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# **qstylizer Documentation**

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## Contents

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|          |                                   |           |
|----------|-----------------------------------|-----------|
| <b>1</b> | <b>Introduction</b>               | <b>3</b>  |
| 1.1      | How Does it Work? . . . . .       | 4         |
| 1.2      | Advantages . . . . .              | 5         |
| <b>2</b> | <b>Tutorial</b>                   | <b>7</b>  |
| 2.1      | Creating a StyleSheet . . . . .   | 7         |
| 2.2      | Global scope vs “* { }” . . . . . | 8         |
| 2.3      | Unknown Property Names . . . . .  | 8         |
| 2.4      | Not Operator (!) . . . . .        | 8         |
| 2.5      | Object Property . . . . .         | 8         |
| 2.6      | Parser . . . . .                  | 9         |
| 2.7      | String Output . . . . .           | 9         |
| <b>3</b> | <b>API Reference</b>              | <b>11</b> |
| 3.1      | qstylizer.descriptor . . . . .    | 11        |
| 3.2      | qstylizer.parser . . . . .        | 23        |
| 3.3      | qstylizer.style . . . . .         | 23        |
| <b>4</b> | <b>Indices and tables</b>         | <b>25</b> |
|          | <b>Python Module Index</b>        | <b>27</b> |
|          | <b>Index</b>                      | <b>29</b> |



qstylizer is a Qt stylesheet builder utility for PyQt4, PyQt5, PySide and PySide2.



# CHAPTER 1

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## Introduction

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*qstylizer* is a python package designed to help with the construction of Qt stylesheets.

The typical way of setting a stylesheet in PyQt is like this:

```
widget = QtWidgets.QWidget()
widget.setStyleSheet("""
    QTabBar {
        border-radius: 3px;
        background-color: green;
    }
    QTabBar:focus {
        border: 0px transparent black;
        background-color: red;
    }
    QTabBar::close-button {
        background: transparent;
    }
""")
```

This approach floods the python code with ugly multi-line strings everywhere.

The *qstylizer* way:

```
import qstylizer.style

css = qstylizer.style.StyleSheet()
css.QTabBar.setValues(
    borderRadius="3px",
    backgroundColor="green"
)
css.QTabBar.focus.setValues(
    border="0px transparent black",
    backgroundColor="red"
)
css.QTabBar.closeButton.background.setValue("transparent")
```

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```
widget = QtWidgets.QMainWindow()
widget.setStyleSheet(css.toString())
```

*qstylizer* stores style rule objects in a dictionary hierarchy.

The above example maps to this hierarchy:

```
<StyleSheet dict={
  "QTabBar": <ClassRule name="QTabBar" dict={
    "border-radius": <PropRule name="border-radius" value="3px" />,
    "background-color": <PropRule name="background-color" value="green" />,
    "focus": <PseudoStateRule name="focus" dict={
      "border": <PropRule name="border" value="0px transparent black" />,
      "background-color": <PropRule name="background-color" value="red" />,
    } />
    "close-button": <SubControlRule name="close-button" dict={
      "background": <PropRule name="background" value="transparent" />,
    } />
  } />
} />
```

A *StyleRule* object is basically just an ordered dictionary with the keys as the style rule property names and the values as the style rule property values. Any attempt to get a dictionary value in the instance will add a key and value into the dictionary (the style rule property:values).

If *qstylizer* incorrectly determines that *close-button* is a pseudostate instead of a subcontrol, the colons can be specified in the key:

```
css.QTabBar["::close-button"].background.setValue("transparent")
```

Because of the hierarchical nature, the following are all valid:

```
css.QTabBar.closeButton.background.setValue("transparent")
css["QTabBar"].closeButton.background.setValue("transparent")
css["QTabBar"]["close-button"].background.setValue("transparent")
css["QTabBar"]["close-button"]["background"].setValue("transparent")
css["QTabBar"]["::close-button"]["background"].setValue("transparent")
css["QTabBar::close-button"].background.setValue("transparent")
css["QTabBar::close-button"]["background"].setValue("transparent")
```

## 1.1 How Does it Work?

How does *qstylizer* determine what is a *QClass*, subcontrol, or pseudostate? The package itself stores a list of known options for each type.

```
>>> qstylizer.style.rule_class("QTabBar")
<class 'qstylizer.style.ClassRule'>
>>> qstylizer.style.rule_class("close-button")
<class 'qstylizer.style.SubControlRule'>
>>> qstylizer.style.rule_class("hover")
<class 'qstylizer.style.PseudoStateRule'>
```

## 1.2 Advantages

What are the advantages? Ease of use and cleaner code. There is no need to worry about scope operators, brackets, and semi-colons.



## 2.1 Creating a StyleSheet

To create a stylesheet, create a `qstylizer.style.StyleSheet` instance.

```
>>> import qstylizer.style
>>> css = qstylizer.style.StyleSheet()
```

To add global properties, simply start setting values for any attribute.

```
>>> css.color.setValue("green")
>>> css.border.setValue("1px solid red")
>>> print(css.toString())
color: green;
border: 1px solid red;
```

Here is how to create a style rule for `QTabBar::close-button` and set the *background* property to *transparent*:

```
>>> css.QTabBar.closeButton.background.setValue("transparent")
>>> print(css.toString())
* {
    color: green;
    border: 1px solid red;
}
QTabBar::close-button {
    background: transparent;
}
```

There are actually multiple ways to set a property value. All of the following statements below are equivalent and valid. Take your pick.

```
>>> css.QTabBar.closeButton.background.setValue("transparent")
>>> css["QTabBar"].closeButton.background.setValue("transparent")
>>> css["QTabBar"]["close-button"].background.setValue("transparent")
```

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```
>>> css["QTabBar"] ["close-button"] ["background"].setValue("transparent")
>>> css["QTabBar"] [":close-button"] ["background"].setValue("transparent")
>>> css["QTabBar::close-button"].background.setValue("transparent")
>>> css["QTabBar::close-button"] ["background"].setValue("transparent")
```

## 2.2 Global scope vs “\* {}”

Adding a sub-style rule will result in a different syntax for the global property values:

```
>>> css.color.setValue("green")
>>> css.border.setValue("1px solid red")
>>> print(css.toString())
color: green;
border: 1px solid red;

>>> css.QWidget.backgroundColor.setValue("blue")
>>> print(css.toString())
* {
    color: green;
    border: 1px solid red;
}
QWidget {
    background-color: blue;
}
```

## 2.3 Unknown Property Names

Any name can be used as an attribute with the use of strings and brackets.

```
>>> css = qstylizer.style.StyleSheet()
>>> css["QUnknownClass::unknown-subcontrol"] ["unknown-prop"].setValue("none")
>>> print(css.toString())
QUnknownClass::unknown-subcontrol {
    unknown-prop: none;
}
```

## 2.4 Not Operator (!)

Here is an example of how to use the ! operator:

```
css.QTabBar["!focus"].background.setValue("none")
```

## 2.5 Object Property

Here is an example of how to set an object property style rule:

```
css['QLineEdit[echoMode="2"]'].background.setValue("none")
```

## 2.6 Parser

An existing stylesheet can be converted to a `StyleSheet` instance as a starting point. This is handy if you need to change property values in an existing template stylesheet.

```
>>> import qstylizer.parser
>>> stylesheet = """
... QTabBar {
...     border-radius: 3px;
...     background-color: green;
... }
... QTabBar:focus {
...     border: 0px transparent black;
...     background-color: red;
... }
... QTabBar::close-button {
...     background: transparent;
... }
... """
>>> css = qstylizer.parser.parse(stylesheet)
>>> print(css.QTabBar.focus.toString())
QTabBar:focus {
    border: 0px transparent black;
    background-color: red;
}
```

## 2.7 String Output

The `qstylizer.style.StyleRule.toString()` function call with no parameters will just output the property:values of that style rule in css format. The `qstylizer.style.StyleRule.toString(recursive=True)` function call will output the style rule and all of the sub-style rules in its hierarchy.

```
>>> print(css.QTabBar.toString())
QTabBar {
    border-radius: 3px;
    background-color: green;
}
>>> print(css.QTabBar.toString(recursive=True))
QTabBar {
    border-radius: 3px;
    background-color: green;
}
QTabBar:focus {
    border: 0px transparent black;
    background-color: red;
}
QTabBar::close-button {
    background: transparent;
}
```



*qstylizer*

## 3.1 qstylizer.descriptor

### 3.1.1 qstylizer.descriptor.prop

**class** qstylizer.descriptor.prop.**PropertyDescriptor** (*name*)  
Property descriptor.

**rule\_cls**

**class** qstylizer.descriptor.prop.**PropParent**  
Property setter.

Contains descriptors for all known properties.

**qtBackgroundRole**  
Property descriptor.

**qtBlockIndent**  
Property descriptor.

**qtLineHeightType**  
Property descriptor.

**qtListIndent**  
Property descriptor.

**qtListNumberPrefix**  
Property descriptor.

**qtListNumberSuffix**  
Property descriptor.

**qtParagraphType**

Property descriptor.

**qtStyleFeatures**

Property descriptor.

**qtTableType**

Property descriptor.

**qtUserState**

Property descriptor.

**alternateBackgroundColor**

Property descriptor.

**alignment**

Property descriptor.

**background**

Property descriptor.

**backgroundAttachment**

Property descriptor.

**backgroundClip**

Property descriptor.

**backgroundColor**

Property descriptor.

**backgroundImage**

Property descriptor.

**backgroundOrigin**

Property descriptor.

**backgroundPosition**

Property descriptor.

**backgroundRepeat**

Property descriptor.

**border**

Property descriptor.

**borderBottom**

Property descriptor.

**borderBottomColor**

Property descriptor.

**borderBottomLeftRadius**

Property descriptor.

**borderBottomRightRadius**

Property descriptor.

**borderBottomStyle**

Property descriptor.

**borderBottomWidth**

Property descriptor.

**borderColor**  
Property descriptor.

**borderImage**  
Property descriptor.

**borderLeft**  
Property descriptor.

**borderLeftColor**  
Property descriptor.

**borderLeftStyle**  
Property descriptor.

**borderLeftWidth**  
Property descriptor.

**borderRadius**  
Property descriptor.

**borderRight**  
Property descriptor.

**borderRightColor**  
Property descriptor.

**borderRightStyle**  
Property descriptor.

**borderRightWidth**  
Property descriptor.

**borderStyle**  
Property descriptor.

**borderTop**  
Property descriptor.

**borderTopColor**  
Property descriptor.

**borderTopLeftRadius**  
Property descriptor.

**borderTopRightRadius**  
Property descriptor.

**borderTopStyle**  
Property descriptor.

**borderTopWidth**  
Property descriptor.

**borderWidth**  
Property descriptor.

**color**  
Property descriptor.

**comboboxPopup**  
Property descriptor.

**float**  
Property descriptor.

**font**  
Property descriptor.

**fontFamily**  
Property descriptor.

**fontSize**  
Property descriptor.

**fontStyle**  
Property descriptor.

**fontVariant**  
Property descriptor.

**fontWeight**  
Property descriptor.

**height**  
Property descriptor.

**iconSize**  
Property descriptor.

**image**  
Property descriptor.

**imagePosition**  
Property descriptor.

**lineHeight**  
Property descriptor.

**listStyle**  
Property descriptor.

**listStyleType**  
Property descriptor.

**margin**  
Property descriptor.

**marginBottom**  
Property descriptor.

**marginLeft**  
Property descriptor.

**marginRight**  
Property descriptor.

**marginTop**  
Property descriptor.

**maxHeight**  
Property descriptor.

**maxWidth**  
Property descriptor.

**minHeight**

Property descriptor.

**minWidth**

Property descriptor.

**outline**

Property descriptor.

**outlineBottomLeftRadius**

Property descriptor.

**outlineBottomRightRadius**

Property descriptor.

**outlineColor**

Property descriptor.

**outlineOffset**

Property descriptor.

**outlineRadius**

Property descriptor.

**outlineStyle**

Property descriptor.

**outlineTopLeftRadius**

Property descriptor.

**outlineTopRightRadius**

Property descriptor.

**outlineWidth**

Property descriptor.

**padding**

Property descriptor.

**paddingBottom**

Property descriptor.

**paddingLeft**

Property descriptor.

**paddingRight**

Property descriptor.

**paddingTop**

Property descriptor.

**pageBreakAfter**

Property descriptor.

**pageBreakBefore**

Property descriptor.

**position**

Property descriptor.

**selectionBackgroundColor**

Property descriptor.

**selectionColor**  
Property descriptor.

**showDecorationSelected**  
Property descriptor.

**spacing**  
Property descriptor.

**subcontrolOrigin**  
Property descriptor.

**subcontrolPosition**  
Property descriptor.

**textAlign**  
Property descriptor.

**textDecoration**  
Property descriptor.

**textIndent**  
Property descriptor.

**textTransform**  
Property descriptor.

**textUnderlineStyle**  
Property descriptor.

**verticalAlign**  
Property descriptor.

**whiteSpace**  
Property descriptor.

**width**  
Property descriptor.

### 3.1.2 qstylizer.descriptor.pseudoprop

**class** qstylizer.descriptor.pseudoprop.**PseudoPropDescriptor** (*name*)  
Pseudo-property descriptor.

**rule\_cls**

**class** qstylizer.descriptor.pseudoprop.**PseudoPropParent**  
Pseudo-property setter.

Contains descriptors for all known pseudo-properties.

**left**  
Pseudo-property descriptor.

**right**  
Pseudo-property descriptor.

**top**  
Pseudo-property descriptor.

**bottom**  
Pseudo-property descriptor.

### 3.1.3 qstylizer.descriptor.pseudostate

**class** qstylizer.descriptor.pseudostate.**PseudoStateDescriptor** (*name*)  
Pseudo-state descriptor.

**rule\_cls**

**class** qstylizer.descriptor.pseudostate.**PseudoStateParent**  
Pseudostate setter.

Contains descriptors for all known pseudostates.

**active**  
Pseudo-state descriptor.

**adjoinsItem**  
Pseudo-state descriptor.

**alternate**  
Pseudo-state descriptor.

**checked**  
Pseudo-state descriptor.

**closable**  
Pseudo-state descriptor.

**closed**  
Pseudo-state descriptor.

**default**  
Pseudo-state descriptor.

**disabled**  
Pseudo-state descriptor.

**editFocus**  
Pseudo-state descriptor.

**editable**  
Pseudo-state descriptor.

**enabled**  
Pseudo-state descriptor.

**exclusive**  
Pseudo-state descriptor.

**first**  
Pseudo-state descriptor.

**flat**  
Pseudo-state descriptor.

**floatable**  
Pseudo-state descriptor.

**focus**  
Pseudo-state descriptor.

**hasChildren**  
Pseudo-state descriptor.

**hasSiblings**

Pseudo-state descriptor.

**horizontal**

Pseudo-state descriptor.

**hover**

Pseudo-state descriptor.

**indeterminate**

Pseudo-state descriptor.

**last**

Pseudo-state descriptor.

**maximized**

Pseudo-state descriptor.

**middle**

Pseudo-state descriptor.

**minimized**

Pseudo-state descriptor.

**movable**

Pseudo-state descriptor.

**nextSelected**

Pseudo-state descriptor.

**noFrame**

Pseudo-state descriptor.

**nonExclusive**

Pseudo-state descriptor.

**off**

Pseudo-state descriptor.

**on**

Pseudo-state descriptor.

**onlyOne**

Pseudo-state descriptor.

**open**

Pseudo-state descriptor.

**pressed**

Pseudo-state descriptor.

**previousSelected**

Pseudo-state descriptor.

**readOnly**

Pseudo-state descriptor.

**selected**

Pseudo-state descriptor.

**unchecked**

Pseudo-state descriptor.

**vertical**  
Pseudo-state descriptor.

**window**  
Pseudo-state descriptor.

### 3.1.4 qstylizer.descriptor.qclass

**class** qstylizer.descriptor.qclass.**ClassStyleDescriptor** (*name*)  
QClass descriptor.

**rule\_cls**

**class** qstylizer.descriptor.qclass.**ClassStyleParent**  
QClass setter.

Contains descriptors for all known QClasses.

**QAbstractScrollArea**  
QClass descriptor.

**QCheckBox**  
QClass descriptor.

**QColumnView**  
QClass descriptor.

**QComboBox**  
QClass descriptor.

**QDateEdit**  
QClass descriptor.

**QDateTimeEdit**  
QClass descriptor.

**QDialog**  
QClass descriptor.

**QDialogButtonBox**  
QClass descriptor.

**QDockWidget**  
QClass descriptor.

**QDoubleSpinBox**  
QClass descriptor.

**QFrame**  
QClass descriptor.

**QGroupBox**  
QClass descriptor.

**QHeaderView**  
QClass descriptor.

**QLabel**  
QClass descriptor.

**QLineEdit**  
QClass descriptor.

**QListView**  
QClass descriptor.

**QListWidget**  
QClass descriptor.

**QMainWindow**  
QClass descriptor.

**QMenu**  
QClass descriptor.

**QMenuBar**  
QClass descriptor.

**QMessageBox**  
QClass descriptor.

**QPlainTextEdit**  
QClass descriptor.

**QProgressBar**  
QClass descriptor.

**QPushButton**  
QClass descriptor.

**QRadioButton**  
QClass descriptor.

**QScrollArea**  
QClass descriptor.

**QScrollBar**  
QClass descriptor.

**QSizeGrip**  
QClass descriptor.

**QSlider**  
QClass descriptor.

**QSpinBox**  
QClass descriptor.

**QSplitter**  
QClass descriptor.

**QStatusBar**  
QClass descriptor.

**QTabBar**  
QClass descriptor.

**QTabWidget**  
QClass descriptor.

**QTableView**  
QClass descriptor.

**QTableWidget**  
QClass descriptor.

**QTextBrowser**  
QClass descriptor.

**QTextEdit**  
QClass descriptor.

**QTimeEdit**  
QClass descriptor.

**QToolBar**  
QClass descriptor.

**QToolButton**  
QClass descriptor.

**QToolBox**  
QClass descriptor.

**QToolTip**  
QClass descriptor.

**QTreeView**  
QClass descriptor.

**QTreeWidget**  
QClass descriptor.

**QWidget**  
QClass descriptor.

### 3.1.5 qstylizer.descriptor.stylerule

**class** qstylizer.descriptor.stylerule.**StyleRuleDescriptor** (*name*)  
StyleRule descriptor.

**\_\_init\_\_** (*name*)  
Initialize the StyleRuleDescriptor instance.

**Parameters** **name** – The attribute name of type string

**rule\_cls**

**class** qstylizer.descriptor.stylerule.**StyleRuleParent**  
StyleRule descriptor.

Contains functions for getting all known attributes of the StyleRule.

**classmethod** **get\_attributes** ()  
Get all of the settable attributes of the StyleRule.

Loop through all base classes to gather all known attributes. Returns a dictionary with the attribute name as the key and descriptor as the value.

**classmethod** **get\_attr\_options** ()  
Get all of the attribute names of the StyleRule.

Returns a set of all possible dashcase attribute names.

### 3.1.6 qstylizer.descriptor.subcontrol

**class** qstylizer.descriptor.subcontrol.**SubControlDescriptor** (*name*)  
Subcontrol descriptor.

**rule\_cls**

**class** qstylizer.descriptor.subcontrol.**SubControlParent**  
Subcontrol setter.

Contains descriptors for all known subcontrols.

**addLine**

Subcontrol descriptor.

**addPage**

Subcontrol descriptor.

**branch**

Subcontrol descriptor.

**chunk**

Subcontrol descriptor.

**closeButton**

Subcontrol descriptor.

**corner**

Subcontrol descriptor.

**downArrow**

Subcontrol descriptor.

**downButton**

Subcontrol descriptor.

**dropDown**

Subcontrol descriptor.

**floatButton**

Subcontrol descriptor.

**groove**

Subcontrol descriptor.

**indicator**

Subcontrol descriptor.

**handle**

Subcontrol descriptor.

**icon**

Subcontrol descriptor.

**item**

Subcontrol descriptor.

**leftArrow**

Subcontrol descriptor.

**leftCorner**

Subcontrol descriptor.

**menuArrow**  
Subcontrol descriptor.

**menuButton**  
Subcontrol descriptor.

**menuIndicator**  
Subcontrol descriptor.

**rightArrow**  
Subcontrol descriptor.

**pane**  
Subcontrol descriptor.

**rightCorner**  
Subcontrol descriptor.

**scroller**  
Subcontrol descriptor.

**section**  
Subcontrol descriptor.

**separator**  
Subcontrol descriptor.

**subLine**  
Subcontrol descriptor.

**subPage**  
Subcontrol descriptor.

**tab**  
Subcontrol descriptor.

**tabBar**  
Subcontrol descriptor.

**tear**  
Subcontrol descriptor.

**tearoff**  
Subcontrol descriptor.

**text**  
Subcontrol descriptor.

**title**  
Subcontrol descriptor.

**upArrow**  
Subcontrol descriptor.

**upButton**  
Subcontrol descriptor.

## 3.2 qstylizer.parser

## 3.3 qstylizer.style



## CHAPTER 4

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### Indices and tables

---

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



### q

- `qstylizer`, [11](#)
- `qstylizer.descriptor`, [11](#)
- `qstylizer.descriptor.prop`, [11](#)
- `qstylizer.descriptor.pseudoprop`, [16](#)
- `qstylizer.descriptor.pseudostate`, [17](#)
- `qstylizer.descriptor.qclass`, [19](#)
- `qstylizer.descriptor.stylerule`, [21](#)
- `qstylizer.descriptor.subcontrol`, [22](#)



## Symbols

|                                                                                                     |                                                                                                   |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <code>__init__()</code> ( <i>qstylizer.descriptor.stylerule.StyleRuleDescriptor</i> method), 21     | <code>backgroundPosition</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12      |
| <b>A</b>                                                                                            | <code>backgroundRepeat</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12        |
| <code>active</code> ( <i>qstylizer.descriptor.pseudostate.PseudoStateParent</i> attribute), 17      | <code>border</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12                  |
| <code>addLine</code> ( <i>qstylizer.descriptor.subcontrol.SubControlParent</i> attribute), 22       | <code>borderBottom</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12            |
| <code>addPage</code> ( <i>qstylizer.descriptor.subcontrol.SubControlParent</i> attribute), 22       | <code>borderBottomColor</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12       |
| <code>adjoinsItem</code> ( <i>qstylizer.descriptor.pseudostate.PseudoStateParent</i> attribute), 17 | <code>borderBottomLeftRadius</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12  |
| <code>alignment</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12                 | <code>borderBottomRightRadius</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12 |
| <code>alternate</code> ( <i>qstylizer.descriptor.pseudostate.PseudoStateParent</i> attribute), 17   | <code>borderBottomStyle</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12       |
| <code>alternateBackgroundColor</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12  | <code>borderBottomWidth</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12       |
| <b>B</b>                                                                                            | <code>borderColor</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12             |
| <code>background</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12                | <code>borderImage</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 13             |
| <code>backgroundAttachment</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12      | <code>borderLeft</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 13              |
| <code>backgroundClip</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12            | <code>borderLeftColor</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 13         |
| <code>backgroundColor</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12           | <code>borderLeftStyle</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 13         |
| <code>backgroundImage</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12           | <code>borderLeftWidth</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 13         |
| <code>backgroundOrigin</code> ( <i>qstylizer.descriptor.prop.PropParent</i> attribute), 12          |                                                                                                   |

- `borderRadius` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderRight` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderRightColor` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderRightStyle` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderRightWidth` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderStyle` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderTop` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderTopColor` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderTopLeftRadius` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderTopRightRadius` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderTopStyle` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderTopWidth` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `borderWidth` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `bottom` (*qstylizer.descriptor.pseudoprop.PseudoPropParent attribute*), 16
  - `branch` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22
- ## C
- `checked` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
  - `chunk` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22
  - `ClassStyleDescriptor` (class in *qstylizer.descriptor.qclass*), 19
  - `ClassStyleParent` (class in *qstylizer.descriptor.qclass*), 19
  - `closable` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
  - `closeButton` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22
- ## D
- `closed` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
  - `color` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `comboboxPopup` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `corner` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22
- ## E
- `editable` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
  - `editFocus` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
  - `enabled` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
  - `exclusive` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
- ## F
- `first` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
  - `flat` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
  - `float` (*qstylizer.descriptor.prop.PropParent attribute*), 13
  - `floatable` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
  - `floatButton` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22
  - `focus` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17
  - `font` (*qstylizer.descriptor.prop.PropParent attribute*), 14
  - `fontFamily` (*qstylizer.descriptor.prop.PropParent attribute*), 14
  - `fontSize` (*qstylizer.descriptor.prop.PropParent attribute*), 14
  - `fontStyle` (*qstylizer.descriptor.prop.PropParent attribute*), 14
  - `fontVariant` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`fontWeight` (*qstylizer.descriptor.prop.PropParent attribute*), 14

## G

`get_attr_options()` (*qstylizer.descriptor.stylerule.StyleRuleParent class method*), 21

`get_attributes()` (*qstylizer.descriptor.stylerule.StyleRuleParent class method*), 21

`groove` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22

## H

`handle` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22

`hasChildren` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17

`hasSiblings` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 17

`height` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`horizontal` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

`hover` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

## I

`icon` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22

`iconSize` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`image` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`imagePosition` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`indeterminate` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

`indicator` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22

`item` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22

## L

`last` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

`left` (*qstylizer.descriptor.pseudoprop.PseudoPropParent attribute*), 16

`leftArrow` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22

`leftCorner` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22

`lineHeight` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`listStyle` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`listStyleType` (*qstylizer.descriptor.prop.PropParent attribute*), 14

## M

`margin` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`marginBottom` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`marginLeft` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`marginRight` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`marginTop` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`maxHeight` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`maximized` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

`maxWidth` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`menuArrow` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 22

`menuButton` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 23

`menuIndicator` (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 23

`middle` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

`minHeight` (*qstylizer.descriptor.prop.PropParent attribute*), 14

`minimized` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

`minWidth` (*qstylizer.descriptor.prop.PropParent attribute*), 15

`movable` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

## N

`nextSelected` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

`noFrame` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

`nonExclusive` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18

## O

off (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18  
 on (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18  
 onlyOne (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18  
 open (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18  
 outline (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 outlineBottomLeftRadius (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 outlineBottomRightRadius (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 outlineColor (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 outlineOffset (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 outlineRadius (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 outlineStyle (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 outlineTopLeftRadius (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 outlineTopRightRadius (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 outlineWidth (*qstylizer.descriptor.prop.PropParent attribute*), 15

## P

padding (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 paddingBottom (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 paddingLeft (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 paddingRight (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 paddingTop (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 pageBreakAfter (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 pageBreakBefore (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 pane (*qstylizer.descriptor.subcontrol.SubControlParent attribute*), 23

position (*qstylizer.descriptor.prop.PropParent attribute*), 15  
 pressed (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18  
 previousSelected (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), 18  
 PropDescriptor (*class in qstylizer.descriptor.prop*), 11  
 PropParent (*class in qstylizer.descriptor.prop*), 11  
 PseudoPropDescriptor (*class in qstylizer.descriptor.pseudoprop*), 16  
 PseudoPropParent (*class in qstylizer.descriptor.pseudoprop*), 16  
 PseudoStateDescriptor (*class in qstylizer.descriptor.pseudostate*), 17  
 PseudoStateParent (*class in qstylizer.descriptor.pseudostate*), 17

## Q

QAbstractScrollArea (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QCheckBox (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QColumnView (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QComboBox (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QDateEdit (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QDateTimeEdit (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QDialog (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QDialogButtonBox (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QDockWidget (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QDoubleSpinBox (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QFrame (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QGroupBox (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19  
 QHeaderView (*qstylizer.descriptor.qclass.ClassStyleParent attribute*), 19

|                                                                                      |                                                                                    |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| QLabel ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 19         | qstylizer.descriptor.stylerule ( <i>module</i> ), 21                               |
| QLineEdit ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 19      | qstylizer.descriptor.subcontrol ( <i>module</i> ), 22                              |
| QListView ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 19      | QTabBar ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20      |
| QListWidget ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20    | QTableView ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20   |
| QMainWindow ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20    | QTableWidget ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20 |
| QMenu ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20          | QTabWidget ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20   |
| QMenuBar ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20       | qtBackgroundRole ( <i>qstylizer.descriptor.prop.PropParent attribute</i> ), 11     |
| QMessageBox ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20    | qtBlockIndent ( <i>qstylizer.descriptor.prop.PropParent attribute</i> ), 11        |
| QPlainTextEdit ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20 | QTextBrowser ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20 |
| QProgressBar ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20   | QTextEdit ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 21    |
| QPushButton ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20    | QTimeEdit ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 21    |
| QRadioButton ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20   | qtLineHeightType ( <i>qstylizer.descriptor.prop.PropParent attribute</i> ), 11     |
| QScrollArea ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20    | qtListIndent ( <i>qstylizer.descriptor.prop.PropParent attribute</i> ), 11         |
| QScrollBar ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20     | qtListNumberPrefix ( <i>qstylizer.descriptor.prop.PropParent attribute</i> ), 11   |
| QSizeGrip ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20      | qtListNumberSuffix ( <i>qstylizer.descriptor.prop.PropParent attribute</i> ), 11   |
| QSlider ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20        | QToolBar ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 21     |
| QSpinBox ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20       | QToolBox ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 21     |
| QSplitter ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20      | QToolButton ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 21  |
| QStatusBar ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 20     | QToolTip ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 21     |
| qstylizer ( <i>module</i> ), 11                                                      | qtParagraphType ( <i>qstylizer.descriptor.prop.PropParent attribute</i> ), 11      |
| qstylizer.descriptor ( <i>module</i> ), 11                                           | QTreeView ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 21    |
| qstylizer.descriptor.prop ( <i>module</i> ), 11                                      | QTreeWidget ( <i>qstylizer.descriptor.qclass.ClassStyleParent attribute</i> ), 21  |
| qstylizer.descriptor.pseudoprop ( <i>module</i> ), 16                                | qtStyleFeatures ( <i>qstyl-</i>                                                    |
| qstylizer.descriptor.pseudostate ( <i>module</i> ), 17                               |                                                                                    |
| qstylizer.descriptor.qclass ( <i>module</i> ), 19                                    |                                                                                    |

[izer.descriptor.prop.PropParent attribute\), 12](#), [StyleRuleParent \(class in qstylizer.descriptor.stylerule\), 21](#)  
[qtTableType \(qstylizer.descriptor.prop.PropParent attribute\), 12](#), [SubControlDescriptor \(class in qstylizer.descriptor.subcontrol\), 22](#)  
[qtUserState \(qstylizer.descriptor.prop.PropParent attribute\), 12](#), [subcontrolOrigin \(qstylizer.descriptor.prop.PropParent attribute\), 16](#)  
[QWidget \(qstylizer.descriptor.qclass.ClassStyleParent attribute\), 21](#), [SubControlParent \(class in qstylizer.descriptor.subcontrol\), 22](#)  
**R** [subcontrolPosition \(qstylizer.descriptor.prop.PropParent attribute\), 16](#)  
[readOnly \(qstylizer.descriptor.pseudostate.PseudoStateParent attribute\), 18](#), [subLine \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[right \(qstylizer.descriptor.pseudoprop.PseudoPropParent attribute\), 16](#), [subPage \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[rightArrow \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[rightCorner \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
**T**  
[rule\\_cls \(qstylizer.descriptor.prop.PropDescriptor attribute\), 11](#), [tab \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[rule\\_cls \(qstylizer.descriptor.pseudoprop.PseudoPropDescriptor attribute\), 16](#), [tabBar \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[rule\\_cls \(qstylizer.descriptor.pseudostate.PseudoStateDescriptor attribute\), 17](#), [tear \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[rule\\_cls \(qstylizer.descriptor.qclass.ClassStyleDescriptor attribute\), 19](#), [tearoff \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[rule\\_cls \(qstylizer.descriptor.stylerule.StyleRuleDescriptor attribute\), 21](#), [text \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[rule\\_cls \(qstylizer.descriptor.subcontrol.SubControlDescriptor attribute\), 22](#), [textAlign \(qstylizer.descriptor.prop.PropParent attribute\), 16](#)  
[textDecoration \(qstylizer.descriptor.prop.PropParent attribute\), 16](#)  
**S** [textIndent \(qstylizer.descriptor.prop.PropParent attribute\), 16](#)  
[scroller \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#), [textTransform \(qstylizer.descriptor.prop.PropParent attribute\), 16](#)  
[section \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#), [textUnderlineStyle \(qstylizer.descriptor.prop.PropParent attribute\), 16](#)  
[selected \(qstylizer.descriptor.pseudostate.PseudoStateParent attribute\), 18](#), [title \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[selectionBackgroundColor \(qstylizer.descriptor.prop.PropParent attribute\), 15](#), [top \(qstylizer.descriptor.pseudoprop.PseudoPropParent attribute\), 16](#)  
[selectionColor \(qstylizer.descriptor.prop.PropParent attribute\), 15](#)  
**U**  
[separator \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#), [unchecked \(qstylizer.descriptor.pseudostate.PseudoStateParent attribute\), 18](#)  
[showDecorationSelected \(qstylizer.descriptor.prop.PropParent attribute\), 16](#), [upArrow \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[spacing \(qstylizer.descriptor.prop.PropParent attribute\), 16](#), [upButton \(qstylizer.descriptor.subcontrol.SubControlParent attribute\), 23](#)  
[StyleRuleDescriptor \(class in qstylizer.descriptor.stylerule\), 21](#)

## V

`vertical` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), [18](#)

`verticalAlign` (*qstylizer.descriptor.prop.PropParent attribute*), [16](#)

## W

`whiteSpace` (*qstylizer.descriptor.prop.PropParent attribute*), [16](#)

`width` (*qstylizer.descriptor.prop.PropParent attribute*), [16](#)

`window` (*qstylizer.descriptor.pseudostate.PseudoStateParent attribute*), [19](#)