htmlPy Documentation

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HTML5-CSS3-Javascript based GUI libary in Python

htmlPy is a wrapper around PySide's QtWebKit library. It helps with creating beautiful GUIs using **HTML5**, CSS3 and Javascript for standalone Python applications. It is built on Qt which makes it highly customizable and crossplatform. htmlPy is compatible with both **Python2 and Python3**. It can be used with any python library or environment like django, flask, scipy, virtualenv etc. You can use front-end libraries and frameworks like bootstrap, jQuery, jQuery UI etc. and create GUIs for your applications in no time.

To start using htmlPy, please read installation instructions.

You can get the source at GitHub repository. Versions older than 2.0.0 are not recommended for use in production.

Contents:

Installation

1.1 Installing htmlPy

Note: htmlPy is dependent on PySide which is not included in dependencies. Please refer the installation instructions for PySide.

You can install htmlPy with **pip**:

```
$ [sudo] pip install htmlPy
```

Or with easy_install:

```
$ [sudo] easy_install htmlPy
```

Or download the compressed archive from PyPI, extract it, and inside it, run:

```
$ [sudo] python setup.py install
```

Note: Superuser access may be required if you are trying to install htmlPy globally. Please use **sudo** before the above commands in such case.

1.2 Installing PySide

Note: For detailed installation instructions, refer PySide documentation.

htmlPy is dependent on PySide which is not included in the dependencies of htmlPy installation. PySide has to be installed manually. Following are the ways to do this.

1. On Windows PySide can be installed with pip:

\$ pip install PySide

Or with easy_install:

\$ easy_install PySide

2. On Mac OS X

You need to install or build Qt 4.8 first. You can use Homebrew and install Qt with:

\$ brew install qt

After this, PySide can be installed with pip:

\$ pip install PySide

Or with easy_install:

\$ easy_install PySide

2. On Linux (refer this for detailed instructions) Installing PySide on linux with python installers is very slow as it requires compiling PySide from scratch. Hence, it is not included in the dependencies.

A faster way is to use package managers of the operating system. On Ubuntu, you can install it with:

```
$ sudo apt-get install python-pyside
or:
```

```
$ sudo apt-get install python3-pyside
```

depending on the python version.

If you are installing in a virtualenv or if you want to build PySide from scratch, you can install it with python installers. (This will take quite some time to compile):

\$ [sudo] pip install PySide \$ [sudo] easy_install PySide

Or refer to this link.

Quickstart tutorial of htmlPy

2.1 Standalone application

Following code assumes that there is a file index.html in the same directory as the file and the script is being executed fromt the same directory.

```
import htmlPy
import os
app = htmlPy.AppGUI(title=u"htmlPy Quickstart", maximized=True)
app.template_path = os.path.abspath(".")
app.static_path = os.path.abspath(".")
app.template = ("index.html", {"username": "htmlPy_user"})
app.start()
```

The above code instantiates an application, renders index.html file in that application using Jinja2 templating engine and starts it.

2.2 Web based application

Following code is a web-based application displaying Python website. You can change the URL to a local or network server to display any website as an application.

```
import htmlPy
```

```
web_app = htmlPy.WebAppGUI(title=u"Python Website", maximized=True)
web_app.url = u"http://python.org/"
```

web_app.start()

Important instructions for application development with htmlPy

3.1 Use a driver file

Keep your application modularized. Use a separate file for initialization, configuration and execution of htmlPy GUI. Do not include any back-end functionalities in this file. The driver file structure should be

- 1. Initial configurations
- 2. htmlPy GUI initialization
- 3. htmlPy GUI configuration
- 4. Binding of back-end functionalities with GUI
 - (a) Import back-end functionalities
 - (b) Bind imported functionalities
- 5. Instructions for running front-end in if ___name__ == "__main__": conditional. Always keep the GUI starter code in the "if __name__ == "__main__": " conditional. The GUI has to be started only when the driver file is running, not when it is being imported

Here's a sample driver file

```
import os
import htmlPy
from PyQt4 import QtGui
# Initial confiurations
BASE_DIR = os.path.abspath(os.path.dirname(__file__))
# GUI initializations
app = htmlPy.AppGUI(title=u"Application", maximized=True, plugins=True)
# GUI configurations
app.static_path = os.path.join(BASE_DIR, "static/")
app.template_path = os.path.join(BASE_DIR, "templates/")
app.web_app.setMinimumWidth(1024)
app.web_app.setMinimumHeight(768)
app.window.setWindowIcon(QtGui.QIcon(BASE_DIR + "/static/img/icon.png"))
```

Binding of back-end functionalities with GUI
Import back-end functionalities
from html_to_python import ClassName
Register back-end functionalities
app.bind(ClassName())
Instructions for running application
if __name__ == "__main__":
 # The driver file will have to be imported everywhere in back-end.
 # So, always keep app.start() in if __name__ == "__main__" conditional
 app.start()

3.2 Set static_path and template_path

When using htmlPy.AppGUI, always set static_path and template_path right after instantiating GUI. Set BASE_DIR variable as the absolute path to the directory of the driver file and set static_path and template_path with respect to BASE_DIR. Refer to the driver file section for example.

htmlPy uses Jinja2 for templating which is inspired by Django's templating system but extends with powerful tools. Jinja2 requires a base directory to be set. This can be done by setting the template_path as displayed in driver file section. You can use your own templating system as htmlPy.AppGUI allows setting the attribute html.

static_path is where all the static files including images, stylesheets and javascripts are stored. The static files will have to be present on the user computer and using htmlPy static filter, their links can be generated dynamically. For example,

```
<script src="{{ 'js/jquery.min.js'|staticfile }}"></script>
<link rel="stylesheet" href="{{ 'css/bootstrap.min.css'|staticfile }}"></script</pre>
```

Tutorials for common tasks

Following are some basic instructions for performing most common GUI and Python tasks with htmlPy.

4.1 GUI to Python calls

These calls work only for htmlPy.AppGUI applications.

An essential aspect of GUI is to attach back-end calls to GUI events. htmlPy needs the corresponding back-end functions to be selectively exposed to GUI. The calls from GUI can be done in very HTML way.

The back-end functions that have to be attached to GUI events are defined as follows

```
import htmlPy
import json
from sample_app import app as htmlPy_app
class ClassName(htmlPy.Object):
    # GUI callable functions have to be inside a class.
    # The class should be inherited from htmlPy.Object.
    def __init__(self):
        super(ClassName. self).___init___()
        # Initialize the class here, if required.
        return
    @htmlPy.Slot()
    def function_name(self):
        # This is the function exposed to GUI events.
        # You can change app HTML from here.
        # Or, you can do pretty much any python from here.
        #
        # NOTE: @htmlPy.Slot decorater needs argument and return data-types.
        # Refer to API documentation.
        return
    @htmlPy.Slot(str, result=str)
    def form_function_name(self, json_data):
        # @htmlPy.Slot(arg1_type, arg2_type, ..., result=return_type)
        # This function can be used for GUI forms.
        #
        form_data = json.loads(json_data)
```

```
return json.dumps(form_data)
@htmlPy.Slot()
def javascript_function(self):
    # Any function decorated with @htmlPy.Slot decorater can be called
    # using javascript in GUI
    return
## You have to bind the class instance to the AppGUI instance to be
```

```
## callable from GUI
```

htmlPy_app.bind(ClassName())

After exposing the class methods to GUI, they can be called from HTML as follows

```
<a href="ClassName.function_name" id="link" data-bind="true">GUI clickable link</a> <!-- The "a" tag needs to have unique ID and data-bind attribute set to "true" The ClassName and function_name have to be set in href attribute as displayed above. The "a" tag can be styled using CSS with other HTML elements inside it -->
```

<script>

```
ClassName.javascript_function();
// You can treat the class inherited from htmlPy.Object (in this case, ClassName)
// as a javascript object.
</script>
```

4.2 Python to GUI calls

```
from sample_app import app
# app imported from sample_app file is an instance of htmlPy.AppGUI class.
## Change HTML of the app
app.html = u"<html></html>"
## Change HTML of the app using Jinja2 templates
app.template = ("./index.html", {"template_variable_name": "value"})
## Execute javascript on currently displayed HTML in the app
app.evaluate_javascript("alert('Hello from back-end')")
```

4.3 General structure of htmlPy applications

Following should be a general directory structure for htmlPy applications

```
back_end_codes/
static/
    css/
        style.css
        .
    js/
        script.js
    img/
        logo.img
templates/
    first_template_directory/
        template1.html
        template2.html
    another_template_directory/
        another_template.html
   base_layout.html
main.py
```

main.py is the driver file for the applications. In the driver file, you should initialize GUI, import functionalities from back_end_codes and bind it to GUI as explained on the first section of this page. Refer this section for sample driver file.

In the back_end_codes, you can import the app from main.py and perform operations on in as explained in this section.

4.4 Integration with django

Django can be used for standalone application development using htmlPy. The integration can be done easily. In the previous section, the django application and projects can be kept in back_end_codes directory. In the GUI driver file, include this code before initializing GUI for loading django settings.

```
import os
os.environ.setdefault("DJANGO_SETTINGS_MODULE", "<project_name>.settings")
```

Note: TODO: Add sample application developed using django and htmlPy

4.5 Using file input

htmlPy replaces the HTML file input code with PyQt's file dialog. To use file input, write the file input tag with an additional data attribute for filtering extensions, if required. The filter attribute string should be of the form "[{'title': 'title for extension', 'extensions': 'space separated extensions'}, {'title': 'title for another extension', 'extensions': 'space separated extensions'}]". For example <input type="file" name="file" id="file" data-filter="[{'title': 'Images', 'extensions': '*.png *.xpn

The json returned to the python backend for the form will have the absolute path of the selected file as the input value.

API Reference

5.1 Class htmlPy.AppGUI (htmlPy.BaseGUI)

class htmlPy.AppGUI (*args, **kwargs)

GUI class for creating apps using PySide's QtWebkit.

The class AppGUI can be used to create standalone applications with HTML GUI. It uses Jinja2 templating engine for generating HTML which can be overridden.

Note: Arguments and Attributes of this class come from the parent class htmlPy.BaseGUI. Please refer to its documentation for more details.

Keyword Arguments

- title (Optional[unicode]) The title of the window. Defaults to u"Application".
- width (*Optional[int]*) Width of the window in pixels. Defaults to 800 px. Redundant if maximized is True.
- height (*Optional[int]*) Height of the window in pixels. Defaults to 600 px. Redundant if maximized is True.
- **x_pos** (*Optional[int]*) The X-coordinate for top-left corner of the window in pixels. Defaults to 10 px. Redundant if maximized is True.
- **y_pos** (*Optional[int]*) The Y-coordinate for top-left corner of the window in pixels. Defaults to 10 px. Redundant if maximized is True.
- **maximized** (*Optional[bool]*) window is maximized when set to True. Defaults to False.
- **plugins** (*Optional[bool]*) Enables plugins like flash when set as True. Defaults to False.
- developer_mode (*Optional[bool]*) Enables developer mode when set as True. Defaults to False. The developer mode gives access to web inspector and other development tools and enables right-click on the webpage.
- allow_overwrite (*Optional[bool]*) PySide.QtGui.QApplication can be instantiated only once. If it is already instantiated, then setting allow_overwrite to True overwrites the QApplication's window with window of this class instance. If False, RuntimeError is raised. If QApplication is not instantiated, this is irrelevent.

app

PySide.QtGui.QApplication – The singleton Qt application object. This can be instantiated only once in the entire process.

window

PySide.QtGui.QMainWindow – The window being displayed in the app.

web_app

PySide.QtWebKit.QWebView – The web view widget which renders and displays HTML in the a window.

html

unicode property – The HTML currently rendered in the web_app. The HTML in web_app can be changed by assigning the new HTML to this property.

static_path

str property – The absolute path relative to which the staticfile filter will create links in templating. Changing this creates a function dynamically which replaces current staticfile filter in current templating environment.

template_path

str property – The absolute path relative to which jinja2 finds the templates to be rendered. Changing this updates the template loader in current templating environment.

template

tuple(str, dict – The current template being displayed in web_app. First element of the tuple is the path of the template file relative to template_path. The second element of the tuple is the context dictionary in which it is being rendered.

maximized

bool property – A boolean which describes whether the window is maximized or not. Can be set to True to maximize the window and set to False to restore.

width

int property – Width of the window in pixels. Set the value of this property in pixels to change the width.

height

int property – Height of the window in pixels. Set the value of this property in pixels to change the height.

x_pos

int property – The X-coordinate for top-left corner of the window in pixels. Set the value of this property in pixels to move the window horizontally.

y_pos

int property – The Y-coordinate for top-left corner of the window in pixels. Set the value of this property in pixels to move the window vertically.

title

unicode property – The title of the window. Set the value of this property to change the title.

plugins

bool property – A boolean flag which indicates whether plugins like flash are enabled or not. Set the value to True or False as required.

developer_mode

bool property – A boolean flag which indicated whether developer mode is active or not. The developer mode gives access to web inspector and other development tools and enables right-click on the webpage. Set the value to True or False as required.

Raises RuntimeError – If PySide.QtGui.QApplication is already instantiated and allow_overwrite is False.

delattr x. delattr ('name') <==> del x.name ___format__() default object formatter getattribute x. getattribute ('name') <==> x.name hash $x._hash_() \le hash(x)$ _reduce_() helper for pickle ___reduce_ex__() helper for pickle __repr_ $x_repr_() \leq repr(x)$ setattr x.__setattr__('name', value) <==> x.name = value $_sizeof_() \rightarrow int$ size of object in memory, in bytes ______str__ $x._str_() \leq str(x)$ auto resize() Resizes and relocates the window to previous state If the window is not maximized, this function resizes it to the stored dimensions, moves it to the stored location.

bind (signal_object, variable_name=None)

Binds an object to be called from GUI javascript.

This function binds an object to the javascript window of the page. The signal_object should be inherited from htmlPy.Object. The methods that should be callable from javascript should be decorated with htmlPy.Slot. A variable name can be supplied which will be the name of the variable in javascript corresponding to that object. Otherwise, name of the class of that object will be used as the variable name

Parameters signal_object (*htmlPy.Object*) – The object that has to be bound to GUI javascript.

Keyword Arguments variable_name (*str*) - The name of the javascript variable the object should be attached to. Defaults to None. If None, signal_object.__class_._name__ is used.

Raises

- TypeError If signal_object is not of type htmlPy.Object.
- NameError If variable_name is "GUIHelper" or name of the class of signal_object is "GUIHelper"

evaluate_javascript(javascript_string)

Evaluates javascript in web page currently displayed

Parameters javascript_string (*str*) – The string of javascript code that has to be evaluated.

execute()

Executes the application without ending the process on its end.

DO NOT execute this process directly. Use only when htmlPy.BaseGUI.stop() is connected to some signal.

right_click_setting(value)

Javascript based setting for right click on the application.

This function changes the web page's behaviour on right click. Normal behaviour is to open a context menu. Enabling right click exhibits that behaviour. Right click is enabled by default. Disabling right click suppresses context menu for entire page. Enabling right click for only inputs suppresses context menu for all elements excepts inputs and textarea, which is the recommended option. The arguments provided should be from htmlPy.settings module as explained further.

Parameters value (int) - should be either htmlPy.settings.ENABLE (default)
 or htmlPy.settings.DISABLE or htmlPy.settings.INPUTS_ONLY (recom mended)

start()

Starts the application.

This is not asynchronous. Starting the application will halt the further processes. DO NOT start outside the if _____mame___ == "___main___": conditional

stop()

Stops the application. Use only to bind with signals.

The Qt application does not have to be manually stopped. Also, after starting the application is stuck in the execution loop and will not go further until it is stopped. Calling this function manually is redundant. This function exits only to be binded with QSignals to stop the application when that signal is emitted.

template

tuple(str, dict) – The current template being displayed in web_app. First element of the tuple is the path of the template file relative to template_path. The second element of the tuple is the context dictionary in which it is being rendered.

text_selection_setting(value)

Javascript based setting for text selection in the application.

This function changes the web page's behaviour on selection of text. Normal behaviour is to highlight the selected text. Enabling text selection exhibits that behaviour. Text selection is enabled by default. Disabling text selection disallows user to select any text on the page except for inputs and disables the I-beam cursor for text selection. The arguments provided should be from htmlPy.settings module as explained further.

Parameters value (*int*) - should be either htmlPy.settings.ENABLE (default) or htmlPy.settings.DISABLE or

5.2 Class htmlPy.WebAppGUI (htmlPy.BaseGUI)

class htmlPy.WebAppGUI (*args, **kwargs)

GUI class for creating web apps using PySide's Qt.

The class WebAppGUI can be used to create web based applications in a QtWebKit based browser running on user side. The server for the web app can be remote or local. This can be used for quick desktop deployment of existing websites. However, for a standalone application, it is recommended to used htmlPy.AppGUI class.

Note: Arguments and Attributes of this class come from the parent class htmlPy.BaseGUI. Please refer to its documentation for more details.

Keyword Arguments

- title (Optional[unicode]) The title of the window. Defaults to u"Application".
- width (*Optional[int]*) Width of the window in pixels. Defaults to 800 px. Redundant if maximized is True.
- height (*Optional[int]*) Height of the window in pixels. Defaults to 600 px. Redundant if maximized is True.
- **x_pos** (*Optional[int]*) The X-coordinate for top-left corner of the window in pixels. Defaults to 10 px. Redundant if maximized is True.
- **y_pos** (*Optional[int]*) The Y-coordinate for top-left corner of the window in pixels. Defaults to 10 px. Redundant if maximized is True.
- **maximized** (*Optional[bool]*) window is maximized when set to True. Defaults to False.
- **plugins** (*Optional[bool]*) Enables plugins like flash when set as True. Defaults to False.
- developer_mode (*Optional[bool]*) Enables developer mode when set as True. Defaults to False. The developer mode gives access to web inspector and other development tools and enables right-click on the webpage.
- allow_overwrite (*Optional[bool]*) PySide.QtGui.QApplication can be instantiated only once. If it is already instantiated, then setting allow_overwrite to True overwrites the QApplication's window with window of this class instance. If False, RuntimeError is raised. If QApplication is not instantiated, this is irrelevent.

app

PySide.QtGui.QApplication – The singleton Qt application object. This can be instantiated only once in the entire process.

window

PySide.QtGui.QMainWindow – The window being displayed in the app.

web_app

PySide.QtWebKit.QWebView – The web view widget which renders and displays HTML in the a window.

url

unicode property – The URL currently being displayed in window. Set the property to a URL unicode string to change the URL being displayed.

html

unicode property – The HTML currently rendered in the web_app. This is a readonly property.

maximized

bool property – A boolean which describes whether the window is maximized or not. Can be set to True to maximize the window and set to False to restore.

width

int property – Width of the window in pixels. Set the value of this property in pixels to change the width.

height

int property – Height of the window in pixels. Set the value of this property in pixels to change the height.

x_pos

int property – The X-coordinate for top-left corner of the window in pixels. Set the value of this property in pixels to move the window horizontally.

y_pos

int property – The Y-coordinate for top-left corner of the window in pixels. Set the value of this property in pixels to move the window vertically.

title

unicode property – The title of the window. Set the value of this property to change the title.

plugins

bool property – A boolean flag which indicates whether plugins like flash are enabled or not. Set the value to True or False as required.

developer_mode

bool property – A boolean flag which indicated whether developer mode is active or not. The developer mode gives access to web inspector and other development tools and enables right-click on the webpage. Set the value to True or False as required.

Raises RuntimeError – If PySide.QtGui.QApplication is already instantiated and allow_overwrite is False.

__delattr__

x.__delattr__('name') <==> del x.name

___format___() default object formatter

__getattribute_

x.__getattribute__('name') <==> x.name

hash

 $x._hash_() \le hash(x)$

___reduce__()

helper for pickle

___reduce_ex__() helper for pickle

__repr_

 $x._repr_() \le repr(x)$

__setattr__

x.__setattr__('name', value) <==> x.name = value

$_sizeof_() \rightarrow int$

size of object in memory, in bytes

str

x.__str__() <==> str(x)

auto_resize()

Resizes and relocates the window to previous state

If the window is not maximized, this function resizes it to the stored dimensions, moves it to the stored location.

evaluate_javascript(javascript_string)

Evaluates javascript in web page currently displayed

Parameters javascript_string (*str*) – The string of javascript code that has to be evaluated.

execute()

Executes the application without ending the process on its end.

DO NOT execute this process directly. Use only when htmlPy.BaseGUI.stop() is connected to some signal.

html

unicode - The HTML currently rendered in the window.

This property will return the HTML which is being displayed in the web_app. This is not asynchronous. The URL set with htmlPy will not load until the window is in display.

right_click_setting(value)

Javascript based setting for right click on the application.

This function changes the web page's behaviour on right click. Normal behaviour is to open a context menu. Enabling right click exhibits that behaviour. Right click is enabled by default. Disabling right click suppresses context menu for entire page. Enabling right click for only inputs suppresses context menu for all elements excepts inputs and textarea, which is the recommended option. The arguments provided should be from htmlPy.settings module as explained further.

```
Parameters value (int) - should be either htmlPy.settings.ENABLE (default)
or htmlPy.settings.DISABLE or htmlPy.settings.INPUTS_ONLY (recom-
mended)
```

start()

Starts the application.

This is not asynchronous. Starting the application will halt the further processes. DO NOT start outside the if _____mame___ == "___main___": conditional

stop()

Stops the application. Use only to bind with signals.

The Qt application does not have to be manually stopped. Also, after starting the application is stuck in the execution loop and will not go further until it is stopped. Calling this function manually is redundant. This function exits only to be binded with QSignals to stop the application when that signal is emitted.

text_selection_setting(value)

Javascript based setting for text selection in the application.

This function changes the web page's behaviour on selection of text. Normal behaviour is to highlight the selected text. Enabling text selection exhibits that behaviour. Text selection is enabled by default. Disabling text selection disallows user to select any text on the page except for inputs and disables the I-beam cursor for text selection. The arguments provided should be from htmlPy.settings module as explained further.

Parameters value (*int*) - should be either htmlPy.settings.ENABLE (default) or htmlPy.settings.DISABLE or

5.3 Class htmlPy.Object

class htmlPy.Object

Alias of PySide.QtCore.QObject.

For binding python functionalities to GUI, the classes being bound should inherit htmlPy.Object. Its constructor has to be called. The methods of the class that have to be bound to GUI must be decorated with htmlPy.Slot.

Example: Refer to the API reference of htmlPy.Slot for an example.

5.4 Decorator htmlPy.Slot

class htmlPy.Slot

```
Alias of PySide.QtCore.Slot
```

This decorator binds the methods of classes which inherit htmlPy.Object to the GUI. The argument types and return type of the method being bound have to be provided as argument to the decorator.

Parameters

- *args ([type]) Data types of arguments of the method being decorated
- result (type) Data type of return value of the method being decorated

Example:

```
import htmlPy
htmlPy_app = htmlPy.AppGUI()
```

```
class BindingClass(htmlPy.Object):
```

```
@htmlPy.Slot(str, int, result=int)
def binding_method(self, string_arg, int_arg):
    int_return = 1
    return int_return
```

```
htmlPy_app.bind(BindingClass())
```

5.5 Module htmlPy.settings

htmlPy.settings has 3 variables.

```
htmlPy.settings.ENABLE
Used for enabling some setting
```

htmlPy.settings.**DISABLE** Used for enabling some setting

```
htmlPy.settings.INPUTS_ONLY
```

Currently used only to DISABLE right clicking on application except for input fields.

5.6 Class htmlPy.BaseGUI

class htmlPy.BaseGUI (*title=u'Application'*, *width=800*, *height=600*, *x_pos=10*, *y_pos=10*, *maxi-mized=False*, *plugins=False*, *developer_mode=False*, *allow_overwrite=False*) Abstract GUI class for creating apps using PySide's Qt and HTML.

This class shouldn't be used directly. It serves as a parent to other GUI classes. Use htmlPy.AppGUI and htmlPy.WebAppGUI for developing applications.

Parameters args (No) – This is an abstract base class. It must not be instantiated.

app

PySide.QtGui.QApplication – The singleton Qt application object. This can be instantiated only once in the entire process.

window

PySide.QtGui.QMainWindow - The window being displayed in the app.

web_app

PySide.QtWebKit.QWebView – The web view widget which renders and displays HTML in the a window.

maximized

bool property – A boolean which describes whether the window is maximized or not. Can be set to True to maximize the window and set to False to restore.

width

int property – Width of the window in pixels. Set the value of this property in pixels to change the width.

height

int property – Height of the window in pixels. Set the value of this property in pixels to change the height.

x_pos

int property – The X-coordinate for top-left corner of the window in pixels. Set the value of this property in pixels to move the window horizontally.

y_pos

int property – The Y-coordinate for top-left corner of the window in pixels. Set the value of this property in pixels to move the window vertically.

title

unicode property – The title of the window. Set the value of this property to change the title.

plugins

bool property – A boolean flag which indicates whether plugins like flash are enabled or not. Set the value to True or False as required.

developer_mode

bool property – A boolean flag which indicated whether developer mode is active or not. The developer mode gives access to web inspector and other development tools and enables right-click on the webpage. Set the value to True or False as required.

auto_resize()

Resizes and relocates the window to previous state

If the window is not maximized, this function resizes it to the stored dimensions, moves it to the stored location.

evaluate_javascript(javascript_string)

Evaluates javascript in web page currently displayed

Parameters javascript_string (*str*) – The string of javascript code that has to be evaluated.

execute()

Executes the application without ending the process on its end.

DO NOT execute this process directly. Use only when htmlPy.BaseGUI.stop() is connected to some signal.

right_click_setting(value)

Javascript based setting for right click on the application.

This function changes the web page's behaviour on right click. Normal behaviour is to open a context menu. Enabling right click exhibits that behaviour. Right click is enabled by default. Disabling right click suppresses context menu for entire page. Enabling right click for only inputs suppresses context menu for all elements excepts inputs and textarea, which is the recommended option. The arguments provided should be from htmlPy.settings module as explained further.

```
Parameters value (int) - should be either htmlPy.settings.ENABLE (default)
  or htmlPy.settings.DISABLE or htmlPy.settings.INPUTS_ONLY (recom-
  mended)
```

start()

Starts the application.

This is not asynchronous. Starting the application will halt the further processes. DO NOT start outside the if _____mame___ == "___main___": conditional

stop()

Stops the application. Use only to bind with signals.

The Qt application does not have to be manually stopped. Also, after starting the application is stuck in the execution loop and will not go further until it is stopped. Calling this function manually is redundant. This function exits only to be binded with QSignals to stop the application when that signal is emitted.

text_selection_setting(value)

Javascript based setting for text selection in the application.

This function changes the web page's behaviour on selection of text. Normal behaviour is to highlight the selected text. Enabling text selection exhibits that behaviour. Text selection is enabled by default. Disabling text selection disallows user to select any text on the page except for inputs and disables the I-beam cursor for text selection. The arguments provided should be from htmlPy.settings module as explained further.

Parameters value (*int*) - should be either htmlPy.settings.ENABLE (default) or htmlPy.settings.DISABLE or

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