value*)

Parameters **value** (`viwid.Point`) –

Return type `None`

set_root_style(*v*)

set_size(*value*, *setinner=True*)

Parameters **value** (`viwid.Size`) –

Return type `None`

property **size**: `viwid.Size`

property **style_atom**

style_atom_by_name(*name*)

try_focus()

property **vertical_alignment**

property **vertical_expand_greedily**

```
class klovve.drivers.curses.viwid.widgets.widget._ListProperty(setter, item_added_func,  
                                                                item_removed_func,  
                                                                item_replaced_func=None)
```

Bases: `property`

_fget(*obj*)

_fset(*obj*, *value*)

```
class klovve.drivers.curses.viwid.widgets.widget._Property(setter, default=<function  
                                                            _Property.<lambda>>)
```

Bases: `property`

_fget(*obj*)

_fset(*obj*, *value*)

Submodules

klovve.drivers.curses.viwid.canvas module

class klovve.drivers.curses.viwid.canvas.**Canvas**

Bases: object

class **Color**(*r: float, g: float, b: float*)

Bases: object

Parameters

- *r* (*float*) –
- *g* (*float*) –
- *b* (*float*) –

Return type None

property *a*

b: float

static **from_string**(*s*)

Parameters *s* (*Union*[klovve.drivers.curses.viwid.canvas.Color, *str*]) –

Return type klovve.drivers.curses.viwid.canvas.Color

g: float

r: float

class **FullColor**(*rich: klovve.drivers.curses.viwid.canvas.Color, base: klovve.drivers.curses.viwid.canvas.Color*)

Bases: object

Parameters

- *rich* (klovve.drivers.curses.viwid.canvas.Color) –
- *base* (klovve.drivers.curses.viwid.canvas.Color) –

Return type None

base: klovve.drivers.curses.viwid.canvas.Color

static **from_string**(*s*)

Parameters *s* (*Union*[klovve.drivers.curses.viwid.canvas.Color, klovve.drivers.curses.viwid.canvas.FullColor, *str*]) –

Return type klovve.drivers.curses.viwid.canvas.FullColor

rich: klovve.drivers.curses.viwid.canvas.Color

cursor(*point*)

Parameters *point* (viwid.Point) –

Return type None

fill(*color, rectangle=None*)

Parameters

- **color** (*Union*[*klovve.drivers.curses.viwid.canvas.Color*, *klovve.drivers.curses.viwid.canvas.FullColor*, *str*]) –
- **rectangle** (*Optional*[*viwid.Rectangle*]) –

Return type *None***text**(*text*, *rectangle=None*)**Parameters** **rectangle** (*Optional*[*viwid.Rectangle*]) –**Return type** *None***class** *klovve.drivers.curses.viwid.canvas.Color*(*r: float*, *g: float*, *b: float*)Bases: *object***Parameters**

- **r** (*float*) –
- **g** (*float*) –
- **b** (*float*) –

Return type *None***property** **a****b:** *float***static** **from_string**(*s*)**Parameters** **s** (*Union*[*klovve.drivers.curses.viwid.canvas.Color*, *str*]) –**Return type** *klovve.drivers.curses.viwid.canvas.Color***g:** *float***r:** *float***class** *klovve.drivers.curses.viwid.canvas.FullColor*(*rich: klovve.drivers.curses.viwid.canvas.Color*,
base: klovve.drivers.curses.viwid.canvas.Color)Bases: *object***Parameters**

- **rich** (*klovve.drivers.curses.viwid.canvas.Color*) –
- **base** (*klovve.drivers.curses.viwid.canvas.Color*) –

Return type *None***base:** *klovve.drivers.curses.viwid.canvas.Color***static** **from_string**(*s*)**Parameters** **s** (*Union*[*klovve.drivers.curses.viwid.canvas.Color*, *klovve.drivers.curses.viwid.canvas.FullColor*, *str*]) –**Return type** *klovve.drivers.curses.viwid.canvas.FullColor***rich:** *klovve.drivers.curses.viwid.canvas.Color*

klovve.drivers.curses.viwid.data module

```

class klovve.drivers.curses.viwid.data.List(v=())
    Bases: collections.abc.MutableSequence
    __correct_index(i)

        Parameters i (int) –
        Return type int

    _abc_impl = <_abc._abc_data object>
    _add_observer(item_added_func, item_removed_func, item_replaced_func=None, *, initialize=True)

        Parameters initialize (bool) –
        Return type None

    _remove_observer(observer)

        Parameters observer (klovve.drivers.curses.viwid.data.ListObserver) –
        Return type None

    insert(i, v)
        S.insert(index, value) – insert value before index

    update(other)

class klovve.drivers.curses.viwid.data.ListObserver
    Bases: object
    item_added(index, item)

        Parameters
        • index (int) –
        • item (object) –
        Return type None

    item_removed(index)

        Parameters index (int) –
        Return type None

    item_replaced(index, item)

        Return type None

```

klovve.drivers.curses.viuid.layout module**class** klovve.drivers.curses.viuid.layout.**GridLayout**(*partitioning*)Bases: *klovve.drivers.curses.viuid.layout.Layout***Parameters** *partitioning* (*Callable*[[*list*], *list*]) –
__horizontally_process_partitioning(*minimal*)**Parameters** *partitioning* (*list*) –
__process_partitioning(*size*, *fuh=None*)
__stretch_axis_finally(*stretch_axis*, *target_size*)
__stretch_axis_minimals(*axis_minimal*, *target_size*)
__stretch_from_partitioning()**Parameters** *partitioning* (*list*) –
__trim_geometry(*position*, *size*, *total_size*)
__vertically_process_partitioning(*minimal*, *cols*)**Parameters**

- **partitioning** (*list*) –
- **cols** (*list*) –

compute_height(*width*, *minimal*)**Parameters**

- **width** (*int*) –
- **minimal** (*bool*) –

Return type *int***compute_width**(*minimal*)**Parameters** *minimal* (*bool*) –**Return type** *int***set_size**(*value*)**class** klovve.drivers.curses.viuid.layout.**Layout**Bases: *object***compute_height**(*width*, *minimal*)**Parameters** *minimal* (*bool*) –**compute_width**(*minimal*)**Parameters** *minimal* (*bool*) –**set_size**(*value*)

```
class klovve.drivers.curses.viwid.layout.NullLayout
    Bases: object
    compute_height(width, minimal)
    compute_width(minimal)
    set_size(value)
```

klovve.drivers.curses.viwid.loop module

```
class klovve.drivers.curses.viwid.loop.Loop(event_loop=None)
    Bases: object
    Parameters event_loop (Optional[asyncio.base_events.BaseEventLoop]) –
    property event_loop: asyncio.base_events.BaseEventLoop
    async run()

    Return type None
```

klovve.drivers.curses.viwid.screen module

```
class klovve.drivers.curses.viwid.screen.AnchorRootAlignmentPositioning(anchor_widget)
    Bases: klovve.drivers.curses.viwid.screen.RootAlignmentPositioning
    Parameters anchor_widget (viwid.widgets.widget.Widget) –
    _abc_impl = <_abc._abc_data object>
    get_x(widget, screen_size)
    get_y(widget, screen_size)

class klovve.drivers.curses.viwid.screen.AutoRootAlignmentSizing(minimal_width=False,
                                                                    minimal_height=False)
    Bases: klovve.drivers.curses.viwid.screen.RootAlignmentSizing
    _abc_impl = <_abc._abc_data object>
    get_height(width, widget, screen_size)
    get_width(widget, screen_size)

class klovve.drivers.curses.viwid.screen.ByScreenRootAlignmentSizing(width_fraction=0.5,
                                                                        height_fraction=0.5)
    Bases: klovve.drivers.curses.viwid.screen.RootAlignmentSizing
    _abc_impl = <_abc._abc_data object>
    get_height(width, widget, screen_size)
    get_width(widget, screen_size)

class klovve.drivers.curses.viwid.screen.CenterRootAlignmentPositioning
    Bases: klovve.drivers.curses.viwid.screen.RootAlignmentPositioning
    _abc_impl = <_abc._abc_data object>
    get_x(widget, screen_size)
```

```
    get_y(widget, screen_size)
class klovve.drivers.curses.viwid.screen.FixedRootAlignmentPositioning(x=0, y=0)
    Bases: klovve.drivers.curses.viwid.screen.RootAlignmentPositioning
    _abc_impl = <_abc._abc_data object>
    get_x(widget, screen_size)
    get_y(widget, screen_size)
class klovve.drivers.curses.viwid.screen.FixedRootAlignmentSizing(width=1, height=1)
    Bases: klovve.drivers.curses.viwid.screen.RootAlignmentSizing
    _abc_impl = <_abc._abc_data object>
    get_height(width, widget, screen_size)
    get_width(widget, screen_size)
class klovve.drivers.curses.viwid.screen.RootAlignment(horizontal_positioning, vertical_positioning,
    horizontal_sizing, vertical_sizing)
    Bases: object
    apply(widget)
```

Parameters widget (viwid.widgets.widget.Widget) –

```
class klovve.drivers.curses.viwid.screen.RootAlignmentPositioning
    Bases: abc.ABC
    _abc_impl = <_abc._abc_data object>
    abstract get_x(widget, screen_size)
```

Parameters

- widget (viwid.widgets.widget.Widget) –
- screen_size (viwid.Size) –

Return type int

```
abstract get_y(widget, screen_size)
```

Parameters

- widget (viwid.widgets.widget.Widget) –
- screen_size (viwid.Size) –

Return type int

```
class klovve.drivers.curses.viwid.screen.RootAlignmentSizing
    Bases: abc.ABC
    _abc_impl = <_abc._abc_data object>
    abstract get_height(width, widget, screen_size)
```

Parameters

- width (int) –

- **widget** (`viwid.widgets.widget.Widget`) –
- **screen_size** (`viwid.Size`) –

Return type `int`

abstract `get_width(widget, screen_size)`

Parameters

- **widget** (`viwid.widgets.widget.Widget`) –
- **screen_size** (`viwid.Size`) –

Return type `int`

class `klovve.drivers.curses.viwid.screen.Screen(driver)`

Bases: `object`

Parameters **driver** (`viwid.drivers.driver.Driver`) –

add_root (`widget, alignment=None, *, root_style_name='main'`)

Parameters

- **widget** (`viwid.widgets.widget.Widget`) –
- **alignment** (`Optional[RootAlignment]`) –
- **root_style_name** (`str`) –

Return type `TODO`

property `bottommost: Optional[viwid.widgets.widget.Widget]`

property `driver`

abstract property `focussed_widget: Optional[viwid.widgets.widget.Widget]`

static `handle_event(widget, ongoing_event)`

Parameters **ongoing_event** (`viwid.event.base.OngoingEvent`) –

popup (`widget, alignment=None, *, root_style_name='popup'`)

Parameters

- **widget** (`viwid.widgets.widget.Widget`) –
- **alignment** (`Optional[RootAlignment]`) –
- **root_style_name** (`str`) –

Return type `TODO`

property `roots: Iterable[viwid.widgets.widget.Widget]`

property `roots_and_alignments: Iterable[tuple]`

abstract property `size: viwid.Size`

property `style: viwid.style.Style`

property `topmost: Optional[viwid.widgets.widget.Widget]`

translate_coordinates(*point*, *, *old_origin*=None, *new_origin*=None)

Parameters

- **point** (`viwid.Point`) –
- **old_origin** (*Optional* [`viwid.widgets.widget.Widget`]) –
- **new_origin** (*Optional* [`viwid.widgets.widget.Widget`]) –

Return type `viwid.Point`

translate_coordinates_with_visibility_check(*point*, *, *old_origin*=None, *new_origin*=None)

Parameters

- **point** (`viwid.Point`) –
- **old_origin** (*Optional* [`viwid.widgets.widget.Widget`]) –
- **new_origin** (*Optional* [`viwid.widgets.widget.Widget`]) –

Return type `tuple`

update()

Return type `None`

klovve.drivers.curses.viwid.style module

class `klovve.drivers.curses.viwid.style.ClassStyle`(*, *normal*, *focussed*, *disabled*)

Bases: `object`

Parameters

- **normal** (`klovve.drivers.curses.viwid.style.StyleAtom`) –
- **focussed** (`klovve.drivers.curses.viwid.style.StyleAtom`) –
- **disabled** (`klovve.drivers.curses.viwid.style.StyleAtom`) –

class `klovve.drivers.curses.viwid.style.RootStyle`(*, *root*, *plain*, *control*, *entry*, *list*, *list_item*, *selected*, *progress_done*, *progress_not_done*)

Bases: `object`

Parameters

- **root** (`klovve.drivers.curses.viwid.style.ClassStyle`) –
- **plain** (`klovve.drivers.curses.viwid.style.ClassStyle`) –
- **control** (`klovve.drivers.curses.viwid.style.ClassStyle`) –
- **entry** (`klovve.drivers.curses.viwid.style.ClassStyle`) –
- **list** (`klovve.drivers.curses.viwid.style.ClassStyle`) –
- **list_item** (`klovve.drivers.curses.viwid.style.ClassStyle`) –
- **selected** (`klovve.drivers.curses.viwid.style.ClassStyle`) –
- **progress_done** (`klovve.drivers.curses.viwid.style.ClassStyle`) –
- **progress_not_done** (`klovve.drivers.curses.viwid.style.ClassStyle`) –

```
class klovve.drivers.curses.viwid.style.Style(*, main, popup)
```

Bases: object

Parameters

- **main** (klovve.drivers.curses.viwid.style.RootStyle) –
- **popup** (klovve.drivers.curses.viwid.style.RootStyle) –

```
class klovve.drivers.curses.viwid.style.StyleAtom(*, foreground, background=None)
```

Bases: object

klovve.drivers.gtk package

```
class klovve.drivers.gtk.Driver
```

Bases: [klovve.drivers.Driver](#)

_create_mainloop()

static name()

static rank()

show_window(window)

```
class klovve.drivers.gtk.EventLoop
```

Bases: [asyncio.unix_events._UnixSelectorEventLoop](#)

_call_soon(callback, args, context)

call_at(when, callback, *args, context=None)

Like [call_later](#)(), but uses an absolute time.

Absolute time corresponds to the event loop's [time\(\)](#) method.

create_task(coro, *, name=None)

Schedule a coroutine object.

Return a task object.

```
class klovve.drivers.gtk.View(model, view_factory)
```

Bases: [Generic\[klovve.view._TGo\]](#)

Parameters

- **model** (klovve.view._TGo) –
- **view_factory** ([ViewFactory](#)) –

__bind(* , gprop_name, value_holder)

Parameters value_holder ([klovve.data.value_holder.ValueHolder](#)) –

static bind(gobj, gprop_name, value)

Parameters value (Any) –

static gtk_new(viewtype, **kwargs)

```
class klovve.drivers.gtk._Selector(context)
```

Bases: [selectors._BaseSelectorImpl](#)

_abc_impl = <_abc._abc_data object>

close()

Close the selector.

This must be called to make sure that any underlying resource is freed.

interrupt_glib_mainloop()**register**(*fileobj*, *events*, *data=None*)

Register a file object.

Parameters: *fileobj* – file object or file descriptor *events* – events to monitor (bitwise mask of EVENT_READ|EVENT_WRITE) *data* – attached data

Returns: SelectorKey instance

Raises: ValueError if *events* is invalid KeyError if *fileobj* is already registered OSError if *fileobj* is closed or otherwise is unacceptable to

the underlying system call (if a system call is made)

Note: OSError may or may not be raised

select(*timeout=None*)

Perform the actual selection, until some monitored file objects are ready or a timeout expires.

Parameters: *timeout* – if *timeout* > 0, this specifies the maximum wait time, in

seconds if *timeout* <= 0, the select() call won't block, and will report the currently ready file objects if *timeout* is None, select() will block until a monitored file object becomes ready

Returns: list of (key, events) for ready file objects *events* is a bitwise mask of EVENT_READ|EVENT_WRITE

unregister(*fileobj*)

Unregister a file object.

Parameters: *fileobj* – file object or file descriptor

Returns: SelectorKey instance

Raises: KeyError if *fileobj* is not registered

Note: If *fileobj* is registered but has since been closed this does *not* raise OSError (even if the wrapped syscall does)

class klovve.drivers.gtk._Source(*args, **kwargs)

Bases: gi.overrides.GLib.Source

Constructors

Source()

new(source_funcs:GLib.SourceFuncs, struct_size:int) -> GLib.Source

EVENT_T0_GLIB = dict_items([(1, <flags G_IO_IN of type GLib.IOCondition>), (2, <flags G_IO_OUT of type GLib.IOCondition>)])

add_fd(*fd*, *events*)

check()

dispatch(*callback*, *args*)

get_events(*fd*)

prepare()

```
remove_fd(fd)
```

```
klovve.drivers.gtk.children(widget)
```

Subpackages

klovve.drivers.gtk.views package

Subpackages

klovve.drivers.gtk.views._gtk_private package

Submodules

klovve.drivers.gtk.views._gtk_private.box module

```
class klovve.drivers.gtk.views._gtk_private.box.View(model, view_factory)
```

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.view._TGo) –
- **view_factory** (ViewFactory) –

```
_orientation()
```

```
get_native(model, model_bind)
```

klovve.drivers.gtk.views.form package

```
class klovve.drivers.gtk.views.form.View(model, view_factory)
```

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.pieces.form.Model) –
- **view_factory** (ViewFactory) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.form.Model
```

Submodules

klovve.drivers.gtk.views.form.section module

```
class klovve.drivers.gtk.views.form.section.View(model, view_factory)
```

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.pieces.form.section.Model) –
- **view_factory** (ViewFactory) –

```
get_native(model, model_bind)
model: klovve.pieces.form.section.Model
```

klovve.drivers.gtk.views.interact package

Submodules

klovve.drivers.gtk.views.interact.abstract module

```
class klovve.drivers.gtk.views.interact.abstract.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.interact.abstract.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
model: klovve.pieces.interact.abstract.Model
```

klovve.drivers.gtk.views.property_panel package

```
class klovve.drivers.gtk.views.property_panel.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.property_panel.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
model: klovve.pieces.property_panel.Model
```

klovve.drivers.gtk.views.tabbed package

```
class klovve.drivers.gtk.views.tabbed.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.tabbed.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
model: klovve.pieces.tabbed.Model
```

Submodules

klovve.drivers.gtk.views.tabbed.tab module

```
class klovve.drivers.gtk.views.tabbed.tab.View(*args, **kwargs)
    Bases: klovve.view.BaseView, Generic[klovve.view._TGo]
    get_composition(model, model_bind, pieces)
    model: klovve.pieces.tabbed.tab.Model
```

klovve.drivers.gtk.views.viewer package

Submodules

klovve.drivers.gtk.views.viewer.image module

```
class klovve.drivers.gtk.views.viewer.image.Image(**kwargs)
    Bases: gi.repository.Gtk.Overlay
    __ensure_config_correct()
    __refresh(widget=None, *__, force=False)
    _refresch()
    display_coordinates_to_image_coordinates(x, y)
```

Parameters

- *x* (*float*) –
- *y* (*float*) –

Return type

```
tuple
property display_height: int
property display_width: int
do_get_property(pspec)
do_set_property(pspec, value)
image_coordinates_to_display_coordinates(x, y)
```

Parameters

- *x* (*float*) –
- *y* (*float*) –

Return type

```
image_offset_x
image_offset_y
property original_image_height: int
property original_image_width: int
```

pixbuf

zoom_factor

zoom_in(*by=0.1, *, center_x=0.5, center_y=0.5*)

Parameters

- **by** (*float*) –
- **center_x** (*float*) –
- **center_y** (*float*) –

Return type None

zoom_out(*by=0.1, *, center_x=0.5, center_y=0.5*)

Parameters

- **by** (*float*) –
- **center_x** (*float*) –
- **center_y** (*float*) –

Return type None

class klovve.drivers.gtk.views.viewer.image.**Outer**(***kwargs*)

Bases: `gi.overrides.Gtk.Widget`

__on_mouse_button_pressed(*_, n_press, x, y*)

__on_mouse_button_released(*_, n_press, x, y*)

__on_mouse_moved(*_, x, y*)

__on_mouse_wheel(*_, dx, dy*)

do_get_property(*pspec*)

do_measure(*orientation, for_size*)

measure(*self, orientation:Gtk.Orientation, for_size:int*) -> *minimum:int, natural:int, minimum_baseline:int, natural_baseline:int*

do_set_property(*pspec, value*)

do_size_allocate(*width, height, _*)

size_allocate(*self, width:int, height:int, baseline:int*)

pixbuf

set_source(*source*)

Parameters **source** (*str*) –

source

class klovve.drivers.gtk.views.viewer.image.**View**(*model, view_factory*)

Bases: `Generic[klovve.view._TGo]`

Parameters

- **model** (`klovve.pieces.viewer.image.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
model: klovve.pieces.viewer.image.Model
```

klovve.drivers.gtk.views.viewer.pdf module

```
class klovve.drivers.gtk.views.viewer.pdf.View(model, view_factory)
Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.viewer.pdf.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
model: klovve.pieces.viewer.pdf.Model
```

Submodules

klovve.drivers.gtk.views.busy_animation module

```
class klovve.drivers.gtk.views.busy_animation.Model(**kwargs)
Bases: klovve.pieces.busy_animation.Model
```

property **gtk_orientation**

property **spinner_size**

```
class klovve.drivers.gtk.views.busy_animation.View(model, view_factory)
Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.drivers.gtk.views.busy_animation.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
model: klovve.drivers.gtk.views.busy_animation.Model
```

klovve.drivers.gtk.views.button module

```
class klovve.drivers.gtk.views.button.Context(fabric, button)
Bases: object
```

async **dialog**(*view*)

error_message_for_exceptions(**exception_types*)

property **fabric**

```
class klovve.drivers.gtk.views.button.View(model, view_factory)
Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.button.Model*) –

- **view_factory** (*ViewFactory*) –

get_native(*model*, *model_bind*)

model: *klovve.pieces.button.Model*

klovve.drivers.gtk.views.checkable module

class *klovve.drivers.gtk.views.checkable.View*(*model*, *view_factory*)
Bases: *Generic*[*klovve.view._TGo*]

Parameters

- **model** (*klovve.pieces.checkable.Model*) –
- **view_factory** (*ViewFactory*) –

get_native(*model*, *model_bind*)

model: *klovve.pieces.checkable.Model*

klovve.drivers.gtk.views.disableable module

class *klovve.drivers.gtk.views.disableable.View*(*model*, *view_factory*)
Bases: *Generic*[*klovve.view._TGo*]

Parameters

- **model** (*klovve.pieces.disableable.Model*) –
- **view_factory** (*ViewFactory*) –

get_native(*model*, *model_bind*)

model: *klovve.pieces.disableable.Model*

klovve.drivers.gtk.views.dropdown module

class *klovve.drivers.gtk.views.dropdown.View*(*model*, *view_factory*)
Bases: *Generic*[*klovve.view._TGo*]

Parameters

- **model** (*klovve.pieces.dropdown.Model*) –
- **view_factory** (*ViewFactory*) –

get_native(*model*, *model_bind*)

model: *klovve.pieces.dropdown.Model*

klovve.drivers.gtk.views.dual module

```
class klovve.drivers.gtk.views.dual.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.dual.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.dual.Model
```

klovve.drivers.gtk.views.formatted_text module

```
class klovve.drivers.gtk.views.formatted_text.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.formatted_text.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.formatted_text.Model
```

klovve.drivers.gtk.views.header module

```
class klovve.drivers.gtk.views.header.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.header.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.header.Model
```

klovve.drivers.gtk.views.headered_panel module

```
class klovve.drivers.gtk.views.headered_panel.Model(**kwargs)
    Bases: klovve.pieces.headered_panel.Model
```

```
property title_label_css_classes
```

```
class klovve.drivers.gtk.views.headered_panel.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (*klovve.pieces.headered_panel.Model*) –
- **view_factory** (*ViewFactory*) –

```
get_native(model, model_bind)
model: klovve.pieces.headered_panel.Model
```

klovve.drivers.gtk.views.horizontal_box module

```
class klovve.drivers.gtk.views.horizontal_box.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.horizontal_box.Model) –
        • view_factory (ViewFactory) –

    _orientation()
    model: klovve.pieces.horizontal_box.Model
```

klovve.drivers.gtk.views.label module

```
class klovve.drivers.gtk.views.label.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.label.Model) –
        • view_factory (ViewFactory) –

    get_native(model, model_bind)
    model: klovve.pieces.label.Model
```

klovve.drivers.gtk.views.list module

```
class klovve.drivers.gtk.views.list.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.list.Model) –
        • view_factory (ViewFactory) –

    get_native(model, model_bind)
    model: klovve.pieces.list.Model
```

klovve.drivers.gtk.views.log_pager module

```
class klovve.drivers.gtk.views.log_pager.View(*args, **kwargs)
    Bases: Generic[klovve.view._TGo]
    __inner_size_changed(widget, *_ )
    get_native(model, model_bind)
    model: klovve.pieces.log_pager.Model
klovve.drivers.gtk.views.log_pager._time_text(d)
```

klovve.drivers.gtk.views.placeholder module

```
class klovve.drivers.gtk.views.placeholder.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.placeholder.Model) –
        • view_factory (ViewFactory) –
    get_native(model, model_bind)
    model: klovve.pieces.placeholder.Model
```

klovve.drivers.gtk.views.progress module

```
class klovve.drivers.gtk.views.progress.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.progress.Model) –
        • view_factory (ViewFactory) –
    get_native(model, model_bind)
    model: klovve.pieces.progress.Model
```

klovve.drivers.gtk.views.scrollable module

```
class klovve.drivers.gtk.views.scrollable.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.scrollable.Model) –
        • view_factory (ViewFactory) –
    get_native(model, model_bind)
    model: klovve.pieces.scrollable.Model
```

klovve.drivers.gtk.views.slider module

```
class klovve.drivers.gtk.views.slider.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.slider.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.slider.Model
```

klovve.drivers.gtk.views.split module

```
class klovve.drivers.gtk.views.split.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.split.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.split.Model
```

klovve.drivers.gtk.views.text_field module

```
class klovve.drivers.gtk.views.text_field.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.text_field.Model`) –
- **view_factory** (`ViewFactory`) –

```
get_native(model, model_bind)
```

```
model: klovve.pieces.text_field.Model
```

klovve.drivers.gtk.views.vertical_box module

```
class klovve.drivers.gtk.views.vertical_box.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
```

Parameters

- **model** (`klovve.pieces.vertical_box.Model`) –
- **view_factory** (`ViewFactory`) –

```
_orientation()
```

```
model: klovve.pieces.vertical_box.Model
```

klovve.drivers.gtk.views.window module

```

class klovve.drivers.gtk.views.window.Context(fabric, main_window)
    Bases: object
        async dialog(view)
        error_message_for_exceptions(*exception_types)
        property fabric
class klovve.drivers.gtk.views.window.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
        Parameters
            • model (klovve.pieces.window.Model) –
            • view_factory (ViewFactory) –
        get_native(model, model_bind)
        model: klovve.pieces.window.Model

```

klovve.pieces package**Subpackages****klovve.pieces.form package**

```

class klovve.pieces.form.Model(**kwargs)
    Bases: klovve.data.model.Model
        property items
class klovve.pieces.form.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
        Parameters
            • model (klovve.pieces.form.Model) –
            • view_factory (ViewFactory) –
        model: klovve.pieces.form.Model

```

Submodules**klovve.pieces.form.section module**

```

class klovve.pieces.form.section.Model(**kwargs)
    Bases: klovve.data.model.Model
        property item
        property label
class klovve.pieces.form.section.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

```

Parameters

- **model** (`klovve.pieces.form.section.Model`) –
- **view_factory** (`ViewFactory`) –

model: `klovve.pieces.form.section.Model`

klovve.pieces.interact package

class `klovve.pieces.interact.Model`(**kwargs)

Bases: `klovve.data.model.Model`

property `answer`

property `is_answered`

set_answer(*answer*)

Submodules**klovve.pieces.interact.abstract module**

class `klovve.pieces.interact.abstract.Model`(**kwargs)

Bases: `klovve.pieces.interact.Model`

property `get_answer_func`

property `inner_view`

property `message`

property `triggers`

class `klovve.pieces.interact.abstract.View`(*model*, *view_factory*)

Bases: `Generic[klovve.view._TGo]`

Parameters

- **model** (`klovve.pieces.interact.abstract.Model`) –
- **view_factory** (`ViewFactory`) –

model: `klovve.pieces.interact.abstract.Model`

klovve.pieces.interact.message module

class `klovve.pieces.interact.message.Model`(**kwargs)

Bases: `klovve.pieces.interact.Model`

property `message`

class `klovve.pieces.interact.message.View`(*args, **kwargs)

Bases: `klovve.view.ComposedView[klovve.pieces.interact.message.Model]`

get_composition(*model*, *model_bind*, *pieces*)

klovve.pieces.interact.textline module

```

class klovve.pieces.interact.textline.Model(**kwargs)
    Bases: klovve.pieces.interact.Model

    property message

    property suggestion

class klovve.pieces.interact.textline.View(*args, **kwargs)
    Bases: klovve.view.ComposedView[klovve.pieces.interact.textline.Model]

    class TModel(**kwargs)
        Bases: klovve.data.model.Model

        property value

    get_composition(model, model_bind, pieces)

```

klovve.pieces.interact.triggers module

```

class klovve.pieces.interact.triggers.Model(**kwargs)
    Bases: klovve.pieces.interact.Model

    property message

    property triggers

class klovve.pieces.interact.triggers.View(*args, **kwargs)
    Bases: klovve.view.BaseView, Generic[klovve.view._TGo]

    get_composition(model, model_bind, pieces)

    model: klovve.pieces.interact.triggers.Model

```

klovve.pieces.interact.yesno module

```

class klovve.pieces.interact.yesno.Model(**kwargs)
    Bases: klovve.pieces.interact.Model

    property message

class klovve.pieces.interact.yesno.View(*args, **kwargs)
    Bases: klovve.view.ComposedView[klovve.pieces.interact.yesno.Model]

    get_composition(model, model_bind, pieces)

```

klovve.pieces.log_pager package

```

class klovve.pieces.log_pager.Model(**kwargs)
    Bases: klovve.data.model.Model

    property boff

    property entries

class klovve.pieces.log_pager.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters

```

- **model** (`klovve.pieces.log_pager.Model`) –
- **view_factory** (`ViewFactory`) –

model: `klovve.pieces.log_pager.Model`

Submodules

`klovve.pieces.log_pager.entry` module

```
class klovve.pieces.log_pager.entry.Model(**kwargs)
    Bases: klovve.data.model.Model

    property began_at
    property ended_at
    property entries
    property message
    property only_single_time
    property only_verbose

class klovve.pieces.log_pager.entry.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.log_pager.entry.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.log_pager.entry.Model
```

`klovve.pieces.property_panel` package

```
class klovve.pieces.property_panel.Model(**kwargs)
    Bases: klovve.data.model.Model

    property entries
    property values

class klovve.pieces.property_panel.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.property_panel.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.property_panel.Model
```

Submodules

klovve.pieces.property_panel.entry module

```
class klovve.pieces.property_panel.entry.Model(**kwargs)
    Bases: klovve.data.model.Model

    property label
    property name

class klovve.pieces.property_panel.entry.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.property_panel.entry.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.property_panel.entry.Model
```

klovve.pieces.tabbed package

```
class klovve.pieces.tabbed.Model(**kwargs)
    Bases: klovve.data.model.Model

    property items

class klovve.pieces.tabbed.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.tabbed.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.tabbed.Model
```

Submodules

klovve.pieces.tabbed.tab module

```
class klovve.pieces.tabbed.tab.Model(**kwargs)
    Bases: klovve.data.model.Model

    property item
    property label

class klovve.pieces.tabbed.tab.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.tabbed.tab.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.tabbed.tab.Model
```

klovve.pieces.viewer package

Submodules

klovve.pieces.viewer.image module

```
class klovve.pieces.viewer.image.Model(**kwargs)
    Bases: klovve.data.model.Model

    property source

class klovve.pieces.viewer.image.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.viewer.image.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.viewer.image.Model
```

klovve.pieces.viewer.pdf module

```
class klovve.pieces.viewer.pdf.Model(**kwargs)
    Bases: klovve.data.model.Model

    property path

class klovve.pieces.viewer.pdf.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.viewer.pdf.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.viewer.pdf.Model
```

Submodules

klovve.pieces.busy_animation module

```
class klovve.pieces.busy_animation.Model(**kwargs)
    Bases: klovve.data.model.Model

    class Orientation(value)
        Bases: enum.Enum

        An enumeration.

        HORIZONTAL = 1
        VERTICAL = 2

    class Size(value)
        Bases: enum.Enum

        An enumeration.
```

```

    EXTRA_LARGE = 5
    LARGE = 4
    MEDIUM = 3
    SMALL = 2
    TINY = 1
    property orientation
    property size
    property text
class klovve.pieces.busy_animation.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
        Parameters
            • model (klovve.pieces.busy_animation.Model) –
            • view_factory (ViewFactory) –
    model: klovve.pieces.busy_animation.Model

```

klovve.pieces.button module

```

class klovve.pieces.button.Model(**kwargs)
    Bases: klovve.data.model.Model
    property action
    property text
class klovve.pieces.button.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
        Parameters
            • model (klovve.pieces.button.Model) –
            • view_factory (ViewFactory) –
    model: klovve.pieces.button.Model

```

klovve.pieces.checkable module

```

class klovve.pieces.checkable.Model(**kwargs)
    Bases: klovve.data.model.Model
    property is_checked
    property text
class klovve.pieces.checkable.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
        Parameters
            • model (klovve.pieces.checkable.Model) –
            • view_factory (ViewFactory) –

```

model: *klovve.pieces.checkable.Model*

klovve.pieces.disableable module

class klovve.pieces.disableable.**Model**(**kwargs)

Bases: *klovve.data.model.Model*

property is_disabled

property item

class klovve.pieces.disableable.**View**(model, view_factory)

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.pieces.disableable.Model) –
- **view_factory** (ViewFactory) –

model: *klovve.pieces.disableable.Model*

klovve.pieces.dropdown module

class klovve.pieces.dropdown.**Model**(**kwargs)

Bases: *klovve.data.model.Model*

property item_label_func

property items

property selected_item

class klovve.pieces.dropdown.**View**(model, view_factory)

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.pieces.dropdown.Model) –
- **view_factory** (ViewFactory) –

model: *klovve.pieces.dropdown.Model*

klovve.pieces.dual module

class klovve.pieces.dual.**Model**(**kwargs)

Bases: *klovve.data.model.Model*

property main_item

property side_item

class klovve.pieces.dual.**View**(model, view_factory)

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.pieces.dual.Model) –
- **view_factory** (ViewFactory) –

model: *klovve.pieces.dual.Model*

klovve.pieces.formatted_text module

class klovve.pieces.formatted_text.**Model**(**kwargs)

Bases: *klovve.data.model.Model*

property text

class klovve.pieces.formatted_text.**View**(model, view_factory)

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.pieces.formatted_text.Model) –
- **view_factory** (ViewFactory) –

model: *klovve.pieces.formatted_text.Model*

klovve.pieces.header module

class klovve.pieces.header.**Model**(**kwargs)

Bases: *klovve.data.model.Model*

property text

class klovve.pieces.header.**View**(model, view_factory)

Bases: Generic[klovve.view._TGo]

Parameters

- **model** (klovve.pieces.header.Model) –
- **view_factory** (ViewFactory) –

model: *klovve.pieces.header.Model*

klovve.pieces.headered_panel module

class klovve.pieces.headered_panel.**Model**(**kwargs)

Bases: *klovve.data.model.Model*

class **State**(value)

Bases: enum.Enum

An enumeration.

BUSY = 1

FAILED = 4

SUCCESSFUL = 2

SUCCESSFUL_WITH_WARNING = 3

property actions

property body

property progress

property state

property title

property title_secondary_items

```
class klovve.pieces.headered_panel.View(model, view_factory)
```

Bases: `Generic[klovve.view._TGo]`

Parameters

- `model` (`klovve.pieces.headered_panel.Model`) –
- `view_factory` (`ViewFactory`) –

`model`: `klovve.pieces.headered_panel.Model`

`klovve.pieces.horizontal_box` module

```
class klovve.pieces.horizontal_box.Model(**kwargs)
```

Bases: `klovve.data.model.Model`

property items

```
class klovve.pieces.horizontal_box.View(model, view_factory)
```

Bases: `Generic[klovve.view._TGo]`

Parameters

- `model` (`klovve.pieces.horizontal_box.Model`) –
- `view_factory` (`ViewFactory`) –

`model`: `klovve.pieces.horizontal_box.Model`

`klovve.pieces.label` module

```
class klovve.pieces.label.Model(**kwargs)
```

Bases: `klovve.data.model.Model`

property text

```
class klovve.pieces.label.View(model, view_factory)
```

Bases: `Generic[klovve.view._TGo]`

Parameters

- `model` (`klovve.pieces.label.Model`) –
- `view_factory` (`ViewFactory`) –

`model`: `klovve.pieces.label.Model`

klovve.pieces.list module

```

class klovve.pieces.list.Model(**kwargs)
    Bases: klovve.data.model.Model
    property allows_multiselect
    property barz
        @item_label_func.default def item_label_func(self):
            return lambda x: str(x)
    property item_actions
    property item_label_func
    property items
    property list_actions
    property selected_item
    property selected_items

class klovve.pieces.list.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]
    Parameters
        • model (klovve.pieces.list.Model) –
        • view_factory (ViewFactory) –
    model: klovve.pieces.list.Model

```

klovve.pieces.list_panel module

```

class klovve.pieces.list_panel.Model(**kwargs)
    Bases: klovve.data.model.Model
    property barz
    property body
    property item_actions
    property item_label_func
    property items
    property list_actions
    property selected_item

class klovve.pieces.list_panel.View(*args, **kwargs)
    Bases: klovve.view.ComposedView[klovve.pieces.list_panel.Model]
    get_composition(model, model_bind, pieces)

```

klovve.pieces.placeholder module

```
class klovve.pieces.placeholder.Model(**kwargs)
    Bases: klovve.data.model.Model

    property item

class klovve.pieces.placeholder.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.placeholder.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.placeholder.Model
```

klovve.pieces.progress module

```
class klovve.pieces.progress.Model(**kwargs)
    Bases: klovve.data.model.Model

    property value

class klovve.pieces.progress.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.progress.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.progress.Model
```

klovve.pieces.scrollable module

```
class klovve.pieces.scrollable.Model(**kwargs)
    Bases: klovve.data.model.Model

    property item

class klovve.pieces.scrollable.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.scrollable.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.scrollable.Model
```

klovve.pieces.slider module

```
class klovve.pieces.slider.Model(**kwargs)
    Bases: klovve.data.model.Model

    property max_value
    property min_value
    property step_value
    property value

class klovve.pieces.slider.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.slider.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.slider.Model
```

klovve.pieces.split module

```
class klovve.pieces.split.Model(**kwargs)
    Bases: klovve.data.model.Model

    property item1
    property item2

class klovve.pieces.split.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.split.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.split.Model
```

klovve.pieces.text_field module

```
class klovve.pieces.text_field.Model(**kwargs)
    Bases: klovve.data.model.Model

    property hint_text
    property text

class klovve.pieces.text_field.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.text_field.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.text_field.Model
```

klovve.pieces.vertical_box module

```
class klovve.pieces.vertical_box.Model(**kwargs)
    Bases: klovve.data.model.Model

    property items

class klovve.pieces.vertical_box.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.vertical_box.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.vertical_box.Model
```

klovve.pieces.window module

```
class klovve.pieces.window.Model(**kwargs)
    Bases: klovve.data.model.Model

    property actions
    property body
    property close_func
    property closing
    property icon
    property is_closed
    property name
    property title
    property title2

class klovve.pieces.window.View(model, view_factory)
    Bases: Generic[klovve.view._TGo]

    Parameters
        • model (klovve.pieces.window.Model) –
        • view_factory (ViewFactory) –

    model: klovve.pieces.window.Model
```

4.1.2 Submodules

4.1.3 klovve.application module

class klovve.application.**Application**

Bases: abc.ABC

_abc_impl = <_abc._abc_data object>

abstract async sleep_until_stopped()

Return type None

abstract start()

Return type None

class klovve.application.**ApplicationInternal**(*, driver, view_spec, type_loader)

Bases: *klovve.application.Application*

Parameters

- **driver** (*klovve.drivers.Driver*) –
- **view_spec** (*klovve.view._TVViewSpec*) –
- **type_loader** (*klovve.type_loader.TypeLoader*) –

__running_apps_changed_event = None

__running_loop()

_abc_impl = <_abc._abc_data object>

static _running_apps_changed_event()

run()

running_apps = []

async sleep_until_stopped()

async start()

class klovve.application.**MainloopObjectProxy**(obj)

Bases: object

klovve.application.**call_with_kwargs**(func, **kwargs)

klovve.application.**call_with_kwargs_maybe_async**(func, mainloop, **kwargs)

klovve.application.**create_app**(view_spec, *, type_loader=None)

Parameters

- **view_spec** (*klovve.view._TVViewSpec*) –
- **type_loader** (*Optional[klovve.type_loader.TypeLoader]*) –

Return type *Application*

klovve.application.**in_mainloop**(func)

klovve.application.**in_mainloop2**(func)

4.1.4 klovve.debug module

```
class klovve.debug._Memory
    Bases: object
        _Memory__change_counter(kind, by)

            Parameters
                • kind (str) –
                • by (int) –
            Return type None
        _Memory__decrement_counter(kind)

            Parameters kind (str) –
            Return type None
        _Memory__increment_counter(kind)

            Parameters kind (str) –
            Return type None
    property current
    new_object_created(obj, kind)

        Parameters kind (str) –
    property since_startup
klovve.debug._print_loop()
```

4.1.5 klovve.threading_ module

```
exception klovve.threading_.ThreadingError
    Bases: Exception
klovve.threading_.verify_correct_thread()
```

4.1.6 klovve.type_loader module

```
class klovve.type_loader.DefaultTypeLoader(additional_packages)
    Bases: klovve.type\_loader.TypeLoader
        Parameters additional_packages (Iterable[str]) –
    _abc_impl = <_abc._abc_data object>
    driver_type()
    model_type(name_tuple, *, driver)
    view_base_type(name_tuple)
```

```

    view_type(name_tuple, *, driver)

class klovve.type_loader.TypeLoader
    Bases: abc.ABC
    _abc_impl = <_abc._abc_data object>
    abstract driver_type()

        Return type Type[klovve.drivers.Driver]
    abstract model_type(name_tuple)

        Parameters name_tuple (Iterable[str]) –
        Return type Type[klovve.Model]
    abstract view_base_type(name_tuple)

        Parameters name_tuple (Iterable[str]) –
        Return type Type[klovve.View]
    abstract view_type(name_tuple, *, driver)

        Parameters
        • name_tuple (Iterable[str]) –
        • driver (klovve.drivers.Driver) –
        Return type Type[klovve.View]
klovve.type_loader._find_modules(name_tuple, kind, additional_packages)

    Parameters
    • name_tuple (Iterable[str]) –
    • kind (str) –
    • additional_packages (Iterable[str]) –
klovve.type_loader._try_find_type_in_module(module_name, typename)

    Parameters
    • module_name (str) –
    • typename (str) –
klovve.type_loader._try_find_type_per_name_tuple(name_tuple, kind, typename, additional_packages)

    Parameters
    • name_tuple (Iterable[str]) –
    • kind (str) –
    • typename (str) –
    • additional_packages (Iterable[str]) –

```

4.1.7 klovve.view module

class `klovve.view.BaseView(model, view_factory)`
Bases: `Generic[klovve.view._TGo]`

Parameters

- **model** (`klovve.view._TGo`) –
- **view_factory** (`ViewFactory`) –

get_native(*model, model_bind*)

Parameters

- **model** (`klovve.view._TGo`) –
- **model_bind** (`klovve.view._TGo`) –

Return type `object`

get_native_stuff()

class `klovve.view.BindFactory(model, twoway=True, converter_in=None, converter_out=None)`
Bases: `object`

class `klovve.view.ComposedView(*args, **kwargs)`
Bases: `klovve.view.BaseView`, `Generic[klovve.view._TGo]`

computed(*func*)

Return type `klovve.data.value_holder.ValueHolder`

get_composition(*model, model_bind, pieces*)

Parameters

- **model_bind** (`klovve.view._TGo`) –
- **pieces** (`klovve.view.ViewFactory`) –

Return type `klovve.view.ViewTreeNode`

get_native(*model, model_bind*)

exception `klovve.view.ViewError`
Bases: `Exception`

class `klovve.view.ViewFactory(type_loader, driver, TODO)`
Bases: `object`

Parameters

- **type_loader** (`klovve.type_loader.TypeLoader`) –
- **driver** (`klovve.drivers.Driver`) –
- **TODO** (*app*) –

class `_Node(view_factory, view_name)`
Bases: `object`

Parameters

- **view_factory** (`ViewFactory`) –

```

    • view_name (Iterable[str]) –
create_view(name_tuple, /, *, model=None, **kwargs)

    Parameters name_tuple (Iterable[str]) –
    Return type klovve.View

class klovve.view.ViewTreeNode(view_factory, name_tuple, model, data)
    Bases: object

    Parameters data (Iterable[tuple]) –
    __create_or_update_view(old_tree, new_tree, model, parent_view, parent_view_prop_name)

    Parameters
    • old_tree (klovve.view.ViewTreeNode) –
    • new_tree (klovve.view.ViewTreeNode) –
    • model (klovve.data.model.Model) –
    • parent_view (klovve.view.BaseView) –
    • parent_view_prop_name (str) –
create_or_update_view(model, placeholder, old_tree)

    Parameters
    • model (klovve.data.model.Model) –
    • old_tree (klovve.view.ViewTreeNode) –
    property data: dict
    property model: Optional[klovve.data.model.Model]
    property name_tuple: Iterable[str]
    view()

    Return type klovve.view.BaseView

klovve.view._connect_value_holder(target_model, target_prop_name, value_holder)

    Parameters
    • target_model (klovve.data.model.Model) –
    • target_prop_name (str) –
    • value_holder (klovve.data.value_holder.ValueHolder) –
    Return type object

```


PYTHON MODULE INDEX

k

klovve, 9
klovve.application, 79
klovve.data, 9
klovve.data.deps, 9
klovve.data.lists, 11
klovve.data.model, 13
klovve.data.observable_value, 16
klovve.data.reaction, 16
klovve.data.value_holder, 17
klovve.debug, 80
klovve.drivers, 18
klovve.drivers.bare_terminal, 18
klovve.drivers.bare_terminal.views, 19
klovve.drivers.bare_terminal.views.checkable, 19
klovve.drivers.bare_terminal.views.headered_panel, 20
klovve.drivers.bare_terminal.views.interact, 19
klovve.drivers.bare_terminal.views.interact.abstract, 19
klovve.drivers.bare_terminal.views.label, 20
klovve.drivers.bare_terminal.views.log_pager, 20
klovve.drivers.bare_terminal.views.placeholder, 21
klovve.drivers.bare_terminal.views.split, 21
klovve.drivers.bare_terminal.views.vertical_box, 21
klovve.drivers.bare_terminal.views.viewer, 19
klovve.drivers.bare_terminal.views.viewer.image, 19
klovve.drivers.bare_terminal.views.window, 21
klovve.drivers.curses, 22
klovve.drivers.curses.views, 22
klovve.drivers.curses.views._curses_private, 22
klovve.drivers.curses.views._curses_private.box, 22
klovve.drivers.curses.views.busy_animation, 25
klovve.drivers.curses.views.button, 25
klovve.drivers.curses.views.checkable, 26
klovve.drivers.curses.views.disableable, 26
klovve.drivers.curses.views.dropdown, 26
klovve.drivers.curses.views.dual, 27
klovve.drivers.curses.views.form, 23
klovve.drivers.curses.views.form.section, 23
klovve.drivers.curses.views.formatted_text, 27
klovve.drivers.curses.views.header, 27
klovve.drivers.curses.views.headered_panel, 27
klovve.drivers.curses.views.horizontal_box, 28
klovve.drivers.curses.views.interact, 23
klovve.drivers.curses.views.interact.abstract, 23
klovve.drivers.curses.views.label, 28
klovve.drivers.curses.views.list, 28
klovve.drivers.curses.views.log_pager, 29
klovve.drivers.curses.views.placeholder, 29
klovve.drivers.curses.views.progress, 29
klovve.drivers.curses.views.property_panel, 24
klovve.drivers.curses.views.scrollable, 29
klovve.drivers.curses.views.slider, 30
klovve.drivers.curses.views.split, 30
klovve.drivers.curses.views.tabbed, 24
klovve.drivers.curses.views.tabbed.tab, 24
klovve.drivers.curses.views.text_field, 30
klovve.drivers.curses.views.vertical_box, 30
klovve.drivers.curses.views.viewer, 24
klovve.drivers.curses.views.viewer.image, 24
klovve.drivers.curses.views.viewer.pdf, 25
klovve.drivers.curses.views.window, 31
klovve.drivers.curses.viwid, 31
klovve.drivers.curses.viwid.canvas, 45
klovve.drivers.curses.viwid.data, 47
klovve.drivers.curses.viwid.drivers, 33
klovve.drivers.curses.viwid.drivers.curses, 33
klovve.drivers.curses.viwid.drivers.driver,

35
klovve.drivers.curses.viwid.event, 35
klovve.drivers.curses.viwid.event.base, 35
klovve.drivers.curses.viwid.event.input, 36
klovve.drivers.curses.viwid.layout, 48
klovve.drivers.curses.viwid.loop, 49
klovve.drivers.curses.viwid.screen, 49
klovve.drivers.curses.viwid.style, 52
klovve.drivers.curses.viwid.widgets, 36
klovve.drivers.curses.viwid.widgets.box, 36
klovve.drivers.curses.viwid.widgets.busy_animation, 37
klovve.drivers.curses.viwid.widgets.button, 37
klovve.drivers.curses.viwid.widgets.check_button, 37
klovve.drivers.curses.viwid.widgets.dropdown, 38
klovve.drivers.curses.viwid.widgets.entry, 38
klovve.drivers.curses.viwid.widgets.frame, 38
klovve.drivers.curses.viwid.widgets.label, 39
klovve.drivers.curses.viwid.widgets.list, 39
klovve.drivers.curses.viwid.widgets.progress_bar, 39
klovve.drivers.curses.viwid.widgets.radio_button, 40
klovve.drivers.curses.viwid.widgets.scrollable, 40
klovve.drivers.curses.viwid.widgets.widget, 40
klovve.drivers.gtk, 53
klovve.drivers.gtk.views, 55
klovve.drivers.gtk.views._gtk_private, 55
klovve.drivers.gtk.views._gtk_private.box, 55
klovve.drivers.gtk.views.busy_animation, 59
klovve.drivers.gtk.views.button, 59
klovve.drivers.gtk.views.checkable, 60
klovve.drivers.gtk.views.disableable, 60
klovve.drivers.gtk.views.dropdown, 60
klovve.drivers.gtk.views.dual, 61
klovve.drivers.gtk.views.form, 55
klovve.drivers.gtk.views.form.section, 55
klovve.drivers.gtk.views.formatted_text, 61
klovve.drivers.gtk.views.header, 61
klovve.drivers.gtk.views.headered_panel, 61
klovve.drivers.gtk.views.horizontal_box, 62
klovve.drivers.gtk.views.interact, 56
klovve.drivers.gtk.views.interact.abstract, 56
klovve.drivers.gtk.views.label, 62
klovve.drivers.gtk.views.list, 62
klovve.drivers.gtk.views.log_pager, 63
klovve.drivers.gtk.views.placeholder, 63
klovve.drivers.gtk.views.progress, 63
klovve.drivers.gtk.views.property_panel, 56
klovve.drivers.gtk.views.scrollable, 63
klovve.drivers.gtk.views.slider, 64
klovve.drivers.gtk.views.split, 64
klovve.drivers.gtk.views.tabbed, 56
klovve.drivers.gtk.views.tabbed.tab, 57
klovve.drivers.gtk.views.text_field, 64
klovve.drivers.gtk.views.vertical_box, 64
klovve.drivers.gtk.views.viewer, 57
klovve.drivers.gtk.views.viewer.image, 57
klovve.drivers.gtk.views.viewer.pdf, 59
klovve.drivers.gtk.views.window, 65
klovve.pieces, 65
klovve.pieces.busy_animation, 70
klovve.pieces.button, 71
klovve.pieces.checkable, 71
klovve.pieces.disableable, 72
klovve.pieces.dropdown, 72
klovve.pieces.dual, 72
klovve.pieces.form, 65
klovve.pieces.form.section, 65
klovve.pieces.formatted_text, 73
klovve.pieces.header, 73
klovve.pieces.headered_panel, 73
klovve.pieces.horizontal_box, 74
klovve.pieces.interact, 66
klovve.pieces.interact.abstract, 66
klovve.pieces.interact.message, 66
klovve.pieces.interact.textline, 67
klovve.pieces.interact.triggers, 67
klovve.pieces.interact.yesno, 67
klovve.pieces.label, 74
klovve.pieces.list, 75
klovve.pieces.list_panel, 75
klovve.pieces.log_pager, 67
klovve.pieces.log_pager.entry, 68
klovve.pieces.placeholder, 76
klovve.pieces.progress, 76
klovve.pieces.property_panel, 68
klovve.pieces.property_panel.entry, 69
klovve.pieces.scrollable, 76
klovve.pieces.slider, 77
klovve.pieces.split, 77
klovve.pieces.tabbed, 69
klovve.pieces.tabbed.tab, 69
klovve.pieces.text_field, 77
klovve.pieces.vertical_box, 78
klovve.pieces.viewer, 70
klovve.pieces.viewer.image, 70
klovve.pieces.viewer.pdf, 70
klovve.pieces.window, 78
klovve.threading_, 80
klovve.type_loader, 80
klovve.view, 82

INDEX

Symbols

`_Canvas` (class in `klovve.drivers.curses.viwid.drivers.curses`), 33

`_ComputedProperty` (class in `klovve.data.model`), 15

`_CursesColors` (class in `klovve.drivers.curses.viwid.drivers.curses`), 34

`_CursesColors.Mode` (class in `klovve.drivers.curses.viwid.drivers.curses`), 34

`_CursesColors__curses_color()` (`klovve.drivers.curses.viwid.drivers.curses._CursesColors` method), 34

`_ListProperty` (class in `klovve.drivers.curses.viwid.widgets.widget`), 44

`_Loop` (class in `klovve.drivers.curses.viwid.drivers.curses`), 34

`_Memory` (class in `klovve.debug`), 80

`_Memory__change_counter()` (`klovve.debug._Memory` method), 80

`_Memory__decrement_counter()` (`klovve.debug._Memory` method), 80

`_Memory__increment_counter()` (`klovve.debug._Memory` method), 80

`_Property` (class in `klovve.drivers.curses.viwid.widgets.widget`), 44

`_ReactionModel` (class in `klovve.data.reaction`), 16

`_Screen` (class in `klovve.drivers.curses.viwid.drivers.curses`), 34

`_Selector` (class in `klovve.drivers.gtk`), 53

`_Source` (class in `klovve.drivers.gtk`), 54

`__add_changed_handler()` (`klovve.data.model.Model` method), 14

`__available_version()` (`klovve.data.model.Model` method), 14

`__bind()` (`klovve.drivers.curses.View` method), 22

`__bind()` (`klovve.drivers.gtk.View` method), 53

`__click()` (`klovve.drivers.curses.viwid.widgets.dropdown.DropDown` method), 38

`__compute()` (`klovve.data.model.Model` method), 14

`__correct_index()` (`klovve.data.lists.List` method), 11

`__correct_index()` (`klovve.drivers.curses.viwid.data.List` method), 47

`__correct_offset()` (`klovve.drivers.curses.viwid.widgets.scrollable.Scrollable` method), 40

`__create_or_update_view()` (`klovve.view.ViewTreeNode` method), 83

`__ensure_config_correct()` (`klovve.drivers.gtk.views.viewer.image.Image` method), 57

`__find_last_whitespace()` (`klovve.drivers.curses.viwid.widgets.label.Label` method), 39

`__head_version()` (`klovve.data.model.Model` method), 14

`__horizontally_process_partitioning()` (`klovve.drivers.curses.viwid.layout.GridLayout` method), 48

`__inner_size_changed()` (`klovve.drivers.gtk.views.log_pager.View` method), 63

`__invalidate()` (`klovve.data.model.Model` method), 14

`__item_added()` (`klovve.drivers.curses.viwid.widgets.box.Box` method), 36

`__item_added()` (`klovve.drivers.curses.viwid.widgets.widget.Widget` method), 41

`__item_removed()` (`klovve.drivers.curses.viwid.widgets.box.Box` method), 36

`__item_removed()` (`klovve.drivers.curses.viwid.widgets.widget.Widget` method), 41

`__move_offset()` (`klovve.drivers.curses.viwid.widgets.scrollable.Scrollable` method), 40

`__next()` (`klovve.drivers.curses.viwid.widgets.busy_animation.BusyAnimation` method), 37

`__on_mouse_button_pressed()` (`klovve.drivers.gtk.views.viewer.image.Outer` method), 58

`__on_mouse_button_released()` (`klovve.drivers.gtk.views.viewer.image.Outer` method), 58

`__on_mouse_moved()` (`klovve.drivers.gtk.views.viewer.image.Outer` method), 58

`__on_mouse_wheel()` (`klovve.drivers.gtk.views.viewer.image.Outer` method), 58

method), 58
 __process_partitioning()
 (klovve.drivers.curses.viwid.layout.GridLayout
 method), 48
 __refresh() (klovve.drivers.gtk.views.viewer.image.Image
 method), 57
 __remove_changed_handler()
 (klovve.data.model.Model method), 14
 __requests_queue() (klovve.drivers.curses.viwid.drivers.curses.Driver
 method), 33
 __running_apps_changed_event
 (klovve.application.ApplicationInternal at-
 tribute), 79
 __running_loop() (klovve.application.ApplicationInternal
 method), 79
 __stretch_axis_finally()
 (klovve.drivers.curses.viwid.layout.GridLayout
 method), 48
 __stretch_axis_minimals()
 (klovve.drivers.curses.viwid.layout.GridLayout
 method), 48
 __stretch_from_partitioning()
 (klovve.drivers.curses.viwid.layout.GridLayout
 method), 48
 __trim_geometry() (klovve.drivers.curses.viwid.layout.GridLayout property), 41
 method), 48
 __vertically_process_partitioning()
 (klovve.drivers.curses.viwid.layout.GridLayout
 method), 48
 _abc_impl (klovve.application.Application attribute), 79
 _abc_impl (klovve.application.ApplicationInternal at-
 tribute), 79
 _abc_impl (klovve.data.lists.List attribute), 11
 _abc_impl (klovve.data.observable_value.ObservableValue
 attribute), 16
 _abc_impl (klovve.data.observable_value.ObservableValueProtocol
 attribute), 16
 _abc_impl (klovve.data.value_holder.ComputedValue
 attribute), 17
 _abc_impl (klovve.data.value_holder.OneWayBinding
 attribute), 17
 _abc_impl (klovve.data.value_holder.TwoWayBinding
 attribute), 17
 _abc_impl (klovve.data.value_holder.ValueHolder at-
 tribute), 17
 _abc_impl (klovve.drivers.curses.viwid.data.List at-
 tribute), 47
 _abc_impl (klovve.drivers.curses.viwid.drivers.curses.Driver
 attribute), 33
 _abc_impl (klovve.drivers.curses.viwid.drivers.driver.Driver
 attribute), 35
 _abc_impl (klovve.drivers.curses.viwid.screen.AnchorRootAlignment
 attribute), 49
 _abc_impl (klovve.drivers.curses.viwid.screen.AutoRootAlignment
 attribute), 49
 attribute), 49
 _abc_impl (klovve.drivers.curses.viwid.screen.ByScreenRootAlignmentSizing
 attribute), 49
 _abc_impl (klovve.drivers.curses.viwid.screen.CenterRootAlignmentPositioning
 attribute), 49
 _abc_impl (klovve.drivers.curses.viwid.screen.FixedRootAlignmentPositioning
 attribute), 50
 _abc_impl (klovve.drivers.curses.viwid.screen.FixedRootAlignmentSizing
 attribute), 50
 _abc_impl (klovve.drivers.curses.viwid.screen.RootAlignmentPositioning
 attribute), 50
 _abc_impl (klovve.drivers.curses.viwid.screen.RootAlignmentSizing
 attribute), 50
 _abc_impl (klovve.drivers.gtk._Selector attribute), 53
 _abc_impl (klovve.type_loader.DefaultTypeLoader at-
 tribute), 80
 _abc_impl (klovve.type_loader.TypeLoader attribute),
 81
 _add_observer() (klovve.data.lists.List method), 11
 _add_observer() (klovve.drivers.curses.viwid.data.List
 method), 47
 _call_soon() (klovve.drivers.gtk.EventLoop method),
 53
 _children (klovve.drivers.curses.viwid.widgets.widget.Widget
 attribute), 41
 _compute() (klovve.data.model.Property method), 15
 _compute() (klovve.data.model.PropertyBase method),
 15
 _compute() (klovve.data.model._ComputedProperty
 method), 15
 _connect_value_holder() (in module klovve.view),
 83
 _create_mainloop() (klovve.drivers.Driver method),
 18
 _create_mainloop() (klovve.drivers.bare_terminal.Driver
 method), 18
 _create_mainloop() (klovve.drivers.curses.Driver
 method), 22
 _create_mainloop() (klovve.drivers.gtk.Driver
 method), 53
 _fget() (klovve.data.model.PropertyBase method), 15
 _fget() (klovve.drivers.curses.viwid.widgets.widget._ListProperty
 method), 44
 _fget() (klovve.drivers.curses.viwid.widgets.widget._Property
 method), 44
 _find_modules() (in module klovve.type_loader), 81
 _flush_dependency_handlers()
 (klovve.data.deps.DependencySubject method),
 10
 flush_dependency_handlers()
 (klovve.data.model.Model method), 14
 flush_dependency_handlers() (klovve.data.model.ListProperty method), 14
 _fset() (klovve.data.model.PropertyBase method), 15
 _fset() (klovve.data.model._ComputedProperty
 method), 15

`method`), 15
`_fset()` (`klovve.drivers.curses.viwid.widgets.widget._ListProperty` `method`), 30
`method`), 44
`_fset()` (`klovve.drivers.curses.viwid.widgets.widget._Property` `method`), 55
`method`), 44
`_get_dependencies()`
(`klovve.data.deps.DependencySubject` `method`), 10
`_get_dependencies()` (`klovve.data.model.Model` `method`), 14
`_get_none_value_func()` (`in` `module` `klovve.data.model`), 15
`_initially()` (`klovve.data.model.PropertyBase` `method`), 15
`_initially()` (`klovve.data.model._ComputedProperty` `method`), 15
`_internal_mouse_click_event()`
(`klovve.drivers.curses.viwid.widgets.widget.Widget` `method`), 41
`_is_protocol` (`klovve.data.lists.List` `attribute`), 11
`_is_protocol` (`klovve.data.observable_value.ObservableValue` `attribute`), 16
`_is_protocol` (`klovve.data.observable_value.ObservableValue` `attribute`), 16
`_is_runtime_protocol`
(`klovve.data.observable_value.ObservableValueProperty` `attribute`), 16
`_keyboard_event()` (`klovve.drivers.curses.viwid.widgets.button.Button` `method`), 37
`_keyboard_event()` (`klovve.drivers.curses.viwid.widgets.check_button.CheckButton` `method`), 37
`_keyboard_event()` (`klovve.drivers.curses.viwid.widgets.enumerable_observer.EnumerableObserver` `method`), 38
`_keyboard_event()` (`klovve.drivers.curses.viwid.widgets.list.List` `method`), 39
`_keyboard_event()` (`klovve.drivers.curses.viwid.widgets.widget.Widget` `method`), 41
`_mainloop` (`klovve.drivers.Driver` `attribute`), 18
`_mouse_click_event()`
(`klovve.drivers.curses.viwid.widgets.button.Button_select` `method`), 37
`_mouse_click_event()`
(`klovve.drivers.curses.viwid.widgets.check_button.CheckButton` `method`), 37
`_mouse_click_event()`
(`klovve.drivers.curses.viwid.widgets.list.List` `method`), 39
`_mouse_click_event()`
(`klovve.drivers.curses.viwid.widgets.widget.Widget` `method`), 41
`_orientation()` (`klovve.drivers.curses.views._curses_private.box.VerticalBox` `method`), 22
`_orientation()` (`klovve.drivers.curses.views.horizontal_box.View` `method`), 28
`_orientation()` (`klovve.drivers.curses.views.vertical_box.View` `method`), 30
`_orientation()` (`klovve.drivers.gtk.views._gtk_private.box.View` `method`), 55
`_orientation()` (`klovve.drivers.gtk.views.horizontal_box.View` `method`), 62
`_orientation()` (`klovve.drivers.gtk.views.vertical_box.View` `method`), 64
`_partitioning2()` (`klovve.drivers.curses.viwid.widgets.box.Box` `method`), 37
`_preview_internal_mouse_click_event()`
(`klovve.drivers.curses.viwid.widgets.widget.Widget` `method`), 41
`_preview_keyboard_event()`
(`klovve.drivers.curses.viwid.widgets.scrollable.Scrollable` `method`), 40
`_preview_keyboard_event()`
(`klovve.drivers.curses.viwid.widgets.widget.Widget` `method`), 41
`_preview_mouse_click_event()`
(`klovve.drivers.curses.viwid.widgets.widget.Widget` `method`), 41
`_preview_scroll_event()`
(`klovve.drivers.curses.viwid.widgets.scrollable.Scrollable` `method`), 40
`_preview_scroll_event()`
(`klovve.drivers.curses.viwid.widgets.widget.Widget` `method`), 42
`_print_loop()` (`in` `module` `klovve.debug`), 80
`_refresh()` (`klovve.drivers.gtk.views.viewer.image.Image` `method`), 57
`_remove_observer()` (`klovve.data.lists.List` `method`), 11
`_remove_observer()` (`klovve.drivers.curses.viwid.data.List` `method`), 47
`_running_apps_changed_event()`
(`klovve.application.ApplicationInternal` `static` `method`), 79
`_scroll_event()` (`klovve.drivers.curses.viwid.widgets.widget.Widget` `method`), 42
`_set_dependencies()`
(`klovve.data.deps.DependencySubject` `method`), 10
`_set_dependencies()` (`klovve.data.model.Model` `method`), 14
`_set_value()` (`klovve.data.model.Model` `method`), 14
`_text_in_width()` (`klovve.drivers.curses.viwid.widgets.label.Label` `method`), 39
`_time_text()` (`in` `module` `klovve.drivers.curses.views.log_pager`), 29
`_time_text()` (`in` `module` `klovve.drivers.gtk.views.log_pager`), 63
`_trigger_changed()` (`klovve.data.model.Model`

- method), 14
- `_trigger_changed()` (klovve.data.observable_value.ObservableValue method), 16
- `_trigger_changed()` (klovve.data.observable_value.ObservableValue method), 16
- `_try_find_type_in_module()` (in module klovve.type_loader), 81
- `_try_find_type_per_name_tuple()` (in module klovve.type_loader), 81
- `_update__default_create_target_object()` (in module klovve.data.lists), 13
- `_update__default_is_matching_target_object()` (in module klovve.data.lists), 13
- `_update__default_update_target_object()` (in module klovve.data.lists), 13
- `_use_last_value_during_recompute()` (klovve.data.model.PropertyBase method), 15
- `_use_last_value_during_recompute()` (klovve.data.model._ComputedProperty method), 15
- `_value()` (klovve.data.model.Model method), 14
- ## A
- `a` (klovve.drivers.curses.viwid.canvas.Canvas.Color property), 45
- `a` (klovve.drivers.curses.viwid.canvas.Canvas.Color property), 46
- `action` (klovve.pieces.button.Model property), 71
- `actions` (klovve.pieces.headered_panel.Model property), 73
- `actions` (klovve.pieces.window.Model property), 78
- `add_changed_handler()` (klovve.data.observable_value.ObservableValue method), 16
- `add_changed_handler()` (klovve.data.observable_value.ObservableValue method), 16
- `add_fd()` (klovve.drivers.gtk._Source method), 54
- `add_root()` (klovve.drivers.curses.viwid.screen.Screen method), 51
- `add_widget_screen()` (klovve.drivers.curses.viwid.drivers.curses.Driver method), 33
- `add_widget_screen()` (klovve.drivers.curses.viwid.drivers.driver.Driver method), 35
- `Alignment` (class in klovve.drivers.curses.viwid.widgets.widget), 40
- `alive()` (klovve.drivers.curses.viwid.widgets.widget.Widget method), 42
- `allows_multiselect` (klovve.pieces.list.Model property), 75
- `AnchorRootAlignmentPositioning` (class in klovve.drivers.curses.viwid.screen), 49
- `answer` (klovve.pieces.interact.Model property), 66
- `Application` (class in klovve.application), 79
- `ApplicationInternal` (class in klovve.application), 79
- `apply_color_driver()` (klovve.drivers.curses.viwid.screen.RootAlignment method), 50
- `AutoRootAlignmentSizing` (class in klovve.drivers.curses.viwid.screen), 49
- ## B
- `b` (klovve.drivers.curses.viwid.canvas.Canvas.Color attribute), 45
- `b` (klovve.drivers.curses.viwid.canvas.Canvas.Color attribute), 46
- `background` (klovve.drivers.curses.viwid.widgets.widget.Widget property), 42
- `barz` (klovve.pieces.list.Model property), 75
- `barz` (klovve.pieces.list_panel.Model property), 75
- `base` (klovve.drivers.curses.viwid.canvas.Canvas.FullColor attribute), 45
- `base` (klovve.drivers.curses.viwid.canvas.Canvas.FullColor attribute), 46
- `BaseView` (class in klovve), 9
- `BaseView` (class in klovve.view), 82
- `began_at` (klovve.pieces.log_pager.entry.Model property), 68
- `bind()` (klovve.drivers.curses.View static method), 22
- `bind()` (klovve.drivers.gtk.View static method), 53
- `BindFactory` (class in klovve.view), 82
- `body` (klovve.pieces.headered_panel.Model property), 73
- `body` (klovve.pieces.list_panel.Model property), 75
- `body` (klovve.pieces.window.Model property), 78
- `boff` (klovve.pieces.log_pager.Model property), 67
- `bottom_right` (klovve.drivers.curses.viwid.Rectangle property), 32
- `bottom_y` (klovve.drivers.curses.viwid.Rectangle property), 32
- `bottommost` (klovve.drivers.curses.viwid.screen.Screen property), 51
- `Box` (class in klovve.drivers.curses.viwid.widgets.box), 36
- `BUSY` (klovve.pieces.headered_panel.Model.State attribute), 73
- `BusyAnimation` (class in klovve.drivers.curses.viwid.widgets.busy_animation), 37
- `Button` (class in klovve.drivers.curses.viwid.widgets.button), 37
- `ByScreenRootAlignmentSizing` (class in klovve.drivers.curses.viwid.screen), 49
- ## C
- `call_at()` (klovve.drivers.gtk.EventLoop method), 53
- `call_with_kwargs()` (in module klovve.application), 79
- `call_with_kwargs_maybe_async()` (in module klovve.application), 79

Canvas (class in klovve.drivers.curses.viwid.canvas), 45
 canvas() (klovve.drivers.curses.viwid.drivers.curses.Driver method), 33
 canvas() (klovve.drivers.curses.viwid.drivers.driver.Driver method), 35
 canvas() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 42
 Canvas.Color (class in klovve.drivers.curses.viwid.canvas), 45
 Canvas.FullColor (class in klovve.drivers.curses.viwid.canvas), 45
 CBox (class in klovve.drivers.curses.viwid.widgets.box), 37
 CENTER (klovve.drivers.curses.viwid.widgets.widget.Alignment attribute), 40
 CenterRootAlignmentPositioning (class in klovve.drivers.curses.viwid.screen), 49
 check() (klovve.drivers.gtk._Source method), 54
 CheckButton (class in klovve.drivers.curses.viwid.widgets.check_button), 37
 checked (klovve.drivers.curses.viwid.widgets.check_button.CheckButton property), 37
 child_at_position() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 42
 children (klovve.drivers.curses.viwid.widgets.box.Box property), 37
 children() (in module klovve.drivers.curses), 22
 children() (in module klovve.drivers.gtk), 55
 class_style_name (klovve.drivers.curses.viwid.widgets.box.CBox property), 37
 class_style_name (klovve.drivers.curses.viwid.widgets.button.Button property), 37
 class_style_name (klovve.drivers.curses.viwid.widgets.entry.Entry method), 37
 class_style_name (klovve.drivers.curses.viwid.widgets.entry.Entry property), 38
 class_style_name (klovve.drivers.curses.viwid.widgets.list.List property), 39
 class_style_name (klovve.drivers.curses.viwid.widgets.list.ListRow method), 38
 class_style_name (klovve.drivers.curses.viwid.widgets.list.ListRow property), 39
 class_style_name (klovve.drivers.curses.viwid.widgets.progress_bar.ProgressBar property), 39
 class_style_name (klovve.drivers.curses.viwid.widgets.widget.Widget method), 39
 class_style_name (klovve.drivers.curses.viwid.widgets.widget.Widget property), 42
 ClassStyle (class in klovve.drivers.curses.viwid.style), 52
 close() (klovve.drivers.gtk._Selector method), 53
 close_func (klovve.pieces.window.Model property), 78
 closing (klovve.pieces.window.Model property), 78
 Color (class in klovve.drivers.curses.viwid.canvas), 46
 color_pair() (klovve.drivers.curses.viwid.drivers.curses._CursesColors.Mode method), 34
 COLORS_256 (klovve.drivers.curses.viwid.drivers.curses._CursesColors.Mode attribute), 34
 COLORS_8 (klovve.drivers.curses.viwid.drivers.curses._CursesColors.Mode attribute), 34
 colors_by_pair() (klovve.drivers.curses.viwid.drivers.curses._CursesColors.Mode method), 34
 ComposedView (class in klovve.view), 82
 compute_height() (klovve.drivers.curses.viwid.layout.GridLayout method), 48
 compute_height() (klovve.drivers.curses.viwid.layout.Layout method), 48
 compute_height() (klovve.drivers.curses.viwid.layout.NullLayout method), 49
 compute_height() (klovve.drivers.curses.viwid.widgets.check_button.CheckButton method), 37
 compute_height() (klovve.drivers.curses.viwid.widgets.entry.Entry method), 38
 compute_height() (klovve.drivers.curses.viwid.widgets.frame.Frame method), 38
 compute_height() (klovve.drivers.curses.viwid.widgets.label.Label method), 39
 compute_height() (klovve.drivers.curses.viwid.widgets.progress_bar.ProgressBar method), 39
 compute_height() (klovve.drivers.curses.viwid.widgets.scrollable.Scrollable method), 40
 compute_height() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 42
 compute_height2() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 42
 compute_width() (klovve.drivers.curses.viwid.layout.GridLayout method), 48
 compute_width() (klovve.drivers.curses.viwid.layout.Layout method), 48
 compute_width() (klovve.drivers.curses.viwid.layout.NullLayout method), 49
 compute_width() (klovve.drivers.curses.viwid.widgets.check_button.CheckButton method), 37
 compute_width() (klovve.drivers.curses.viwid.widgets.entry.Entry method), 38
 compute_width() (klovve.drivers.curses.viwid.widgets.frame.Frame method), 38
 compute_width() (klovve.drivers.curses.viwid.widgets.label.Label method), 39
 compute_width() (klovve.drivers.curses.viwid.widgets.progress_bar.ProgressBar method), 39
 compute_width() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 39
 compute_width() (klovve.drivers.curses.viwid.widgets.widget.Widget property), 40
 compute_width() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 42
 compute_width2() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 42
 computed() (klovve.view.ComposedView method), 82
 computed_horizontal_expand_greedily (klovve.drivers.curses.viwid.widgets.widget.Widget method), 42
 computed_is_disabled (klovve.drivers.curses.viwid.widgets.widget.Widget method), 42

(*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 42
 computed_vertical_expand_greedily (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 42
 ComputedProperty() (in module *klovve.data.model*), 13
 ComputedValue (class in *klovve.data.value_holder*), 17
 Context (class in *klovve.drivers.curses.views.button*), 25
 Context (class in *klovve.drivers.curses.views.window*), 31
 Context (class in *klovve.drivers.gtk.views.button*), 59
 Context (class in *klovve.drivers.gtk.views.window*), 65
 create_app() (in module *klovve.application*), 79
 create_or_update_view() (*klovve.view.ViewTreeNode* method), 83
 create_task() (*klovve.drivers.gtk.EventLoop* method), 53
 create_view() (*klovve.view.ViewFactory* method), 83
 current (*klovve.debug._Memory* property), 80
 curses_colors (*klovve.drivers.curses.viwid.drivers.curses.colors* attribute), 34
 curses_colors (*klovve.drivers.curses.viwid.drivers.curses.colors* property), 33
 cursor() (*klovve.drivers.curses.viwid.canvas.Canvas* method), 45
 cursor() (*klovve.drivers.curses.viwid.drivers.curses._Canvas* method), 33
 cursor_position (*klovve.drivers.curses.viwid.widgets.entry.Entry* property), 38
D
 data (*klovve.view.ViewTreeNode* property), 83
 DefaultTypeLoader (class in *klovve.type_loader*), 80
 defer_value_propagation() (in module *klovve.data.deps*), 10
 dematerialize() (*klovve.drivers.curses.viwid.widgets.widget.Widget* method), 42
 DependencySubject (class in *klovve.data.deps*), 10
 detect_dependencies() (in module *klovve.data.deps*), 10
 dialog() (*klovve.drivers.curses.views.button.Context* method), 25
 dialog() (*klovve.drivers.curses.views.window.Context* method), 31
 dialog() (*klovve.drivers.gtk.views.button.Context* method), 59
 dialog() (*klovve.drivers.gtk.views.window.Context* method), 65
 direction (*klovve.drivers.curses.viwid.event.input.ScrollOngoingEvent* property), 36
 dispatch() (*klovve.drivers.gtk._Source* method), 54
 display_coordinates_to_image_coordinates() (*klovve.drivers.gtk.views.viewer.image.Image* method), 57
 display_height (*klovve.drivers.gtk.views.viewer.image.Image* property), 57
 display_width (*klovve.drivers.gtk.views.viewer.image.Image* property), 57
 do_get_property() (*klovve.drivers.gtk.views.viewer.image.Image* method), 57
 do_get_property() (*klovve.drivers.gtk.views.viewer.image.Outer* method), 58
 do_measure() (*klovve.drivers.gtk.views.viewer.image.Outer* method), 58
 do_set_property() (*klovve.drivers.gtk.views.viewer.image.Image* method), 57
 do_set_property() (*klovve.drivers.gtk.views.viewer.image.Outer* method), 58
 do_size_allocate() (*klovve.drivers.gtk.views.viewer.image.Outer* method), 58
 Driver (class in *klovve.drivers*), 18
 Driver (class in *klovve.drivers.bare_terminal*), 18
 Driver (class in *klovve.drivers.curses*), 22
 Driver (class in *klovve.drivers.curses.viwid.drivers.curses.colors*), 33
 Driver (class in *klovve.drivers.curses.viwid.drivers.driver*), 35
 Driver (class in *klovve.drivers.gtk*), 53
 driver (*klovve.drivers.curses.viwid.screen.Screen* property), 51
 driver_type() (*klovve.type_loader.DefaultTypeLoader* method), 80
 driver_type() (*klovve.type_loader.TypeLoader* method), 81
 DropDown (class in *klovve.drivers.curses.viwid.widgets.dropdown*), 38
E
 ended_at (*klovve.pieces.log_pager.entry.Model* property), 68
 entries (*klovve.pieces.log_pager.entry.Model* property), 68
 entries (*klovve.pieces.log_pager.Model* property), 67
 entries (*klovve.pieces.property_panel.Model* property), 68
 Entry (class in *klovve.drivers.curses.viwid.widgets.entry*), 38
 error_message_for_exceptions() (*klovve.drivers.curses.views.button.Context* method), 25
 error_message_for_exceptions() (*klovve.drivers.curses.views.window.Context* method), 31
 error_message_for_exceptions() (*klovve.drivers.gtk.views.button.Context* method), 59
 error_message_for_exceptions()

- (klovve.drivers.gtk.views.window.Context method), 65
- event_loop (klovve.drivers.curses.viwid.loop.Loop property), 49
- EVENT_TO_GLIB (klovve.drivers.gtk._Source attribute), 54
- EventLoop (class in klovve.drivers.gtk), 53
- extend_by() (klovve.drivers.curses.viwid.Size method), 32
- EXTRA_LARGE (klovve.pieces.busy_animation.Model.Size attribute), 70
- ## F
- fabric (klovve.drivers.curses.views.button.Context property), 25
- fabric (klovve.drivers.curses.views.window.Context property), 31
- fabric (klovve.drivers.gtk.views.button.Context property), 59
- fabric (klovve.drivers.gtk.views.window.Context property), 65
- FAILED (klovve.pieces.headered_panel.Model.State attribute), 73
- FILL (klovve.drivers.curses.viwid.widgets.widget.Alignment attribute), 40
- fill() (klovve.drivers.curses.viwid.canvas.Canvas method), 45
- fill() (klovve.drivers.curses.viwid.drivers.curses._Canvas method), 33
- FixedRootAlignmentPositioning (class in klovve.drivers.curses.viwid.screen), 50
- FixedRootAlignmentSizing (class in klovve.drivers.curses.viwid.screen), 50
- fizzwid_new() (klovve.drivers.curses.View static method), 22
- focusable (klovve.drivers.curses.viwid.widgets.button.Button property), 37
- focusable (klovve.drivers.curses.viwid.widgets.entry.Entry property), 38
- focusable (klovve.drivers.curses.viwid.widgets.list.List property), 39
- focusable (klovve.drivers.curses.viwid.widgets.scrollable.Scrollable method), 49
- focusable (klovve.drivers.curses.viwid.widgets.widget.Widget property), 40
- focusable (klovve.drivers.curses.viwid.widgets.widget.Widget property), 43
- focussed() (klovve.drivers.curses.viwid.widgets.widget.Widget.Partimethod), 41
- focussed_widget (klovve.drivers.curses.viwid.drivers.curses._Screen property), 34
- focussed_widget (klovve.drivers.curses.viwid.screen.Screen property), 51
- foreground (klovve.drivers.curses.viwid.widgets.widget.Widget property), 43
- Frame (class in klovve.drivers.curses.viwid.widgets.frame), 38
- from_string() (klovve.drivers.curses.viwid.canvas.Canvas.Color static method), 45
- from_string() (klovve.drivers.curses.viwid.canvas.Canvas.FullColor static method), 45
- from_string() (klovve.drivers.curses.viwid.canvas.Color static method), 46
- from_string() (klovve.drivers.curses.viwid.canvas.FullColor static method), 46
- FullColor (class in klovve.drivers.curses.viwid.canvas), 46
- ## G
- g (klovve.drivers.curses.viwid.canvas.Canvas.Color attribute), 45
- g (klovve.drivers.curses.viwid.canvas.Color attribute), 46
- get_answer_func (klovve.pieces.interact.abstract.Model property), 66
- get_composition() (klovve.drivers.curses.views.tabbed.tab.View method), 24
- get_composition() (klovve.drivers.gtk.views.tabbed.tab.View method), 57
- get_composition() (klovve.pieces.interact.message.View method), 66
- get_composition() (klovve.pieces.interact.textline.View method), 67
- get_composition() (klovve.pieces.interact.triggers.View method), 67
- get_composition() (klovve.pieces.interact.yesno.View method), 67
- get_composition() (klovve.pieces.list_panel.View method), 75
- get_composition() (klovve.view.ComposedView method), 82
- get_driver() (in module klovve.drivers.curses.viwid.drivers), 33
- get_events() (klovve.drivers.gtk._Source method), 54
- get_height() (klovve.drivers.curses.viwid.screen.AutoRootAlignmentSizing method), 49
- get_height() (klovve.drivers.curses.viwid.screen.ByScreenRootAlignmentSizing method), 49
- get_height() (klovve.drivers.curses.viwid.screen.FixedRootAlignmentSizing method), 50
- get_height() (klovve.drivers.curses.viwid.screen.RootAlignmentSizing method), 50
- get_native() (klovve.BaseView method), 9
- get_native() (klovve.drivers.bare_terminal.views.checkable.View method), 20
- get_native() (klovve.drivers.bare_terminal.views.headered_panel.View method), 20
- get_native() (klovve.drivers.bare_terminal.views.interact.abstract.View method), 19

<code>get_native()</code> (<code>klovve.drivers.bare_terminal.views.label.View</code> method), 20	<code>get_native()</code> (<code>klovve.drivers.curses.views.slider.View</code> method), 30
<code>get_native()</code> (<code>klovve.drivers.bare_terminal.views.log_pager.View</code> method), 20	<code>get_native()</code> (<code>klovve.drivers.curses.views.split.View</code> method), 30
<code>get_native()</code> (<code>klovve.drivers.bare_terminal.views.placeholder.View</code> method), 21	<code>get_native()</code> (<code>klovve.drivers.curses.views.tabbed.View</code> method), 24
<code>get_native()</code> (<code>klovve.drivers.bare_terminal.views.split.View</code> method), 21	<code>get_native()</code> (<code>klovve.drivers.curses.views.text_field.View</code> method), 30
<code>get_native()</code> (<code>klovve.drivers.bare_terminal.views.vertical_scrollbar.View</code> method), 21	<code>get_native()</code> (<code>klovve.drivers.curses.views.viewer.image.View</code> method), 24
<code>get_native()</code> (<code>klovve.drivers.bare_terminal.views.viewer.image.View</code> method), 19	<code>get_native()</code> (<code>klovve.drivers.curses.views.viewer.pdf.View</code> method), 25
<code>get_native()</code> (<code>klovve.drivers.bare_terminal.views.window.View</code> method), 21	<code>get_native()</code> (<code>klovve.drivers.curses.views.window.View</code> method), 31
<code>get_native()</code> (<code>klovve.drivers.curses.views._curses_private_box.View</code> method), 22	<code>get_native()</code> (<code>klovve.drivers.gtk.views._gtk_private.box.View</code> method), 55
<code>get_native()</code> (<code>klovve.drivers.curses.views.busy_animation.View</code> method), 25	<code>get_native()</code> (<code>klovve.drivers.gtk.views.busy_animation.View</code> method), 59
<code>get_native()</code> (<code>klovve.drivers.curses.views.button.View</code> method), 25	<code>get_native()</code> (<code>klovve.drivers.gtk.views.button.View</code> method), 60
<code>get_native()</code> (<code>klovve.drivers.curses.views.checkable.View</code> method), 26	<code>get_native()</code> (<code>klovve.drivers.gtk.views.checkable.View</code> method), 60
<code>get_native()</code> (<code>klovve.drivers.curses.views.disableable.View</code> method), 26	<code>get_native()</code> (<code>klovve.drivers.gtk.views.disableable.View</code> method), 60
<code>get_native()</code> (<code>klovve.drivers.curses.views.dropdown.View</code> method), 26	<code>get_native()</code> (<code>klovve.drivers.gtk.views.dropdown.View</code> method), 60
<code>get_native()</code> (<code>klovve.drivers.curses.views.dual.View</code> method), 27	<code>get_native()</code> (<code>klovve.drivers.gtk.views.dual.View</code> method), 61
<code>get_native()</code> (<code>klovve.drivers.curses.views.form.section.View</code> method), 23	<code>get_native()</code> (<code>klovve.drivers.gtk.views.form.section.View</code> method), 55
<code>get_native()</code> (<code>klovve.drivers.curses.views.form.View</code> method), 23	<code>get_native()</code> (<code>klovve.drivers.gtk.views.form.View</code> method), 55
<code>get_native()</code> (<code>klovve.drivers.curses.views.formatted_text.View</code> method), 27	<code>get_native()</code> (<code>klovve.drivers.gtk.views.formatted_text.View</code> method), 61
<code>get_native()</code> (<code>klovve.drivers.curses.views.header.View</code> method), 27	<code>get_native()</code> (<code>klovve.drivers.gtk.views.header.View</code> method), 61
<code>get_native()</code> (<code>klovve.drivers.curses.views.headered_panel.View</code> method), 27	<code>get_native()</code> (<code>klovve.drivers.gtk.views.headered_panel.View</code> method), 61
<code>get_native()</code> (<code>klovve.drivers.curses.views.interact.abstract.View</code> method), 23	<code>get_native()</code> (<code>klovve.drivers.gtk.views.interact.abstract.View</code> method), 56
<code>get_native()</code> (<code>klovve.drivers.curses.views.label.View</code> method), 28	<code>get_native()</code> (<code>klovve.drivers.gtk.views.label.View</code> method), 62
<code>get_native()</code> (<code>klovve.drivers.curses.views.list.View</code> method), 28	<code>get_native()</code> (<code>klovve.drivers.gtk.views.list.View</code> method), 62
<code>get_native()</code> (<code>klovve.drivers.curses.views.log_pager.View</code> method), 29	<code>get_native()</code> (<code>klovve.drivers.gtk.views.log_pager.View</code> method), 63
<code>get_native()</code> (<code>klovve.drivers.curses.views.placeholder.View</code> method), 29	<code>get_native()</code> (<code>klovve.drivers.gtk.views.placeholder.View</code> method), 63
<code>get_native()</code> (<code>klovve.drivers.curses.views.progress.View</code> method), 29	<code>get_native()</code> (<code>klovve.drivers.gtk.views.progress.View</code> method), 63
<code>get_native()</code> (<code>klovve.drivers.curses.views.property_panel.View</code> method), 24	<code>get_native()</code> (<code>klovve.drivers.gtk.views.property_panel.View</code> method), 56
<code>get_native()</code> (<code>klovve.drivers.curses.views.scrollable.View</code> method), 29	<code>get_native()</code> (<code>klovve.drivers.gtk.views.scrollable.View</code> method), 63

- `get_native()` (*klovve.drivers.gtk.views.slider.View* method), 64
`get_native()` (*klovve.drivers.gtk.views.split.View* method), 64
`get_native()` (*klovve.drivers.gtk.views.tabbed.View* method), 56
`get_native()` (*klovve.drivers.gtk.views.text_field.View* method), 64
`get_native()` (*klovve.drivers.gtk.views.viewer.image.View* method), 58
`get_native()` (*klovve.drivers.gtk.views.viewer.pdf.View* method), 59
`get_native()` (*klovve.drivers.gtk.views.window.View* method), 65
`get_native()` (*klovve.view.BaseView* method), 82
`get_native()` (*klovve.view.ComposedView* method), 82
`get_native_stuff()` (*klovve.BaseView* method), 9
`get_native_stuff()` (*klovve.view.BaseView* method), 82
`get_value()` (*klovve.data.value_holder.ComputedValue* method), 17
`get_value()` (*klovve.data.value_holder.OneWayBinding* method), 17
`get_value()` (*klovve.data.value_holder.ValueHolder* method), 17
`get_width()` (*klovve.drivers.curses.viwid.screen.AutoRootAlignmentSizing* method), 49
`get_width()` (*klovve.drivers.curses.viwid.screen.ByScreenRootAlignmentSizing* method), 49
`get_width()` (*klovve.drivers.curses.viwid.screen.FixedRootAlignmentSizing* method), 50
`get_width()` (*klovve.drivers.curses.viwid.screen.RootAlignmentSizing* method), 51
`get_x()` (*klovve.drivers.curses.viwid.screen.AnchorRootAlignmentPositioning* method), 49
`get_x()` (*klovve.drivers.curses.viwid.screen.CenterRootAlignmentPositioning* method), 49
`get_x()` (*klovve.drivers.curses.viwid.screen.FixedRootAlignmentPositioning* method), 50
`get_x()` (*klovve.drivers.curses.viwid.screen.RootAlignmentPositioning* method), 50
`get_y()` (*klovve.drivers.curses.viwid.screen.AnchorRootAlignmentPositioning* method), 49
`get_y()` (*klovve.drivers.curses.viwid.screen.CenterRootAlignmentPositioning* method), 49
`get_y()` (*klovve.drivers.curses.viwid.screen.FixedRootAlignmentPositioning* method), 50
`get_y()` (*klovve.drivers.curses.viwid.screen.RootAlignmentPositioning* method), 50
`GridLayout` (class in *klovve.drivers.curses.viwid.layout*), 48
`gtk_new()` (*klovve.drivers.gtk.View* static method), 53
`gtk_orientation` (*klovve.drivers.gtk.views.busy_animation.Model* property), 59
`gtk_orientation()` (*klovve.drivers.curses.views.busy_animation.Model* method), 25

H

`handle_event()` (*klovve.drivers.curses.viwid.screen.Screen* static method), 51
`height` (*klovve.drivers.curses.viwid.Rectangle* property), 32
`height` (*klovve.drivers.curses.viwid.Size* property), 32
`hint_text` (*klovve.pieces.text_field.Model* property), 77
`HORIZONTAL` (*klovve.drivers.curses.viwid.widgets.box.Orientation* attribute), 37
`HORIZONTAL` (*klovve.pieces.busy_animation.Model.Orientation* attribute), 70
`horizontal_alignment` (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 43
`horizontal_expand_greedily` (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 43
`horizontally_scrollable` (*klovve.drivers.curses.viwid.widgets.scrollable.Scrollable* property), 40

I

`icon` (*klovve.pieces.window.Model* property), 78
`Image` (class in *klovve.drivers.gtk.views.viewer.image*), 57
`image_coordinates_to_display_coordinates()` (*klovve.drivers.gtk.views.viewer.image.Image* method), 57
`image_offset_x` (*klovve.drivers.gtk.views.viewer.image.Image* attribute), 57
`image_offset_y` (*klovve.drivers.gtk.views.viewer.image.Image* attribute), 57
`in_mainloop()` (in module *klovve.application*), 79
`in_mainloop2()` (in module *klovve.application*), 79
`inner_size` (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 43
`inner_view` (*klovve.pieces.interact.abstract.Model* property), 66
`insert()` (*klovve.data.lists.List* method), 12
`insert()` (*klovve.drivers.curses.viwid.data.List* method), 47
`interrupt_glib_mainloop()` (*klovve.drivers.gtk._Selector* method), 54
`is_answered` (*klovve.pieces.interact.Model* property), 66
`is_checked` (*klovve.pieces.checkable.Model* property), 71
`is_closed` (*klovve.pieces.window.Model* property), 78
`is_disabled` (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 43
`is_disabled` (*klovve.pieces.disableable.Model* property), 72

is_propagation_stopped (klovve.drivers.curses.viwid.event.base.OngoingEvent property), 35
 is_selected (klovve.drivers.curses.viwid.widgets.list.ListRow property), 39
 is_settable() (klovve.data.value_holder.ComputedValue method), 17
 is_settable() (klovve.data.value_holder.OneWayBinding method), 17
 is_settable() (klovve.data.value_holder.TwoWayBinding method), 17
 is_settable() (klovve.data.value_holder.ValueHolder method), 17
 item (klovve.drivers.curses.viwid.widgets.frame.Frame property), 38
 item (klovve.drivers.curses.viwid.widgets.scrollable.Scrollable property), 40
 item (klovve.pieces.disableable.Model property), 72
 item (klovve.pieces.form.section.Model property), 65
 item (klovve.pieces.placeholder.Model property), 76
 item (klovve.pieces.scrollable.Model property), 76
 item (klovve.pieces.tabbed.tab.Model property), 69
 item1 (klovve.pieces.split.Model property), 77
 item2 (klovve.pieces.split.Model property), 77
 item_actions (klovve.pieces.list.Model property), 75
 item_actions (klovve.pieces.list_panel.Model property), 75
 item_added() (klovve.data.lists.ListObserver method), 12
 item_added() (klovve.drivers.curses.viwid.data.ListObserver method), 47
 item_label_func (klovve.pieces.dropdown.Model property), 72
 item_label_func (klovve.pieces.list.Model property), 75
 item_label_func (klovve.pieces.list_panel.Model property), 75
 item_moved() (klovve.data.lists.ListObserver method), 12
 item_removed() (klovve.data.lists.ListObserver method), 13
 item_removed() (klovve.drivers.curses.viwid.data.ListObserver method), 47
 item_replaced() (klovve.data.lists.ListObserver method), 13
 item_replaced() (klovve.drivers.curses.viwid.data.ListObserver method), 47
 items (klovve.drivers.curses.viwid.widgets.dropdown.DropDown property), 38
 items (klovve.drivers.curses.viwid.widgets.list.List property), 39
 items (klovve.pieces.dropdown.Model property), 72
 items (klovve.pieces.form.Model property), 65
 items (klovve.pieces.horizontal_box.Model property), 74
 items (klovve.pieces.list.Model property), 75
 items (klovve.pieces.list_panel.Model property), 75
 items (klovve.pieces.tabbed.Model property), 69
 items (klovve.pieces.vertical_box.Model property), 78
 J
 jump() (klovve.drivers.curses.viwid.widgets.widget.Widget.Part method), 41
 K
 key (klovve.drivers.curses.viwid.event.input.KeyboardOngoingEvent property), 36
 KeyboardOngoingEvent (class in klovve.drivers.curses.viwid.event.input), 36
 klovve
 module, 9
 klovve.application
 module, 79
 klovve.data
 module, 9
 klovve.data.deps
 module, 9
 klovve.data.lists
 module, 11
 klovve.data.model
 module, 13
 klovve.data.observable_value
 module, 16
 klovve.data.reaction
 module, 16
 klovve.data.value_holder
 module, 17
 klovve.debug
 module, 80
 klovve.drivers
 module, 18
 klovve.drivers.bare_terminal
 module, 18
 klovve.drivers.bare_terminal.views
 module, 19
 klovve.drivers.bare_terminal.views.checkable
 module, 19
 klovve.drivers.bare_terminal.views.headered_panel
 module, 20
 klovve.drivers.bare_terminal.views.interact
 module, 19
 klovve.drivers.bare_terminal.views.interact.abstract
 module, 19
 klovve.drivers.bare_terminal.views.label
 module, 20
 klovve.drivers.bare_terminal.views.log_pager
 module, 20
 klovve.drivers.bare_terminal.views.placeholder
 module, 21

klovve.drivers.bare_terminal.views.split module, 21	klovve.drivers.curses.views.progress module, 29
klovve.drivers.bare_terminal.views.vertical_box module, 21	klovve.drivers.curses.views.property_panel module, 24
klovve.drivers.bare_terminal.views.viewer module, 19	klovve.drivers.curses.views.scrollable module, 29
klovve.drivers.bare_terminal.views.viewer.image module, 19	klovve.drivers.curses.views.slider module, 30
klovve.drivers.bare_terminal.views.window module, 21	klovve.drivers.curses.views.split module, 30
klovve.drivers.curses module, 22	klovve.drivers.curses.views.tabbed module, 24
klovve.drivers.curses.views module, 22	klovve.drivers.curses.views.tabbed.tab module, 24
klovve.drivers.curses.views._curses_private module, 22	klovve.drivers.curses.views.text_field module, 30
klovve.drivers.curses.views._curses_private_box module, 22	klovve.drivers.curses.views.vertical_box module, 30
klovve.drivers.curses.views.busy_animation module, 25	klovve.drivers.curses.views.viewer module, 24
klovve.drivers.curses.views.button module, 25	klovve.drivers.curses.views.viewer.image module, 24
klovve.drivers.curses.views.checkable module, 26	klovve.drivers.curses.views.viewer.pdf module, 25
klovve.drivers.curses.views.disableable module, 26	klovve.drivers.curses.views.window module, 31
klovve.drivers.curses.views.dropdown module, 26	klovve.drivers.curses.viwid module, 31
klovve.drivers.curses.views.dual module, 27	klovve.drivers.curses.viwid.canvas module, 45
klovve.drivers.curses.views.form module, 23	klovve.drivers.curses.viwid.data module, 47
klovve.drivers.curses.views.form.section module, 23	klovve.drivers.curses.viwid.drivers module, 33
klovve.drivers.curses.views.formatted_text module, 27	klovve.drivers.curses.viwid.drivers.curses module, 33
klovve.drivers.curses.views.header module, 27	klovve.drivers.curses.viwid.drivers.driver module, 35
klovve.drivers.curses.views.headered_panel module, 27	klovve.drivers.curses.viwid.event module, 35
klovve.drivers.curses.views.horizontal_box module, 28	klovve.drivers.curses.viwid.event.base module, 35
klovve.drivers.curses.views.interact module, 23	klovve.drivers.curses.viwid.event.input module, 36
klovve.drivers.curses.views.interact.abstract module, 23	klovve.drivers.curses.viwid.layout module, 48
klovve.drivers.curses.views.label module, 28	klovve.drivers.curses.viwid.loop module, 49
klovve.drivers.curses.views.list module, 28	klovve.drivers.curses.viwid.screen module, 49
klovve.drivers.curses.views.log_pager module, 29	klovve.drivers.curses.viwid.style module, 52
klovve.drivers.curses.views.placeholder module, 29	klovve.drivers.curses.viwid.widgets module, 36

klovve.drivers.curses.viwid.widgets.box module, 36	klovve.drivers.gtk.views.headered_panel module, 61
klovve.drivers.curses.viwid.widgets.busy_animation module, 37	klovve.drivers.gtk.views.horizontal_box module, 62
klovve.drivers.curses.viwid.widgets.button module, 37	klovve.drivers.gtk.views.interact module, 56
klovve.drivers.curses.viwid.widgets.check_button module, 37	klovve.drivers.gtk.views.interact.abstract module, 56
klovve.drivers.curses.viwid.widgets.dropdown module, 38	klovve.drivers.gtk.views.label module, 62
klovve.drivers.curses.viwid.widgets.entry module, 38	klovve.drivers.gtk.views.list module, 62
klovve.drivers.curses.viwid.widgets.frame module, 38	klovve.drivers.gtk.views.log_pager module, 63
klovve.drivers.curses.viwid.widgets.label module, 39	klovve.drivers.gtk.views.placeholder module, 63
klovve.drivers.curses.viwid.widgets.list module, 39	klovve.drivers.gtk.views.progress_bar module, 63
klovve.drivers.curses.viwid.widgets.progress_bar module, 39	klovve.drivers.gtk.views.property_panel module, 56
klovve.drivers.curses.viwid.widgets.radio_button module, 40	klovve.drivers.gtk.views.scrollable module, 63
klovve.drivers.curses.viwid.widgets.scrollable module, 40	klovve.drivers.gtk.views.slider module, 64
klovve.drivers.curses.viwid.widgets.widget module, 40	klovve.drivers.gtk.views.split module, 64
klovve.drivers.gtk module, 53	klovve.drivers.gtk.views.tabbed module, 56
klovve.drivers.gtk.views module, 55	klovve.drivers.gtk.views.tabbed.tab module, 57
klovve.drivers.gtk.views._gtk_private module, 55	klovve.drivers.gtk.views.text_field module, 64
klovve.drivers.gtk.views._gtk_private.box module, 55	klovve.drivers.gtk.views.vertical_box module, 64
klovve.drivers.gtk.views.busy_animation module, 59	klovve.drivers.gtk.views.viewer module, 57
klovve.drivers.gtk.views.button module, 59	klovve.drivers.gtk.views.viewer.image module, 57
klovve.drivers.gtk.views.checkable module, 60	klovve.drivers.gtk.views.viewer.pdf module, 59
klovve.drivers.gtk.views.disableable module, 60	klovve.drivers.gtk.views.window module, 65
klovve.drivers.gtk.views.dropdown module, 60	klovve.pieces module, 65
klovve.drivers.gtk.views.dual module, 61	klovve.pieces.busy_animation module, 70
klovve.drivers.gtk.views.form module, 55	klovve.pieces.button module, 71
klovve.drivers.gtk.views.form.section module, 55	klovve.pieces.checkable module, 71
klovve.drivers.gtk.views.formatted_text module, 61	klovve.pieces.disableable module, 72
klovve.drivers.gtk.views.header module, 61	klovve.pieces.dropdown module, 72

klovve.pieces.dual
 module, 72
 klovve.pieces.form
 module, 65
 klovve.pieces.form.section
 module, 65
 klovve.pieces.formatted_text
 module, 73
 klovve.pieces.header
 module, 73
 klovve.pieces.headered_panel
 module, 73
 klovve.pieces.horizontal_box
 module, 74
 klovve.pieces.interact
 module, 66
 klovve.pieces.interact.abstract
 module, 66
 klovve.pieces.interact.message
 module, 66
 klovve.pieces.interact.textline
 module, 67
 klovve.pieces.interact.triggers
 module, 67
 klovve.pieces.interact.yesno
 module, 67
 klovve.pieces.label
 module, 74
 klovve.pieces.list
 module, 75
 klovve.pieces.list_panel
 module, 75
 klovve.pieces.log_pager
 module, 67
 klovve.pieces.log_pager.entry
 module, 68
 klovve.pieces.placeholder
 module, 76
 klovve.pieces.progress
 module, 76
 klovve.pieces.property_panel
 module, 68
 klovve.pieces.property_panel.entry
 module, 69
 klovve.pieces.scrollable
 module, 76
 klovve.pieces.slider
 module, 77
 klovve.pieces.split
 module, 77
 klovve.pieces.tabbed
 module, 69
 klovve.pieces.tabbed.tab
 module, 69

klovve.pieces.text_field
 module, 77
 klovve.pieces.vertical_box
 module, 78
 klovve.pieces.viewer
 module, 70
 klovve.pieces.viewer.image
 module, 70
 klovve.pieces.viewer.pdf
 module, 70
 klovve.pieces.window
 module, 78
 klovve.threading_
 module, 80
 klovve.type_loader
 module, 80
 klovve.view
 module, 82

L

Label (*class in klovve.drivers.curses.viwid.widgets.label*), 39
 label (*klovve.pieces.form.section.Model property*), 65
 label (*klovve.pieces.property_panel.entry.Model property*), 69
 label (*klovve.pieces.tabbed.tab.Model property*), 69
 LARGE (*klovve.pieces.busy_animation.Model.Size attribute*), 71
 Layout (*class in klovve.drivers.curses.viwid.layout*), 48
 layout (*klovve.drivers.curses.viwid.widgets.widget.Widget property*), 43
 left_button (*klovve.drivers.curses.viwid.event.input.MouseClickOngoing property*), 36
 left_x (*klovve.drivers.curses.viwid.Rectangle property*), 32
 List (*class in klovve.data.lists*), 11
 List (*class in klovve.drivers.curses.viwid.data*), 47
 List (*class in klovve.drivers.curses.viwid.widgets.list*), 39
 list_actions (*klovve.pieces.list.Model property*), 75
 list_actions (*klovve.pieces.list_panel.Model property*), 75
 listen_property() (*klovve.drivers.curses.viwid.widgets.widget.Widget method*), 43
 ListObserver (*class in klovve.data.lists*), 12
 ListObserver (*class in klovve.drivers.curses.viwid.data*), 47
 ListProperty (*class in klovve.data.model*), 14
 ListProperty() (*in klovve.drivers.curses.viwid.widgets.widget module*), 40
 ListProperty() (*klovve.drivers.curses.viwid.widgets.widget.Widget method*), 40
 ListRow (*class in klovve.drivers.curses.viwid.widgets.list*), 39

Loop (class in klovve.drivers.curses.viwid.loop), 49
loop (klovve.drivers.curses.viwid.drivers.curses.Driver
property), 33
loop (klovve.drivers.curses.viwid.drivers.driver.Driver
property), 35

M

main_item (klovve.pieces.dual.Model property), 72
mainloop (klovve.drivers.Driver property), 18
MainloopObjectProxy (class in klovve.application), 79
materialize() (klovve.drivers.curses.viwid.widgets.widget.Widget
method), 43
max_value (klovve.pieces.slider.Model property), 77
MEDIUM (klovve.pieces.busy_animation.Model.Size
attribute), 71
message (klovve.pieces.interact.abstract.Model prop-
erty), 66
message (klovve.pieces.interact.message.Model prop-
erty), 66
message (klovve.pieces.interact.textline.Model property),
67
message (klovve.pieces.interact.triggers.Model prop-
erty), 67
message (klovve.pieces.interact.yesno.Model property),
67
message (klovve.pieces.log_pager.entry.Model property),
68
min_value (klovve.pieces.slider.Model property), 77
Model (class in klovve.data.model), 14
Model (class in klovve.drivers.curses.views.busy_animation),
25
Model (class in klovve.drivers.curses.views.headered_panel),
27
Model (class in klovve.drivers.gtk.views.busy_animation),
59
Model (class in klovve.drivers.gtk.views.headered_panel),
61
Model (class in klovve.pieces.busy_animation), 70
Model (class in klovve.pieces.button), 71
Model (class in klovve.pieces.checkable), 71
Model (class in klovve.pieces.disableable), 72
Model (class in klovve.pieces.dropdown), 72
Model (class in klovve.pieces.dual), 72
Model (class in klovve.pieces.form), 65
Model (class in klovve.pieces.form.section), 65
Model (class in klovve.pieces.formatted_text), 73
Model (class in klovve.pieces.header), 73
Model (class in klovve.pieces.headered_panel), 73
Model (class in klovve.pieces.horizontal_box), 74
Model (class in klovve.pieces.interact), 66
Model (class in klovve.pieces.interact.abstract), 66
Model (class in klovve.pieces.interact.message), 66
Model (class in klovve.pieces.interact.textline), 67
Model (class in klovve.pieces.interact.triggers), 67
Model (class in klovve.pieces.interact.yesno), 67
Model (class in klovve.pieces.label), 74
Model (class in klovve.pieces.list), 75
Model (class in klovve.pieces.list_panel), 75
Model (class in klovve.pieces.log_pager), 67
Model (class in klovve.pieces.log_pager.entry), 68
Model (class in klovve.pieces.placeholder), 76
Model (class in klovve.pieces.progress), 76
Model (class in klovve.pieces.property_panel), 68
Model (class in klovve.pieces.property_panel.entry), 69
Model (class in klovve.pieces.scrollable), 76
Model (class in klovve.pieces.slider), 77
Model (class in klovve.pieces.split), 77
Model (class in klovve.pieces.tabbed), 69
Model (class in klovve.pieces.tabbed.tab), 69
Model (class in klovve.pieces.text_field), 77
Model (class in klovve.pieces.vertical_box), 78
Model (class in klovve.pieces.viewer.image), 70
Model (class in klovve.pieces.viewer.pdf), 70
Model (class in klovve.pieces.window), 78
model (klovve.drivers.bare_terminal.views.checkable.View
attribute), 20
model (klovve.drivers.bare_terminal.views.headered_panel.View
attribute), 20
model (klovve.drivers.bare_terminal.views.interact.abstract.View
attribute), 19
model (klovve.drivers.bare_terminal.views.label.View at-
tribute), 20
model (klovve.drivers.bare_terminal.views.log_pager.View
attribute), 20
model (klovve.drivers.bare_terminal.views.placeholder.View
attribute), 21
model (klovve.drivers.bare_terminal.views.split.View at-
tribute), 21
model (klovve.drivers.bare_terminal.views.vertical_box.View
attribute), 21
model (klovve.drivers.bare_terminal.views.viewer.image.View
attribute), 19
model (klovve.drivers.bare_terminal.views.window.View
attribute), 21
model (klovve.drivers.curses.views.busy_animation.View
attribute), 25
model (klovve.drivers.curses.views.button.View at-
tribute), 26
model (klovve.drivers.curses.views.checkable.View
attribute), 26
model (klovve.drivers.curses.views.disableable.View at-
tribute), 26
model (klovve.drivers.curses.views.dropdown.View
attribute), 26
model (klovve.drivers.curses.views.dual.View attribute),
27
model (klovve.drivers.curses.views.form.section.View at-
tribute), 23

<code>model</code> (<i>klovve.drivers.curses.views.form.View</i> attribute), 23	<code>model</code> (<i>klovve.drivers.gtk.views.form.section.View</i> attribute), 56
<code>model</code> (<i>klovve.drivers.curses.views.formatted_text.View</i> attribute), 27	<code>model</code> (<i>klovve.drivers.gtk.views.form.View</i> attribute), 55
<code>model</code> (<i>klovve.drivers.curses.views.header.View</i> attribute), 27	<code>model</code> (<i>klovve.drivers.gtk.views.formatted_text.View</i> attribute), 61
<code>model</code> (<i>klovve.drivers.curses.views.headered_panel.View</i> attribute), 28	<code>model</code> (<i>klovve.drivers.gtk.views.header.View</i> attribute), 61
<code>model</code> (<i>klovve.drivers.curses.views.horizontal_box.View</i> attribute), 28	<code>model</code> (<i>klovve.drivers.gtk.views.headered_panel.View</i> attribute), 62
<code>model</code> (<i>klovve.drivers.curses.views.interact.abstract.View</i> attribute), 23	<code>model</code> (<i>klovve.drivers.gtk.views.horizontal_box.View</i> attribute), 62
<code>model</code> (<i>klovve.drivers.curses.views.label.View</i> attribute), 28	<code>model</code> (<i>klovve.drivers.gtk.views.interact.abstract.View</i> attribute), 56
<code>model</code> (<i>klovve.drivers.curses.views.list.View</i> attribute), 28	<code>model</code> (<i>klovve.drivers.gtk.views.label.View</i> attribute), 62
<code>model</code> (<i>klovve.drivers.curses.views.log_pager.View</i> attribute), 29	<code>model</code> (<i>klovve.drivers.gtk.views.list.View</i> attribute), 62
<code>model</code> (<i>klovve.drivers.curses.views.placeholder.View</i> attribute), 29	<code>model</code> (<i>klovve.drivers.gtk.views.log_pager.View</i> attribute), 63
<code>model</code> (<i>klovve.drivers.curses.views.progress.View</i> attribute), 29	<code>model</code> (<i>klovve.drivers.gtk.views.placeholder.View</i> attribute), 63
<code>model</code> (<i>klovve.drivers.curses.views.property_panel.View</i> attribute), 24	<code>model</code> (<i>klovve.drivers.gtk.views.progress.View</i> attribute), 63
<code>model</code> (<i>klovve.drivers.curses.views.scrollable.View</i> attribute), 29	<code>model</code> (<i>klovve.drivers.gtk.views.property_panel.View</i> attribute), 56
<code>model</code> (<i>klovve.drivers.curses.views.slider.View</i> attribute), 30	<code>model</code> (<i>klovve.drivers.gtk.views.scrollable.View</i> attribute), 63
<code>model</code> (<i>klovve.drivers.curses.views.split.View</i> attribute), 30	<code>model</code> (<i>klovve.drivers.gtk.views.slider.View</i> attribute), 64
<code>model</code> (<i>klovve.drivers.curses.views.tabbed.tab.View</i> attribute), 24	<code>model</code> (<i>klovve.drivers.gtk.views.split.View</i> attribute), 64
<code>model</code> (<i>klovve.drivers.curses.views.tabbed.View</i> attribute), 24	<code>model</code> (<i>klovve.drivers.gtk.views.tabbed.tab.View</i> attribute), 57
<code>model</code> (<i>klovve.drivers.curses.views.text_field.View</i> attribute), 30	<code>model</code> (<i>klovve.drivers.gtk.views.tabbed.View</i> attribute), 56
<code>model</code> (<i>klovve.drivers.curses.views.vertical_box.View</i> attribute), 30	<code>model</code> (<i>klovve.drivers.gtk.views.text_field.View</i> attribute), 64
<code>model</code> (<i>klovve.drivers.curses.views.viewer.image.View</i> attribute), 24	<code>model</code> (<i>klovve.drivers.gtk.views.vertical_box.View</i> attribute), 64
<code>model</code> (<i>klovve.drivers.curses.views.viewer.pdf.View</i> attribute), 25	<code>model</code> (<i>klovve.drivers.gtk.views.viewer.image.View</i> attribute), 59
<code>model</code> (<i>klovve.drivers.curses.views.window.View</i> attribute), 31	<code>model</code> (<i>klovve.drivers.gtk.views.viewer.pdf.View</i> attribute), 59
<code>model</code> (<i>klovve.drivers.gtk.views.busy_animation.View</i> attribute), 59	<code>model</code> (<i>klovve.drivers.gtk.views.window.View</i> attribute), 65
<code>model</code> (<i>klovve.drivers.gtk.views.button.View</i> attribute), 60	<code>model</code> (<i>klovve.pieces.busy_animation.View</i> attribute), 71
<code>model</code> (<i>klovve.drivers.gtk.views.checkable.View</i> attribute), 60	<code>model</code> (<i>klovve.pieces.button.View</i> attribute), 71
<code>model</code> (<i>klovve.drivers.gtk.views.disableable.View</i> attribute), 60	<code>model</code> (<i>klovve.pieces.checkable.View</i> attribute), 71
<code>model</code> (<i>klovve.drivers.gtk.views.dropdown.View</i> attribute), 60	<code>model</code> (<i>klovve.pieces.disableable.View</i> attribute), 72
<code>model</code> (<i>klovve.drivers.gtk.views.dual.View</i> attribute), 61	<code>model</code> (<i>klovve.pieces.dropdown.View</i> attribute), 72
	<code>model</code> (<i>klovve.pieces.dual.View</i> attribute), 72
	<code>model</code> (<i>klovve.pieces.form.section.View</i> attribute), 66
	<code>model</code> (<i>klovve.pieces.form.View</i> attribute), 65
	<code>model</code> (<i>klovve.pieces.formatted_text.View</i> attribute), 73
	<code>model</code> (<i>klovve.pieces.header.View</i> attribute), 73
	<code>model</code> (<i>klovve.pieces.headered_panel.View</i> attribute), 74
	<code>model</code> (<i>klovve.pieces.horizontal_box.View</i> attribute), 74
	<code>model</code> (<i>klovve.pieces.interact.abstract.View</i> attribute), 66

`model` (*klovve.pieces.interact.triggers.View attribute*), 67
`model` (*klovve.pieces.label.View attribute*), 74
`model` (*klovve.pieces.list.View attribute*), 75
`model` (*klovve.pieces.log_pager.entry.View attribute*), 68
`model` (*klovve.pieces.log_pager.View attribute*), 68
`model` (*klovve.pieces.placeholder.View attribute*), 76
`model` (*klovve.pieces.progress.View attribute*), 76
`model` (*klovve.pieces.property_panel.entry.View attribute*), 69
`model` (*klovve.pieces.property_panel.View attribute*), 68
`model` (*klovve.pieces.scrollable.View attribute*), 76
`model` (*klovve.pieces.slider.View attribute*), 77
`model` (*klovve.pieces.split.View attribute*), 77
`model` (*klovve.pieces.tabbed.tab.View attribute*), 69
`model` (*klovve.pieces.tabbed.View attribute*), 69
`model` (*klovve.pieces.text_field.View attribute*), 77
`model` (*klovve.pieces.vertical_box.View attribute*), 78
`model` (*klovve.pieces.viewer.image.View attribute*), 70
`model` (*klovve.pieces.viewer.pdf.View attribute*), 70
`model` (*klovve.pieces.window.View attribute*), 78
`model` (*klovve.view.ViewTreeNode property*), 83
`Model.Orientation` (class in *klovve.pieces.busy_animation*), 70
`Model.Size` (class in *klovve.pieces.busy_animation*), 70
`Model.State` (class in *klovve.pieces.headered_panel*), 73
`model_type()` (*klovve.drivers.Driver method*), 18
`model_type()` (*klovve.type_loader.DefaultTypeLoader method*), 80
`model_type()` (*klovve.type_loader.TypeLoader method*), 81
module
 klovve, 9
 klovve.application, 79
 klovve.data, 9
 klovve.data.deps, 9
 klovve.data.lists, 11
 klovve.data.model, 13
 klovve.data.observable_value, 16
 klovve.data.reaction, 16
 klovve.data.value_holder, 17
 klovve.debug, 80
 klovve.drivers, 18
 klovve.drivers.bare_terminal, 18
 klovve.drivers.bare_terminal.views, 19
 klovve.drivers.bare_terminal.views.checkable, 19
 klovve.drivers.bare_terminal.views.headered_panel, 20
 klovve.drivers.bare_terminal.views.interact, 19
 klovve.drivers.bare_terminal.views.interact.abstract, 19
 klovve.drivers.bare_terminal.views.label, 20
 klovve.drivers.bare_terminal.views.log_pager, 20
 klovve.drivers.bare_terminal.views.placeholder, 21
 klovve.drivers.bare_terminal.views.split, 21
 klovve.drivers.bare_terminal.views.vertical_box, 21
 klovve.drivers.bare_terminal.views.viewer, 19
 klovve.drivers.bare_terminal.views.viewer.image, 19
 klovve.drivers.bare_terminal.views.window, 21
 klovve.drivers.curses, 22
 klovve.drivers.curses.views, 22
 klovve.drivers.curses.views._curses_private, 22
 klovve.drivers.curses.views._curses_private.box, 22
 klovve.drivers.curses.views.busy_animation, 25
 klovve.drivers.curses.views.button, 25
 klovve.drivers.curses.views.checkable, 26
 klovve.drivers.curses.views.disableable, 26
 klovve.drivers.curses.views.dropdown, 26
 klovve.drivers.curses.views.dual, 27
 klovve.drivers.curses.views.form, 23
 klovve.drivers.curses.views.form.section, 23
 klovve.drivers.curses.views.formatted_text, 27
 klovve.drivers.curses.views.header, 27
 klovve.drivers.curses.views.headered_panel, 27
 klovve.drivers.curses.views.horizontal_box, 28
 klovve.drivers.curses.views.interact, 23
 klovve.drivers.curses.views.interact.abstract, 23
 klovve.drivers.curses.views.label, 28
 klovve.drivers.curses.views.list, 28
 klovve.drivers.curses.views.log_pager, 29
 klovve.drivers.curses.views.placeholder, 29
 klovve.drivers.curses.views.progress, 29
 klovve.drivers.curses.views.property_panel, 24
 klovve.drivers.curses.views.scrollable, 29
 klovve.drivers.curses.views.slider, 30

klovve.drivers.curses.views.split, 30
 klovve.drivers.curses.views.tabbed, 24
 klovve.drivers.curses.views.tabbed.tab, 24
 klovve.drivers.curses.views.text_field, 30
 klovve.drivers.curses.views.vertical_box, 30
 klovve.drivers.curses.views.viewer, 24
 klovve.drivers.curses.views.viewer.image, 24
 klovve.drivers.curses.views.viewer.pdf, 25
 klovve.drivers.curses.views.window, 31
 klovve.drivers.curses.viwid, 31
 klovve.drivers.curses.viwid.canvas, 45
 klovve.drivers.curses.viwid.data, 47
 klovve.drivers.curses.viwid.drivers, 33
 klovve.drivers.curses.viwid.drivers.curses, 33
 klovve.drivers.curses.viwid.drivers.driver, 35
 klovve.drivers.curses.viwid.event, 35
 klovve.drivers.curses.viwid.event.base, 35
 klovve.drivers.curses.viwid.event.input, 36
 klovve.drivers.curses.viwid.layout, 48
 klovve.drivers.curses.viwid.loop, 49
 klovve.drivers.curses.viwid.screen, 49
 klovve.drivers.curses.viwid.style, 52
 klovve.drivers.curses.viwid.widgets, 36
 klovve.drivers.curses.viwid.widgets.box, 36
 klovve.drivers.curses.viwid.widgets.busy_animation, 37
 klovve.drivers.curses.viwid.widgets.button, 37
 klovve.drivers.curses.viwid.widgets.check_button, 37
 klovve.drivers.curses.viwid.widgets.dropdown, 38
 klovve.drivers.curses.viwid.widgets.entry, 38
 klovve.drivers.curses.viwid.widgets.frame, 38
 klovve.drivers.curses.viwid.widgets.label, 39
 klovve.drivers.curses.viwid.widgets.list, 39
 klovve.drivers.curses.viwid.widgets.progress_bar, 39
 klovve.drivers.curses.viwid.widgets.radio_button, 40
 klovve.drivers.curses.viwid.widgets.scrollable, 40
 klovve.drivers.curses.viwid.widgets.widget, 40
 klovve.drivers.gtk, 53
 klovve.drivers.gtk.views, 55
 klovve.drivers.gtk.views._gtk_private, 55
 klovve.drivers.gtk.views._gtk_private.box, 55
 klovve.drivers.gtk.views.busy_animation, 59
 klovve.drivers.gtk.views.button, 59
 klovve.drivers.gtk.views.checkable, 60
 klovve.drivers.gtk.views.disableable, 60
 klovve.drivers.gtk.views.dropdown, 60
 klovve.drivers.gtk.views.dual, 61
 klovve.drivers.gtk.views.form, 55
 klovve.drivers.gtk.views.form.section, 55
 klovve.drivers.gtk.views.formatted_text, 61
 klovve.drivers.gtk.views.header, 61
 klovve.drivers.gtk.views.headered_panel, 61
 klovve.drivers.gtk.views.horizontal_box, 62
 klovve.drivers.gtk.views.interact, 56
 klovve.drivers.gtk.views.interact.abstract, 56
 klovve.drivers.gtk.views.label, 62
 klovve.drivers.gtk.views.list, 62
 klovve.drivers.gtk.views.log_pager, 63
 klovve.drivers.gtk.views.placeholder, 63
 klovve.drivers.gtk.views.progress, 63
 klovve.drivers.gtk.views.property_panel, 63
 klovve.drivers.gtk.views.scrollable, 63
 klovve.drivers.gtk.views.slider, 64
 klovve.drivers.gtk.views.split, 64
 klovve.drivers.gtk.views.tabbed, 56
 klovve.drivers.gtk.views.tabbed.tab, 57
 klovve.drivers.gtk.views.text_field, 64
 klovve.drivers.gtk.views.vertical_box, 64
 klovve.drivers.gtk.views.viewer, 57
 klovve.drivers.gtk.views.viewer.image, 57
 klovve.drivers.gtk.views.viewer.pdf, 59
 klovve.drivers.gtk.views.window, 65
 klovve.pieces, 65
 klovve.pieces.busy_animation, 70
 klovve.pieces.button, 71
 klovve.pieces.checkable, 71
 klovve.pieces.disableable, 72
 klovve.pieces.dropdown, 72
 klovve.pieces.dual, 72
 klovve.pieces.form, 65

klovve.pieces.form.section, 65
 klovve.pieces.formatted_text, 73
 klovve.pieces.header, 73
 klovve.pieces.headered_panel, 73
 klovve.pieces.horizontal_box, 74
 klovve.pieces.interact, 66
 klovve.pieces.interact.abstract, 66
 klovve.pieces.interact.message, 66
 klovve.pieces.interact.textline, 67
 klovve.pieces.interact.triggers, 67
 klovve.pieces.interact.yesno, 67
 klovve.pieces.label, 74
 klovve.pieces.list, 75
 klovve.pieces.list_panel, 75
 klovve.pieces.log_pager, 67
 klovve.pieces.log_pager.entry, 68
 klovve.pieces.placeholder, 76
 klovve.pieces.progress, 76
 klovve.pieces.property_panel, 68
 klovve.pieces.property_panel.entry, 69
 klovve.pieces.scrollable, 76
 klovve.pieces.slider, 77
 klovve.pieces.split, 77
 klovve.pieces.tabbed, 69
 klovve.pieces.tabbed.tab, 69
 klovve.pieces.text_field, 77
 klovve.pieces.vertical_box, 78
 klovve.pieces.viewer, 70
 klovve.pieces.viewer.image, 70
 klovve.pieces.viewer.pdf, 70
 klovve.pieces.window, 78
 klovve.threading_, 80
 klovve.type_loader, 80
 klovve.view, 82

MouseClickOngoingEvent (class in
 klovve.drivers.curses.viwid.event.input), 36
 move() (klovve.data.lists.List method), 12
 moved_by() (klovve.drivers.curses.viwid.Point method),
 31

N

name (klovve.drivers.curses.viwid.event.base.OngoingEvent
 property), 35
 name (klovve.pieces.property_panel.entry.Model prop-
 erty), 69
 name (klovve.pieces.window.Model property), 78
 name() (klovve.drivers.bare_terminal.Driver static
 method), 18
 name() (klovve.drivers.curses.Driver static method), 22
 name() (klovve.drivers.Driver static method), 18
 name() (klovve.drivers.gtk.Driver static method), 53
 name_tuple (klovve.view.ViewTreeNode property), 83
 new_object_created() (klovve.debug._Memory
 method), 80

no_dependency_tracking() (in module
 klovve.data.deps), 10
 notify_dependency() (in module klovve.data.deps), 11
 notify_property_value_changed() (in module
 klovve.data.deps), 11
 NullLayout (class in klovve.drivers.curses.viwid.layout),
 49

O

ObservableValue (class in
 klovve.data.observable_value), 16
 ObservableValueProtocol (class in
 klovve.data.observable_value), 16
 observe_list() (in module klovve.data.model), 15
 offset (klovve.drivers.curses.viwid.widgets.widget.Widget
 property), 43
 on_click (klovve.drivers.curses.viwid.widgets.button.Button
 property), 37
 on_dematerialized()
 (klovve.drivers.curses.viwid.widgets.widget.Widget
 method), 43
 on_materialized() (klovve.drivers.curses.viwid.widgets.widget.Widget
 method), 43
 on_selection_activated
 (klovve.drivers.curses.viwid.widgets.list.List
 property), 39
 OneWayBinding (class in klovve.data.value_holder), 17
 OngoingEvent (class in
 klovve.drivers.curses.viwid.event.base), 35
 only_single_time (klovve.pieces.log_pager.entry.Model
 property), 68
 only_verbose (klovve.pieces.log_pager.entry.Model
 property), 68
 Orientation (class in
 klovve.drivers.curses.viwid.widgets.box),
 37
 orientation (klovve.drivers.curses.viwid.widgets.box.Box
 property), 37
 orientation (klovve.pieces.busy_animation.Model
 property), 71
 original_image_height
 (klovve.drivers.gtk.views.viewer.image.Image
 property), 57
 original_image_width
 (klovve.drivers.gtk.views.viewer.image.Image
 property), 57
 Outer (class in klovve.drivers.gtk.views.viewer.image), 58

P

paint() (klovve.drivers.curses.viwid.widgets.check_button.CheckButton
 method), 37
 paint() (klovve.drivers.curses.viwid.widgets.entry.Entry
 method), 38

`paint()` (*klovve.drivers.curses.viwid.widgets.frame.Frame* method), 38
`paint()` (*klovve.drivers.curses.viwid.widgets.label.Label* method), 39
`paint()` (*klovve.drivers.curses.viwid.widgets.progress_bar.ProgressBar* method), 39
`paint()` (*klovve.drivers.curses.viwid.widgets.widget.Widget* method), 43
`paint2()` (*klovve.drivers.curses.viwid.widgets.widget.Widget* method), 43
`parent` (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 43
`path` (*klovve.pieces.viewer.pdf.Model* property), 70
`pixbuf` (*klovve.drivers.gtk.views.viewer.image.Image* attribute), 57
`pixbuf` (*klovve.drivers.gtk.views.viewer.image.Outer* attribute), 58
`Point` (class in *klovve.drivers.curses.viwid*), 31
`popup()` (*klovve.drivers.curses.viwid.screen.Screen* method), 51
`position` (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 43
`prepare()` (*klovve.drivers.gtk._Source* method), 54
`process_curses_input()` (*klovve.drivers.curses.viwid.drivers.curses.Driver* method), 33
`progress` (*klovve.pieces.headered_panel.Model* property), 73
`ProgressBar` (class in *klovve.drivers.curses.viwid.widgets.progress_bar*), 39
`Property` (class in *klovve.data.model*), 15
`Property()` (in module *klovve.drivers.curses.viwid.widgets.widget*), 40
`Property()` (*klovve.drivers.curses.viwid.widgets.widget.Widget* method), 41
`PropertyBase` (class in *klovve.data.model*), 15
R
`r` (*klovve.drivers.curses.viwid.canvas.Canvas.Color* attribute), 45
`r` (*klovve.drivers.curses.viwid.canvas.Color* attribute), 46
`RadioButton` (class in *klovve.drivers.curses.viwid.widgets.radio_button*), 40
`rank()` (*klovve.drivers.bare_terminal.Driver* static method), 18
`rank()` (*klovve.drivers.curses.Driver* static method), 22
`rank()` (*klovve.drivers.Driver* static method), 18
`rank()` (*klovve.drivers.gtk.Driver* static method), 53
`reaction()` (in module *klovve.data.reaction*), 16
`Rectangle` (class in *klovve.drivers.curses.viwid*), 31
`refresh_curses_window()` (*klovve.drivers.curses.viwid.drivers.curses.Driver* method), 33
`register()` (*klovve.drivers.gtk._Selector* method), 54
`remove_changed_handler()` (*klovve.data.observable_value.ObservableValue* method), 16
`remove_changed_handler()` (*klovve.data.observable_value.ObservableValueProtocol* method), 16
`remove_fd()` (*klovve.drivers.gtk._Source* method), 54
`repaint_widget_soon()` (*klovve.drivers.curses.viwid.drivers.curses.Driver* method), 33
`repaint_widget_soon()` (*klovve.drivers.curses.viwid.drivers.driver.Driver* method), 35
`request_repaint()` (*klovve.drivers.curses.viwid.widgets.widget.Widget* method), 43
`request_resize()` (*klovve.drivers.curses.viwid.widgets.widget.Widget* method), 43
`resize_widget_soon()` (*klovve.drivers.curses.viwid.drivers.curses.Driver* method), 33
`resize_widget_soon()` (*klovve.drivers.curses.viwid.drivers.driver.Driver* method), 35
`rich` (*klovve.drivers.curses.viwid.canvas.Canvas.FullColor* attribute), 45
`rich` (*klovve.drivers.curses.viwid.canvas.FullColor* attribute), 46
`right_button` (*klovve.drivers.curses.viwid.event.input.MouseClickOngoing* property), 36
`right_x` (*klovve.drivers.curses.viwid.Rectangle* property), 32
`root_style` (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 43
`RootAlignment` (class in *klovve.drivers.curses.viwid.screen*), 50
`RootAlignmentPositioning` (class in *klovve.drivers.curses.viwid.screen*), 50
`RootAlignmentSizing` (class in *klovve.drivers.curses.viwid.screen*), 50
`roots` (*klovve.drivers.curses.viwid.screen.Screen* property), 51
`roots_and_alignments` (*klovve.drivers.curses.viwid.screen.Screen* property), 51
`RootStyle` (class in *klovve.drivers.curses.viwid.style*), 52
`run()` (*klovve.application.ApplicationInternal* method), 79
`run()` (*klovve.drivers.curses.viwid.drivers.curses._Loop* method), 34
`run()` (*klovve.drivers.curses.viwid.loop.Loop* method),

- 49
 running_apps (klovve.application.ApplicationInternal attribute), 79
- ## S
- Screen (class in klovve.drivers.curses.viwid.screen), 51
 screen (klovve.drivers.curses.viwid.widgets.widget.Widget property), 43
 screen_position (klovve.drivers.curses.viwid.event.input.ScrollOngoingEvent property), 36
 screen_position (klovve.drivers.curses.viwid.event.input.ScrollOngoingEvent property), 36
 screens (klovve.drivers.curses.viwid.drivers.curses.Driver property), 33
 screens (klovve.drivers.curses.viwid.drivers.driver.Driver property), 35
 Scrollable (class in klovve.drivers.curses.viwid.widgets.scrollable), 40
 ScrollOngoingEvent (class in klovve.drivers.curses.viwid.event.input), 36
 select() (klovve.drivers.gtk._Selector method), 54
 selected_index (klovve.drivers.curses.viwid.widgets.dropdown.Model property), 38
 selected_item (klovve.drivers.curses.viwid.widgets.dropdown.Model property), 38
 selected_item (klovve.pieces.dropdown.Model property), 72
 selected_item (klovve.pieces.list.Model property), 75
 selected_item (klovve.pieces.list_panel.Model property), 75
 selected_item_index (klovve.drivers.curses.viwid.widgets.list.List property), 39
 selected_items (klovve.pieces.list.Model property), 75
 set_answer() (klovve.pieces.interact.Model method), 66
 set_inner_size() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 43
 set_layout() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 43
 set_offset() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 43
 set_parent() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 44
 set_position() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 44
 set_root_style() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 44
 set_size() (klovve.drivers.curses.viwid.layout.GridLayout method), 48
 set_size() (klovve.drivers.curses.viwid.layout.Layout method), 48
 set_size() (klovve.drivers.curses.viwid.layout.NullLayout method), 49
 set_size() (klovve.drivers.curses.viwid.widgets.frame.Frame method), 38
 set_size() (klovve.drivers.curses.viwid.widgets.scrollable.Scrollable method), 40
 set_size() (klovve.drivers.curses.viwid.widgets.widget.Widget method), 44
 set_source() (klovve.drivers.gtk.views.viewer.image.Outer method), 58
 set_value() (klovve.data.value_holder.ComputedValue method), 17
 set_value() (klovve.data.value_holder.OneWayBinding method), 17
 set_value() (klovve.data.value_holder.ValueHolder method), 17
 show_window() (klovve.drivers.bare_terminal.Driver method), 18
 show_window() (klovve.drivers.curses.Driver method), 22
 show_window() (klovve.drivers.Driver method), 18
 show_window() (klovve.drivers.gtk.Driver method), 53
 side_item (klovve.pieces.dual.Model property), 72
 signed_start_size (klovve.debug._Memory property), 80
 Size (class in klovve.drivers.curses.viwid), 32
 size (klovve.drivers.curses.viwid.drivers.curses._Screen property), 34
 size (klovve.drivers.curses.viwid.screen.Screen property), 51
 size (klovve.drivers.curses.viwid.widgets.widget.Widget property), 44
 size (klovve.pieces.busy_animation.Model property), 71
 sleep_until_stopped() (klovve.application.Application method), 79
 sleep_until_stopped() (klovve.application.ApplicationInternal method), 79
 SMALL (klovve.pieces.busy_animation.Model.Size attribute), 71
 source (klovve.drivers.gtk.views.viewer.image.Outer attribute), 58
 source (klovve.pieces.viewer.image.Model property), 70
 spinner_size (klovve.drivers.gtk.views.busy_animation.Model property), 59
 spinner_size() (klovve.drivers.curses.views.busy_animation.Model method), 25
 START (klovve.drivers.curses.viwid.widgets.widget.Alignment attribute), 40
 start() (klovve.application.Application method), 79
 start() (klovve.application.ApplicationInternal method), 79
 state (klovve.pieces.headered_panel.Model property), 73
 step_value (klovve.pieces.slider.Model property), 77
 STOP (klovve.drivers.curses.viwid.widgets.widget.Alignment

- attribute*), 40
 - `stop_propagation()` (*klovve.drivers.curses.viwid.event.base.OngoingEvent* method), 35
 - `Style` (class in *klovve.drivers.curses.viwid.style*), 52
 - `style` (*klovve.drivers.curses.viwid.screen.Screen* property), 51
 - `style_atom` (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 44
 - `style_atom_by_name()` (*klovve.drivers.curses.viwid.widgets.widget.Widget* method), 44
 - `StyleAtom` (class in *klovve.drivers.curses.viwid.style*), 53
 - `SUCCESSFUL` (*klovve.pieces.headered_panel.Model.State* attribute), 73
 - `SUCCESSFUL_WITH_WARNING` (*klovve.pieces.headered_panel.Model.State* attribute), 73
 - `suggestion` (*klovve.pieces.interact.textline.Model* property), 67
- ## T
- `text` (*klovve.drivers.curses.viwid.widgets.entry.Entry* property), 38
 - `text` (*klovve.drivers.curses.viwid.widgets.label.Label* property), 39
 - `text` (*klovve.pieces.busy_animation.Model* property), 71
 - `text` (*klovve.pieces.button.Model* property), 71
 - `text` (*klovve.pieces.checkable.Model* property), 71
 - `text` (*klovve.pieces.formatted_text.Model* property), 73
 - `text` (*klovve.pieces.header.Model* property), 73
 - `text` (*klovve.pieces.label.Model* property), 74
 - `text` (*klovve.pieces.text_field.Model* property), 77
 - `text()` (*klovve.drivers.curses.viwid.canvas.Canvas* method), 46
 - `text()` (*klovve.drivers.curses.viwid.drivers.curses._Canvas* method), 33
 - `ThreadingError`, 80
 - `TINY` (*klovve.pieces.busy_animation.Model.Size* attribute), 71
 - `title` (*klovve.pieces.headered_panel.Model* property), 74
 - `title` (*klovve.pieces.window.Model* property), 78
 - `title2` (*klovve.pieces.window.Model* property), 78
 - `title_label_background` (*klovve.drivers.curses.views.headered_panel.Model* property), 27
 - `title_label_css_classes` (*klovve.drivers.gtk.views.headered_panel.Model* property), 61
 - `title_secondary_items` (*klovve.pieces.headered_panel.Model* property), 74
 - `top_left` (*klovve.drivers.curses.viwid.Rectangle* property), 32
 - `top_y` (*klovve.drivers.curses.viwid.Rectangle* property), 32
 - `topmost` (*klovve.drivers.curses.viwid.screen.Screen* property), 51
 - `translate_coordinates()` (*klovve.drivers.curses.viwid.screen.Screen* method), 51
 - `translate_coordinates_with_visibility_check()` (*klovve.drivers.curses.viwid.screen.Screen* method), 52
 - `triggers` (*klovve.pieces.interact.abstract.Model* property), 66
 - `triggers` (*klovve.pieces.interact.triggers.Model* property), 67
 - `try_focus()` (*klovve.drivers.curses.viwid.widgets.widget.Widget* method), 44
 - `TwoWayBinding` (class in *klovve.data.value_holder*), 17
 - `TypeLoader` (class in *klovve.type_loader*), 81
- ## U
- `unregister()` (*klovve.drivers.gtk._Selector* method), 54
 - `update()` (*klovve.data.lists.List* method), 12
 - `update()` (*klovve.drivers.curses.viwid.data.List* method), 47
 - `update()` (*klovve.drivers.curses.viwid.screen.Screen* method), 52
 - `update_curses_screensize()` (*klovve.drivers.curses.viwid.drivers.curses._Screen* method), 34
- ## V
- `value` (*klovve.data.reaction._ReactionModel* property), 16
 - `value` (*klovve.drivers.curses.viwid.widgets.progress_bar.ProgressBar* property), 39
 - `value` (*klovve.pieces.interact.textline.View.TModel* property), 67
 - `value` (*klovve.pieces.progress.Model* property), 76
 - `value` (*klovve.pieces.slider.Model* property), 77
 - `ValueHolder` (class in *klovve.data.value_holder*), 17
 - `values` (*klovve.pieces.property_panel.Model* property), 68
 - `verify_correct_thread()` (in module *klovve.threading_*), 80
 - `VERTICAL` (*klovve.drivers.curses.viwid.widgets.box.Orientation* attribute), 37
 - `VERTICAL` (*klovve.pieces.busy_animation.Model.Orientation* attribute), 70
 - `vertical_alignment` (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 44
 - `vertical_expand_greedily` (*klovve.drivers.curses.viwid.widgets.widget.Widget* property), 44

vertically_scrollable
 (klovve.drivers.curses.vivid.widgets.scrollable.Scrollable
 property), 40
 View (class in klovve.drivers.bare_terminal.views.checkable), 19
 View (class in klovve.drivers.bare_terminal.views.headered_button), 20
 View (class in klovve.drivers.bare_terminal.views.interact.abstract), 19
 View (class in klovve.drivers.bare_terminal.views.label), 20
 View (class in klovve.drivers.bare_terminal.views.log_pager), 20
 View (class in klovve.drivers.bare_terminal.views.placeholder), 21
 View (class in klovve.drivers.bare_terminal.views.split), 21
 View (class in klovve.drivers.bare_terminal.views.vertical_box), 21
 View (class in klovve.drivers.bare_terminal.views.viewer.image), 19
 View (class in klovve.drivers.bare_terminal.views.window), 21
 View (class in klovve.drivers.curses), 22
 View (class in klovve.drivers.curses.views._curses_private.button), 22
 View (class in klovve.drivers.curses.views.busy_animation), 25
 View (class in klovve.drivers.curses.views.button), 25
 View (class in klovve.drivers.curses.views.checkable), 26
 View (class in klovve.drivers.curses.views.disableable), 26
 View (class in klovve.drivers.curses.views.dropdown), 26
 View (class in klovve.drivers.curses.views.dual), 27
 View (class in klovve.drivers.curses.views.form), 23
 View (class in klovve.drivers.curses.views.form.section), 23
 View (class in klovve.drivers.curses.views.formatted_text), 27
 View (class in klovve.drivers.curses.views.header), 27
 View (class in klovve.drivers.curses.views.headered_panel), 27
 View (class in klovve.drivers.curses.views.horizontal_box), 28
 View (class in klovve.drivers.curses.views.interact.abstract), 23
 View (class in klovve.drivers.curses.views.label), 28
 View (class in klovve.drivers.curses.views.list), 28
 View (class in klovve.drivers.curses.views.log_pager), 29
 View (class in klovve.drivers.curses.views.placeholder), 29
 View (class in klovve.drivers.curses.views.progress), 29
 View (class in klovve.drivers.curses.views.property_panel), 24
 View (class in klovve.drivers.curses.views.scrollable), 29
 View (class in klovve.drivers.curses.views.slider), 30
 View (class in klovve.drivers.curses.views.split), 30
 View (class in klovve.drivers.curses.views.tabbed), 24
 View (class in klovve.drivers.curses.views.tabbed.tab), 24
 View (class in klovve.drivers.curses.views.text_field), 30
 View (class in klovve.drivers.curses.views.vertical_box), 30
 View (class in klovve.drivers.curses.views.viewer.image), 24
 View (class in klovve.drivers.curses.views.viewer.pdf), 25
 View (class in klovve.drivers.curses.views.window), 31
 View (class in klovve.drivers.gtk), 53
 View (class in klovve.drivers.gtk.views._gtk_private.box), 55
 View (class in klovve.drivers.gtk.views.busy_animation), 59
 View (class in klovve.drivers.gtk.views.button), 59
 View (class in klovve.drivers.gtk.views.checkable), 60
 View (class in klovve.drivers.gtk.views.disableable), 60
 View (class in klovve.drivers.gtk.views.dropdown), 60
 View (class in klovve.drivers.gtk.views.dual), 61
 View (class in klovve.drivers.gtk.views.form), 55
 View (class in klovve.drivers.gtk.views.form.section), 55
 View (class in klovve.drivers.gtk.views.formatted_text), 61
 View (class in klovve.drivers.gtk.views.header), 61
 View (class in klovve.drivers.gtk.views.headered_panel), 61
 View (class in klovve.drivers.gtk.views.horizontal_box), 62
 View (class in klovve.drivers.gtk.views.interact.abstract), 56
 View (class in klovve.drivers.gtk.views.label), 62
 View (class in klovve.drivers.gtk.views.list), 62
 View (class in klovve.drivers.gtk.views.log_pager), 63
 View (class in klovve.drivers.gtk.views.placeholder), 63
 View (class in klovve.drivers.gtk.views.progress), 63
 View (class in klovve.drivers.gtk.views.property_panel), 56
 View (class in klovve.drivers.gtk.views.scrollable), 63
 View (class in klovve.drivers.gtk.views.slider), 64
 View (class in klovve.drivers.gtk.views.split), 64
 View (class in klovve.drivers.gtk.views.tabbed), 56
 View (class in klovve.drivers.gtk.views.tabbed.tab), 57
 View (class in klovve.drivers.gtk.views.text_field), 64
 View (class in klovve.drivers.gtk.views.vertical_box), 64
 View (class in klovve.drivers.gtk.views.viewer.image), 58
 View (class in klovve.drivers.gtk.views.viewer.pdf), 59
 View (class in klovve.drivers.gtk.views.window), 65
 View (class in klovve.pieces.busy_animation), 71
 View (class in klovve.pieces.button), 71
 View (class in klovve.pieces.checkable), 71
 View (class in klovve.pieces.disableable), 72

View (class in klovve.pieces.dropdown), 72
 View (class in klovve.pieces.dual), 72
 View (class in klovve.pieces.form), 65
 View (class in klovve.pieces.form.section), 65
 View (class in klovve.pieces.formatted_text), 73
 View (class in klovve.pieces.header), 73
 View (class in klovve.pieces.headered_panel), 74
 View (class in klovve.pieces.horizontal_box), 74
 View (class in klovve.pieces.interact.abstract), 66
 View (class in klovve.pieces.interact.message), 66
 View (class in klovve.pieces.interact.textline), 67
 View (class in klovve.pieces.interact.triggers), 67
 View (class in klovve.pieces.interact.yesno), 67
 View (class in klovve.pieces.label), 74
 View (class in klovve.pieces.list), 75
 View (class in klovve.pieces.list_panel), 75
 View (class in klovve.pieces.log_pager), 67
 View (class in klovve.pieces.log_pager.entry), 68
 View (class in klovve.pieces.placeholder), 76
 View (class in klovve.pieces.progress), 76
 View (class in klovve.pieces.property_panel), 68
 View (class in klovve.pieces.property_panel.entry), 69
 View (class in klovve.pieces.scrollable), 76
 View (class in klovve.pieces.slider), 77
 View (class in klovve.pieces.split), 77
 View (class in klovve.pieces.tabbed), 69
 View (class in klovve.pieces.tabbed.tab), 69
 View (class in klovve.pieces.text_field), 77
 View (class in klovve.pieces.vertical_box), 78
 View (class in klovve.pieces.viewer.image), 70
 View (class in klovve.pieces.viewer.pdf), 70
 View (class in klovve.pieces.window), 78
 view() (klovve.view.ViewTreeNode method), 83
 View.TModel (class in klovve.pieces.interact.textline), 67
 view_base_type() (klovve.type_loader.DefaultTypeLoader method), 80
 view_base_type() (klovve.type_loader.TypeLoader method), 81
 view_type() (klovve.drivers.Driver method), 18
 view_type() (klovve.type_loader.DefaultTypeLoader method), 80
 view_type() (klovve.type_loader.TypeLoader method), 81
 ViewError, 82
 ViewFactory (class in klovve.view), 82
 ViewFactory._Node (class in klovve.view), 82
 ViewTreeNode (class in klovve.view), 83

W

Widget (class in klovve.drivers.curses.viwid.widgets.widget), 40
 Widget.Parti (class in klovve.drivers.curses.viwid.widgets.widget), 40

width (klovve.drivers.curses.viwid.Rectangle property), 32
 width (klovve.drivers.curses.viwid.Size property), 32
 with_height() (klovve.drivers.curses.viwid.Size method), 32
 with_width() (klovve.drivers.curses.viwid.Size method), 32
 with_x() (klovve.drivers.curses.viwid.Point method), 31
 with_y() (klovve.drivers.curses.viwid.Point method), 31

X

x (klovve.drivers.curses.viwid.Point property), 31

Y

y (klovve.drivers.curses.viwid.Point property), 31

Z

zoom_factor (klovve.drivers.gtk.views.viewer.image.Image attribute), 58
 zoom_in() (klovve.drivers.gtk.views.viewer.image.Image method), 58
 zoom_out() (klovve.drivers.gtk.views.viewer.image.Image method), 58