

---

# **qtypy Documentation**

***Release 1.0.0***

**Jérôme Laheurte**

**Apr 05, 2019**



---

## Contents:

---

<b>1</b>	<b>Application</b>	<b>1</b>
<b>2</b>	<b>Settings</b>	<b>3</b>
<b>3</b>	<b>Layout utilities</b>	<b>7</b>
<b>4</b>	<b>Model/view helpers</b>	<b>11</b>
<b>5</b>	<b>Tag list widget</b>	<b>19</b>
<b>6</b>	<b>Search widget</b>	<b>23</b>
<b>7</b>	<b>Indices and tables</b>	<b>25</b>
	<b>Python Module Index</b>	<b>27</b>



## 1.1 Overview

*qtypy.app.Application* Application class

## 1.2 Reference

**class** `qtypy.app.Application`

Application class

**setup\_i18n** (*locale\_name=None, msg\_path=None*)

Sets up i18n stuff and injects ‘\_’ in the builtin namespace.



## 2.1 Overview

*qtypy.settings.Settings*: Pythonic wrapper for QSettings

## 2.2 Example

```
from qtypy.settings import Settings

settings = Settings()
with settings.grouped('Geometry'):
    mainWindowGeometry = settings.value('MainWindow') if 'MainWindow' in settings_
↪ else None

for item in settings.array('RecentFiles'):
    self.addRecentFile(item.value('Path'))

...

with Settings() as settings: # So that sync() is called on exit
    settings.setValue('MainWindow', mainWindowGeometry)
    with settings.array('newarray') as items:
        for path in self.recentFiles():
            items.add(Path=path)
```

## 2.3 Reference

Pythonic wrapper for QSettings

**class** qtypy.settings.Settings

Settings class. You can also use this as a context manager so that *sync()* is called on exit.

**items** ()

Yields all key/value pairs (recursively). Affected by the current group.

**keys** ()

Yield all child keys. Affected by the current group.

**keyValues** ()

Yield all child key/value pairs. Affected by the current group.

**groups** ()

Yield all child groups. Affected by the current group.

**grouped** (name)

Context manager to enter a settings group. So instead of doing

```
settings.beginGroup('spam')
try:
    ...
finally:
    settings.endGroup()
```

you can do

```
with settings.grouped('spam') :
    ...
```

**array** (name)

Array support. This is used both to read a settings array (through iteration) and to write to it (using *with*). Example of reading:

```
for item in settings.array('myarray') :
    spam = item.value('spam')
    eggs = item.value('eggs')
```

is equivalent to:

```
for index in range(settings.beginReadArray('myarray')) :
    spam = settings.value('spam')
    eggs = settings.value('eggs')
settings.endArray()
```

Example of writing:

```
with settings.array('myarray') as items:
    items.add(spam='spam', eggs='eggs')
    items.add(spam=42, eggs=13)
```

is equivalent to:

```
settings.beginWriteArray('myarray')
settings.setArrayIndex(0)
settings.setValue('spam', 'spam')
settings.setValue('eggs', 'eggs')
settings.setArrayIndex(1)
settings.setValue('spam', 42)
```

(continues on next page)



(continued from previous page)

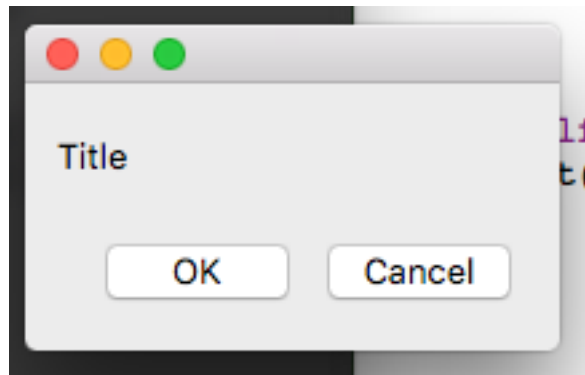
```
settings.setValue('eggs', 13)
settings.endArray()
```



### 3.1 Overview

*qtypy.layout.LayoutBuilder*: Stacking layouts with context managers.

### 3.2 Examples



```
#!/usr/bin/env python3

from PyQt5 import QtCore, QtWidgets

from qtypy.layout import LayoutBuilder

class MainWindow(QtWidgets.QMainWindow):
    def __init__(self):
        super().__init__()
```

(continues on next page)

(continued from previous page)

```

        builder = LayoutBuilder(self)
        with builder.vbox() as vbox:
            vbox.addWidget(QtWidgets.QLabel('Title'))
            with builder.hbox() as hbox:
                hbox.addStretch(1)
                hbox.addWidget(QtWidgets.QPushButton('OK')).clicked.connect(self.onOK)
                hbox.addWidget(QtWidgets.QPushButton('Cancel')).clicked.connect(self.
→onCancel)

        self.show()
        self.raise_()

    def onOK(self):
        print('== OK')

    def onCancel(self):
        print('== Cancel')

if __name__ == '__main__':
    app = QtWidgets.QApplication([])
    win = MainWindow()
    app.exec_()

```

### 3.3 Reference

Utilities for working with layouts.

**class** qtypy.layout.**LayoutBuilder** (*target*)

Layout builder. Use this to ‘stack’ layouts using context managers. For instance, instead of

```

l1 = QtWidgets.QHBoxLayout()
l1.addWidget(...)
l2 = QtWidgets.QVBoxLayout()
l2.addWidget(...)
l2.addLayout(l1)
self.setLayout(l2)

```

you can do

```

builder = LayoutBuilder(self)
with builder.vbox() as l2:
    l2.addWidget(...)
    with builder.hbox() as l1:
        l1.addWidget(...)

```

The builder class takes care of adding each layout to its parent (defined in the outer context manager), and adding the top-level layout to the target widget.

Methods that create a layout (hbox, vbox, etc) take additional positional and keyword arguments that will be passed to the parent’s addLayout() method. Intermediate container widgets (when the top-level layout must be added to a QMainWindow for instance) are created automatically.

The returned layouts are actually proxies to actual layouts, with the *addWidget()* method returning the added widget. This allows call chaining without using an intermediate variable, for instance

```
hbox.addWidget(QtWidgets.QPushButton('OK')).clicked.connect(self.okSlot)
```

instead of

```
w = QtWidgets.QPushButton('OK')
hbox.addWidget(w)
w.clicked.connect(self.okSlot)
```

**hbox** (\*args, \*\*kwargs)

Horizontal box.

**vbox** (\*args, \*\*kwargs)

Vertical box.

**stack** (\*args, \*\*kwargs)

Stack.

**form** (\*args, \*\*kwargs)

Form.

**split** (\*args, \*\*kwargs)

Splitter; this is not a layout strictly speaking but it will behave as one.



## 4.1 Overview

*qtypy.model.PythonListModel* A class that behaves both as a Python list and a QAbstractListModel.

*qtypy.model.PythonTreeModel* A tree model based on PythonListModel which may contain other PythonListModel instances.

*qtypy.widgets.view.ColumnedView* A multi-columned view for PythonTreeModel.

*qtypy.widgets.view.Column* Base class for columns

*qtypy.widgets.view.CheckableColumnMixin* Mixin to make a column checkable

*qtypy.widgets.view.EditableColumnMixin* Mixin to make a column editable

*qtypy.widgets.view.WidgetColumn* Column that displays a widget, when all else fails

## 4.2 Examples

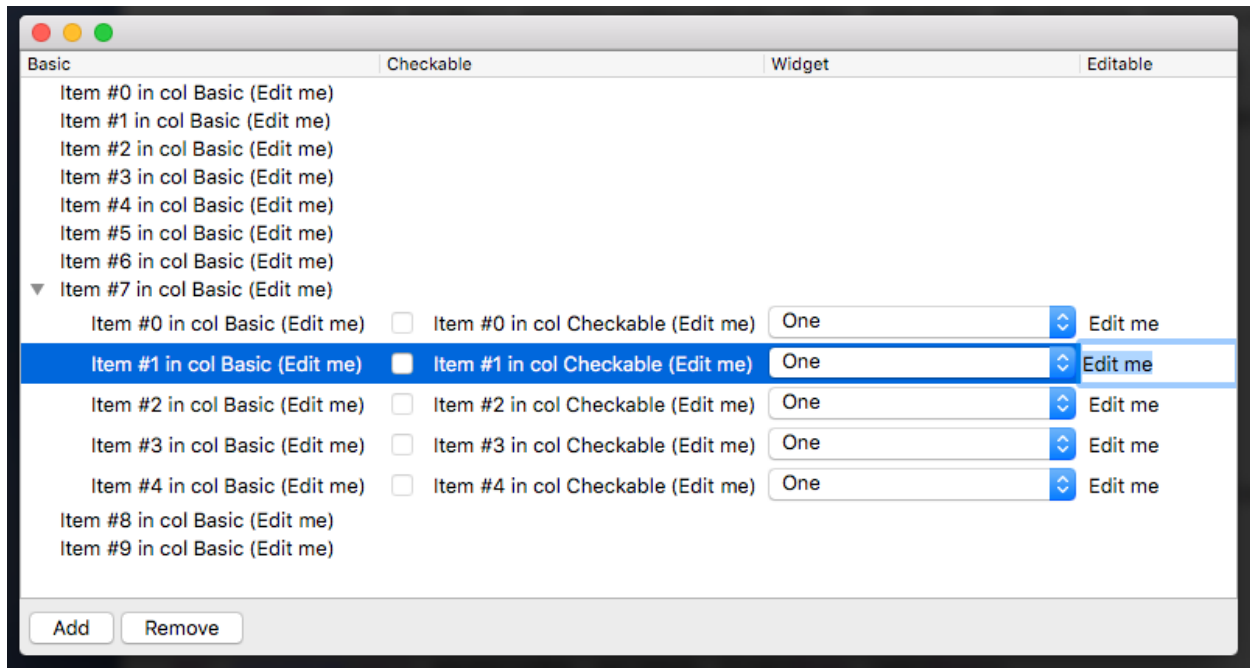
```
#!/usr/bin/env python3

from PyQt5 import QtCore, QtWidgets

from qtypy.settings import Settings
from qtypy.widgets.view import ColumnedView
from qtypy.model import PythonListModel
from qtypy.widgets.view import Column, WidgetColumn, CheckableColumnMixin,
↳ EditableColumnMixin

class Item(PythonListModel):
    def __init__(self, n):
        super().__init__()
```

(continues on next page)



(continued from previous page)

```

        self.n = n
        self.checked = False
        self.text = 'Edit me'

        if n == 7:
            for i in range(5):
                self.append(Item(i))

class SimpleColumn(Column):
    def __init__(self, name):
        self._name = name
        super().__init__()

    def name(self):
        return self._name

    def id(self):
        # For saveState/restoreState
        return self._name

    def labelForItem(self, item):
        return 'Item #%d in col %s (%s)' % (item.n, self._name, item.text)

class CheckColumn(CheckableColumnMixin, SimpleColumn):
    def checkState(self, item):
        return QtCore.Qt.Checked if item.checked else QtCore.Qt.Unchecked

    def setCheckState(self, item, state):
        print('== Check state for item "%s": %d' % (self.labelForItem(item), state))

```

(continues on next page)



(continued from previous page)

```

        item.checked = state == QtCore.Qt.Checked

    def appliesToChildrenOf(self, parent):
        return parent is not None # Only for non-toplevel items

class EditColumn(EditableViewMixin, SimpleColumn):
    def value(self, item):
        return item.text

    def setValue(self, item, value):
        print('== Set value for item "%s": %s' % (self.labelForItem(item), value))
        item.text = value

    def appliesToChildrenOf(self, parent):
        return parent is not None

class ComboColumn(WidgetColumn):
    def widgetFactory(self, item, parent):
        combo = QtWidgets.QComboBox(parent)
        combo.addItem('One')
        combo.addItem('Two')
        combo.addItem('Three')
        return combo

    def appliesToChildrenOf(self, parent):
        return parent is not None # Only for non-toplevel items

class CustomView(ColumnView):
    def __init__(self, **kwargs):
        super().__init__(**kwargs)
        self.setStandardButtons(self.BTN_ADD|self.BTN_DEL)
        self.addButtonClicked.connect(self._onAdd)
        self.delButtonClicked.connect(self._onDel)

    def _onAdd(self, selection):
        if selection:
            for item in selection:
                item.append(Item(42))
        else:
            self.model().append(Item(42))

    def _onDel(self, selection):
        for item in selection:
            parent = self.itemContainer(item)
            if parent is not None: # The parent itself may already have been removed
                parent.remove(item)

    def createContextMenu(self):
        # Column visibility menu
        menu = QtWidgets.QMenu(self)
        self.populateContextMenu(menu)
        return menu

```

(continues on next page)

(continued from previous page)

```

class MainWindow(QMainWindow):
    def __init__(self):
        super().__init__()

        model = PythonListModel()
        view = CustomView(model=model, parent=self)

        view.addColumn(SimpleColumn('Basic')).setResizeMode(Column.Interactive)
        view.addColumn(CheckColumn('Checkable')).setResizeMode(Column.Contents)
        view.addColumn(ComboColumn('Widget')).setResizeMode(Column.Interactive)
        view.addColumn(EditColumn('Editable')).setResizeMode(Column.Stretch)
        self.setCentralWidget(view)

        for n in range(10):
            model.append(Item(n))

        with Settings().grouped('model') as settings:
            if 'state' in settings:
                view.restoreState(settings['state'])

        self.show()
        self.raise_()

    def closeEvent(self, event):
        with Settings().grouped('model') as settings:
            settings['state'] = self.centralWidget().saveState()
        event.accept()

if __name__ == '__main__':
    app = QtWidgets.QApplication([])
    app.setApplicationName('qtypy example')
    win = MainWindow()
    app.exec_()

```

## 4.3 Reference

### 4.3.1 Models

Classes for Qt's model/view programming, with a Pythonic touch.

**class** qtypy.model.PythonListModel (parent=None, value=None)

Python list-like object that implements QAbstractListModel. Most list operations like iterating, slicing, etc are supported except for

- reverse()
- sort()
- Slices with step

Items may define an *itemDataChanged()* signal, that is to be emitted whenever the item's data changes.

**copy()**

Returns a shallow copy of this object (same class, same content)

**class** `qtypy.model.PythonTreeModel` (*model=None, parent=None*)

This is an implementation of `QAbstractItemModel` based on a `PythonListModel`. Elements of the list model that are themselves instances of `PythonListModel` will have children.

**itemContainer** (*item*)

Looks up the item's container

**itemParent** (*item*)

Looks up the item's parent in the tree

## 4.3.2 Views

**class** `qtypy.widgets.view.ColumnedView` (*model, parent=None*)

A multi-column view for a `PythonTreeModel` or `PythonListModel`.

**BTN\_ADD** = 1

Standard Add button

**BTN\_DEL** = 2

Standard Remove button

**selectionChanged** = None

Signal emitted when the selection changes

**addButtonClicked** = None

Signal emitted when the "Add" button is clicked; current selection is passed as argument.

**delButtonClicked** = None

Signal emitted when the "Remove" button is clicked; current selection is passed as argument.

**selection** ()

Returns the set of selected model objects

**model** ()

Returns the `PythonListModel` of root elements

**itemContainer** (*item*)

Returns the `PythonListModel` that contains *item*

**expandAll** (*root=None*)

Expands all items

**setStandardButtons** (*buttons*)

Show standard buttons. The argument is an ORED combination of `BTN_*` values. The order and position of buttons will depend on the current platform's HIG.

**standardButton** (*type\_*)

Returns the specified standard button

**addButtonEnabled** (*selection*)

Called to check if the 'Add' button should be enabled; return a boolean. The argument is a set of currently selected items (model objects). The default returns True.

**delButtonEnabled** (*selection*)

Called to check if the 'Remove' button should be enabled; return a boolean. The argument is a set of currently selected items (model objects). The default returns True if the selection is not empty.

**saveState** ()

Returns a bytes object encapsulating the current state (column visibility, order, etc). You can save this in your settings and use it later to restore the state using `restoreState`.

**restoreState** (*state*)

Restore the state saved through *saveState*. If the versions do not match, nothing is done. Returns True if the state was restored.

**addColumn** (*column*, *visible=True*)

Append a column (instance of a *Column* subclass). Returns the column instance, for chaining.

**createContextMenu** ()

This is called when then user right-clicks the view header. Return None for no context menu. You can use *populateContextMenu* to add actions to show/hide columns.

**populateContextMenu** (*menu*)

This appends to the menu as many checkable actions as there are columns, to show or hide them.

**setEditTriggers** (*triggers*)

Sets edit triggers for the underlying tree view

**class** qtypy.widgets.view.**Column**

Represents a column in a tree view. When you want to display data from a *PythonTreeModel*, use a *ColumnedView* and add instances of subclasses of this class to define columns.

Various mixins are available for common behavior (checkable, editable, etc).

Constant values for *setResizeMode*:

#### Variables

- **Interactive** – Column is user-resizable
- **Stretch** – Column takes all available space
- **Contents** – Column is resized according to contents

**nameChanged** = None

This signal should be emitted if the column name changes

**id** ()

Return a persistent string identifier for this column; this is used by *saveState/restoreState* in *ColumnedView*.

**name** ()

Return the column's name, or None.

**appliesToChildrenOf** (*parent*)

Return True if this column applies to children of *parent*

**setVisible** (*visible*)

Sets the current column visibility. This must be called *after* the column has been added to a view.

**setResizeMode** (*mode*)

Sets the resize mode. Possible values are either class attributes *Interactive*, *Stretch* or *Contents*, or an integer for a fixed size.

---

**Note:** by default all columns are user-resizable, except for the last one which is stretched.

---

**show** ()

Short for *setVisible(True)*

**hide** ()

Short for *setVisible(False)*

**labelForItem** (*item*)  
Returns the text for this column for the given item. The default is to cast the item to *str*.

**flags** ()  
Called when the model needs to know flags associated with this column.

**data** (*item, role*)  
Called when the model needs the item's data for this column. Mixins override this and provide specific methods (like *checkState()* in *CheckableColumnMixin*).

**setData** (*item, role, value*)  
Called when the item's data for this column has been changed by the user and must be updated. Mixins override this and provide specific methods (like *setCheckState()* in *CheckableColumnMixin*).

**class** qtypy.widgets.view.**CheckableColumnMixin**  
Mixin to make a column checkable.

**checkState** (*item*)  
Override to return the check state for the item

**setCheckState** (*item, state*)  
Override to update the item state

**class** qtypy.widgets.view.**EditableColumnMixin**  
Mixin to make a column editable with the default editor.

**value** (*item*)  
Override to return the item's edit value. The default is the item's label.

**setValue** (*item, value*)  
Override to update the item's edit value.

**class** qtypy.widgets.view.**EditableTextColumn** (*column\_name, attr\_name*)  
Concrete column class to display an editable text attribute

**name** ()  
Return the column's name, or None.

**value** (*item*)  
Override to return the item's edit value. The default is the item's label.

**setValue** (*item, value*)  
Override to update the item's edit value.

**class** qtypy.widgets.view.**CheckColumn** (*column\_name, attr\_name*)  
Concrete column class to display a checkbox

**name** ()  
Return the column's name, or None.

**labelForItem** (*item*)  
Returns the text for this column for the given item. The default is to cast the item to *str*.

**checkState** (*item*)  
Override to return the check state for the item

**setCheckState** (*item, state*)  
Override to update the item state

**class** qtypy.widgets.view.**WidgetColumn** (*column\_name*)  
A column that display a widget for each row.

**name** ()  
Return the column's name, or None.

**labelForItem** (*item*)

Returns the text for this column for the given item. The default is to cast the item to *str*.

**widgetFactory** (*item*, *parent*)

Widget factory. This is what you should overload.

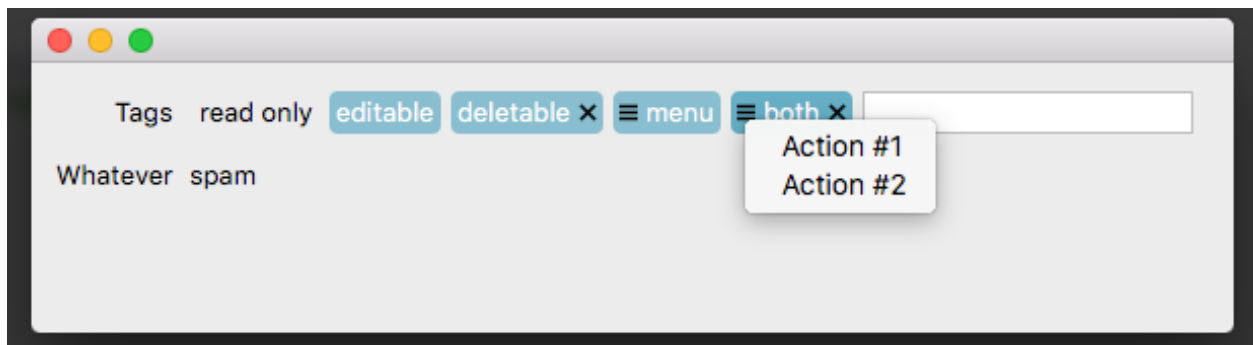
**Parameters**

- **item** – The item
- **parent** – Parent for the new widget

## 5.1 Overview

`qtypy.widgets.taglist.TagList` A tag list widget

## 5.2 Examples



```
#!/usr/bin/env python3

from PyQt5 import QtCore, QtWidgets

from qtypy.widgets.taglist import TagList
from qtypy.model import PythonListModel

class StringListModel(PythonListModel):
    def data(self, index, role):
        text = super().data(index, QtCore.Qt.UserRole)
```

(continues on next page)

(continued from previous page)

```

        if role in (QtCore.Qt.DisplayRole, QtCore.Qt.EditRole):
            return text

    def flags(self, index):
        flags = super().flags(index)
        if index.row() == 0:
            return int(flags)

        flags = int(flags | QtCore.Qt.ItemIsEditable)
        if index.row() == 1:
            pass
        if index.row() in (2, 4):
            flags |= TagList.ItemIsClosable
        if index.row() in (3, 4):
            flags |= TagList.ItemHasMenu
        return flags

    def setData(self, index, role, text):
        self[index.row()] = text

class MyTagList(TagList):
    def __init__(self, parent):
        super().__init__(StringListModel(value=['read only', 'editable', 'deletable',
→ 'menu', 'both']), parent)

        cmpl = QtWidgets.QCompleter(['one', 'two', 'three', 'four'])
        self.setCompleter(cmpl)

    def addTag(self, text):
        self.model().append(text)

    def removeTag(self, index):
        self.model().pop(index)

    def popupMenu(self, index, pos):
        menu = QtWidgets.QMenu(self)
        menu.addSection(self.model()[index])
        menu.addSeparator()
        menu.addAction('Action #1')
        menu.addAction('Action #2')
        menu.popup(pos)

class MainWindow(QtWidgets.QMainWindow):
    def __init__(self):
        super().__init__()

        container = QtWidgets.QWidget(self)
        layout = QtWidgets.QFormLayout()
        layout.addRow('Tags', MyTagList(self))
        layout.addRow('Whatever', QtWidgets.QLabel('spam'))
        layout.setFieldGrowthPolicy(layout.ExpandingFieldsGrow)
        container.setLayout(layout)
        self.setCentralWidget(container)

        self.resize(800, 600)

```

(continues on next page)



(continued from previous page)

```
        self.show()
        self.raise_()

if __name__ == '__main__':
    app = QtWidgets.QApplication([])
    win = MainWindow()
    app.exec_()
```

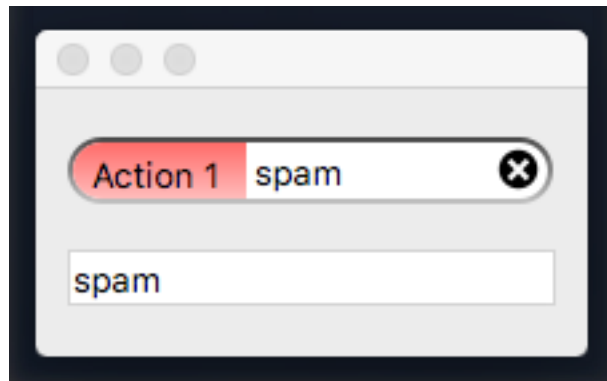
## 5.2.1 Classes



### 6.1 Overview

`qtypy.widgets.search.SearchCtrl` A search widget

### 6.2 Examples



```
#!/usr/bin/env python3

from PyQt5 import QtWidgets

from qtypy.widgets.search import SearchCtrl
from qtypy.layout import LayoutBuilder

class SearchWidget(QtWidgets.QWidget):
    def __init__(self, parent):
```

(continues on next page)

(continued from previous page)

```
super().__init__(parent)

bld = LayoutBuilder(self)
with bld.vbox() as layout:
    search = SearchCtrl(self)
    layout.addWidget(search)
    echo = QtWidgets.QLineEdit(self)
    layout.addWidget(echo)
    echo.setReadOnly(True)
    search.textChanged.connect(echo.setText)

search.addAction(QtWidgets.QAction('Action 1', self))
search.addAction(QtWidgets.QAction('Action 2', self), select=True)

class MainWindow(QtWidgets.QMainWindow):
    def __init__(self):
        super().__init__()
        self.setCentralWidget(SearchWidget(self))
        self.show()
        self.raise_()

if __name__ == '__main__':
    app = QtWidgets.QApplication([])
    win = MainWindow()
    app.exec_()
```

## 6.2.1 Classes

## CHAPTER 7

---

### Indices and tables

---

- `genindex`
- `modindex`
- `search`



### q

- `qtypy.app`, [1](#)
- `qtypy.layout`, [8](#)
- `qtypy.model`, [14](#)
- `qtypy.settings`, [3](#)
- `qtypy.widgets.view`, [15](#)





## A

[addButtonClicked](#) (*qtypy.widgets.view.ColumnedView attribute*), [15](#)  
[addButtonEnabled](#) (*qtypy.widgets.view.ColumnedView method*), [15](#)  
[addColumn](#) (*qtypy.widgets.view.ColumnedView method*), [16](#)  
[Application](#) (*class in qtypy.app*), [1](#)  
[appliesToChildrenOf](#) (*qtypy.widgets.view.Column method*), [16](#)  
[array](#) (*qtypy.settings.Settings method*), [4](#)

## B

[BTN\\_ADD](#) (*qtypy.widgets.view.ColumnedView attribute*), [15](#)  
[BTN\\_DEL](#) (*qtypy.widgets.view.ColumnedView attribute*), [15](#)

## C

[CheckableColumnMixin](#) (*class in qtypy.widgets.view*), [17](#)  
[CheckColumn](#) (*class in qtypy.widgets.view*), [17](#)  
[checkState](#) (*qtypy.widgets.view.CheckableColumnMixin method*), [17](#)  
[checkState](#) (*qtypy.widgets.view.CheckColumn method*), [17](#)  
[Column](#) (*class in qtypy.widgets.view*), [16](#)  
[ColumnedView](#) (*class in qtypy.widgets.view*), [15](#)  
[copy](#) (*qtypy.model.PythonListModel method*), [14](#)  
[createContextMenu](#) (*qtypy.widgets.view.ColumnedView method*), [16](#)

## D

[data](#) (*qtypy.widgets.view.Column method*), [17](#)  
[delButtonClicked](#) (*qtypy.widgets.view.ColumnedView attribute*), [15](#)

[delButtonEnabled](#) (*qtypy.widgets.view.ColumnedView method*), [15](#)

## E

[EditableColumnMixin](#) (*class in qtypy.widgets.view*), [17](#)  
[EditableTextColumn](#) (*class in qtypy.widgets.view*), [17](#)  
[expandAll](#) (*qtypy.widgets.view.ColumnedView method*), [15](#)

## F

[flags](#) (*qtypy.widgets.view.Column method*), [17](#)  
[form](#) (*qtypy.layout.LayoutBuilder method*), [9](#)

## G

[grouped](#) (*qtypy.settings.Settings method*), [4](#)  
[groups](#) (*qtypy.settings.Settings method*), [4](#)

## H

[hbox](#) (*qtypy.layout.LayoutBuilder method*), [9](#)  
[hide](#) (*qtypy.widgets.view.Column method*), [16](#)

## I

[id](#) (*qtypy.widgets.view.Column method*), [16](#)  
[itemContainer](#) (*qtypy.model.PythonTreeModel method*), [15](#)  
[itemContainer](#) (*qtypy.widgets.view.ColumnedView method*), [15](#)  
[itemParent](#) (*qtypy.model.PythonTreeModel method*), [15](#)  
[items](#) (*qtypy.settings.Settings method*), [4](#)

## K

[keys](#) (*qtypy.settings.Settings method*), [4](#)  
[keyValues](#) (*qtypy.settings.Settings method*), [4](#)

## L

`labelForItem()` (*qtypy.widgets.view.CheckColumn method*), 17  
`labelForItem()` (*qtypy.widgets.view.Column method*), 16  
`labelForItem()` (*qtypy.widgets.view.WidgetColumn method*), 17  
`LayoutBuilder` (*class in qtypy.layout*), 8

## M

`model()` (*qtypy.widgets.view.ColumnedView method*), 15

## N

`name()` (*qtypy.widgets.view.CheckColumn method*), 17  
`name()` (*qtypy.widgets.view.Column method*), 16  
`name()` (*qtypy.widgets.view.EditableTextColumn method*), 17  
`name()` (*qtypy.widgets.view.WidgetColumn method*), 17  
`nameChanged` (*qtypy.widgets.view.Column attribute*), 16

## P

`populateContextMenu()` (*qtypy.widgets.view.ColumnedView method*), 16  
`PythonListModel` (*class in qtypy.model*), 14  
`PythonTreeModel` (*class in qtypy.model*), 14

## Q

`qtypy.app` (*module*), 1  
`qtypy.layout` (*module*), 8  
`qtypy.model` (*module*), 14  
`qtypy.settings` (*module*), 3  
`qtypy.widgets.view` (*module*), 15

## R

`restoreState()` (*qtypy.widgets.view.ColumnedView method*), 15

## S

`saveState()` (*qtypy.widgets.view.ColumnedView method*), 15  
`selection()` (*qtypy.widgets.view.ColumnedView method*), 15  
`selectionChanged` (*qtypy.widgets.view.ColumnedView attribute*), 15  
`setCheckState()` (*qtypy.widgets.view.CheckableColumnMixin method*), 17  
`setCheckState()` (*qtypy.widgets.view.CheckColumn method*), 17  
`setData()` (*qtypy.widgets.view.Column method*), 17

`setEditTriggers()` (*qtypy.widgets.view.ColumnedView method*), 16  
`setResizeMode()` (*qtypy.widgets.view.Column method*), 16  
`setStandardButtons()` (*qtypy.widgets.view.ColumnedView method*), 15  
`Settings` (*class in qtypy.settings*), 3  
`setup_i18n()` (*qtypy.app.Application method*), 1  
`setValue()` (*qtypy.widgets.view.EditableColumnMixin method*), 17  
`setValue()` (*qtypy.widgets.view.EditableTextColumn method*), 17  
`setVisible()` (*qtypy.widgets.view.Column method*), 16  
`show()` (*qtypy.widgets.view.Column method*), 16  
`split()` (*qtypy.layout.LayoutBuilder method*), 9  
`stack()` (*qtypy.layout.LayoutBuilder method*), 9  
`standardButton()` (*qtypy.widgets.view.ColumnedView method*), 15

## V

`value()` (*qtypy.widgets.view.EditableColumnMixin method*), 17  
`value()` (*qtypy.widgets.view.EditableTextColumn method*), 17  
`vbox()` (*qtypy.layout.LayoutBuilder method*), 9

## W

`WidgetColumn` (*class in qtypy.widgets.view*), 17  
`widgetFactory()` (*qtypy.widgets.view.WidgetColumn method*), 18