

```
// create a button which call myMacroWithoutArgs
button = webiopi().createMacroButton("macro", "Macro 1", "myMacroWithoutArgs");
                        content.append(button); // append button to content div
                       // create a button which call myMacroWithArgs with "1,2,3" as argument button = webiopi().createMacroButton("macro", "Macro 2", "myMacroWithArgs", [1,2,3]); content.append(button); // append button to content div
                        // the previous button will always call myMacroWithArgs with the same "1,2,3" argument
                        // you can also create a simple button with your own function button = webiopi().createButton("macro2", "Macro 3", callMacro); content.append(button); // append button to content div
                       // you can also create a button which calls a different function for mouse down and up events
button = webiopi().createButton("hold", "Hold", mousedown, mouseup);
content.append(button);
                       // Only for Chrome and Safari, create a slider that pulse out a 0-100% duty cycle ratio on GPIO 8 button = webiopi().createRatioSlider(8);
                        content.append(button);
                        // Only for Chrome and Safari, create a slider that pulse out a -45 to +45° angle on GPIO 9 button = webiopi().createAngleSlider(9);
                        content.append(button);
           }):
           function mousedown() {
    webiopi().setValue(7, 1);
           function mouseup() {
                        webiopi().setValue(7, 0);
           function outputSequence() {
    var sequence = "01010100110011001100101010" // S.O.S. morse code or whatever you want
                        // output sequence on gpio 7 with a 100ms period
webiopi() outputSequence(7, 100, sequence, sequenceCallback);
           function sequenceCallback(gpio, data) {
    alert("sequence on " + gpio + " finished with " + data);
           function callMacro() {
    var args = [1,2,3] // or whatever you want
    // call myMacroWithArgs(arg)
    webiopi().callMacro("myMacroWithArgs", args, macroCallback);
            function macroCallback(macro, args, data) {
                        alert(macro + " returned with " + data);
           </script>
           <style type="text/css">
                        button {
                                    display: block;
margin: 5px 5px 5px 5px;
width: 160px;
                                    height: 45px;
font-size: 24pt;
                                    font-weight: bold;
                                    color: black;
                        input[type="range"] {
                                    display: block;
width: 160px;
                                    height: 45px;
                        }
                        #gpio7.LOW {
                                    background-color: White;
                        #gpio7.HIGH {
                                    background-color: Red;
           </style>
</head>
<body>
           <div id="content" align="center"></div>
</body>
```

Python Server script : Extend WebIOPi server

WebIOPi server can also be used as a Python library you can import in your own script. Doing that, you will be able to add initialization and termination code and also to extend WebIOPi functionalities by adding new functions to the REST API.

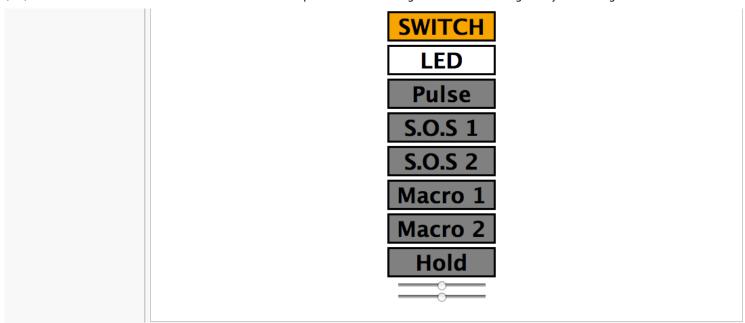
After unpacking WebIOPi, you'll find the following code in examples/custom/webiopi_custom.py, you can execute from two ways:

Foreground (debugging):

\$ sudo python webiopi_custom.py

• Background (production)

```
$ sudo ./webiopi custom.daemon start
# Imports
import webiopi
import time
# Retrieve GPIO lib
GPIO = webiopi.GPIO
# Macro definition part
# A custom macro which prints out the arg received and return OK
def myMacroWithArgs(arg1, arg2, arg3):
    print("myMacroWithArgs(%s, %s, %s)" % (arg1, arg2, arg3))
    return "OK"
# A custom macro without args which return nothing
def myMacroWithoutArgs():
    print("myMacroWithoutArgs()")
# Example loop which toggle GPIO 7 each 5 seconds
def loop():
       GPIO.output(7, not GPIO.input(7))
       time.sleep(5)
# Initialization part
# Setup GPIOs
GPIO.setFunction(1, GPIO.IN)
GPIO.setFunction(7, GPIO.OUT)
GPIO.setFunction(8, GPIO.PWM)
GPIO.setFunction(9, GPIO.PWM)
GPIO.output(7, GPIO.HIGH) GPIO.pulseRatio(8, 0.5) # init to 50% duty cycle ratio GPIO.pulseAngle(9, 0) # init to neutral
# Main server part
# Instantiate the server on the port 8000, it starts immediately in its own thread
server = webiopi.Server(port=8000, login="webiopi", password="raspberry")
# or webiopi.Server(port=8000, passwdfile="/etc/webiopi/passwd")
# Register the macros so you can call it with Javascript and/or REST API
server.addMacro(myMacroWithArgs)
server.addMacro(myMacroWithoutArgs)
# Loop execution part
# Run our loop until CTRL-C is pressed or SIGTERM received
webiopi.runLoop(loop)
# If no specific loop is needed and defined above, just use
# webiopi.runLoop()
# here instead
# Termination part
# Cleanly stop the server
server.stop()
 # Reset GPIO functions
# Keset GPIO TUNCTIONS
GPIO.setFunction(1, GPIO.IN)
GPIO.setFunction(7, GPIO.IN)
GPIO.setFunction(8, GPIO.IN)
GPIO.setFunction(9, GPIO.IN)
```



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