Day 2-1

Assignment:

Lab 02, Due Today

Homework 03, Due Tuesday (once written)

Today's Topics:

Analog In

PWM

Reading a Switch from a web page

• JSFIDDLE

03-2 IoT

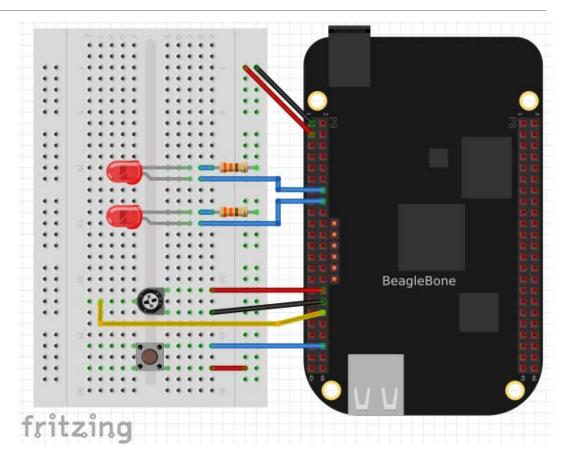
CONNECTING TO THE WEB

Connecting physical to the web

Now that

- The Bone is on the network and
- You know how to read switches and blink LEDs

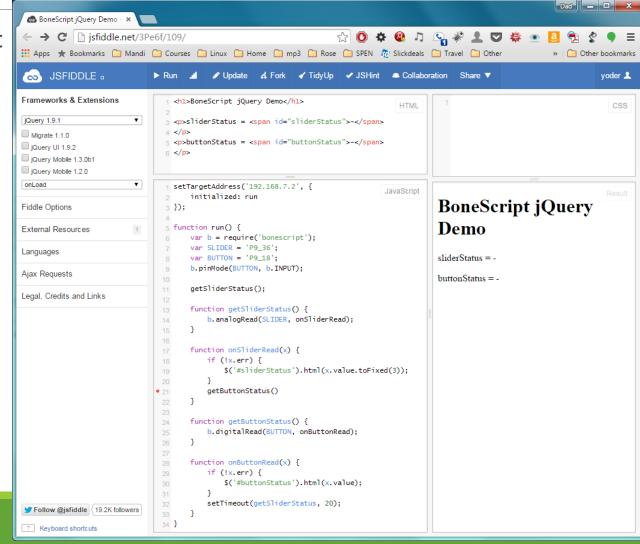
It's easy to have a web page read your Bone

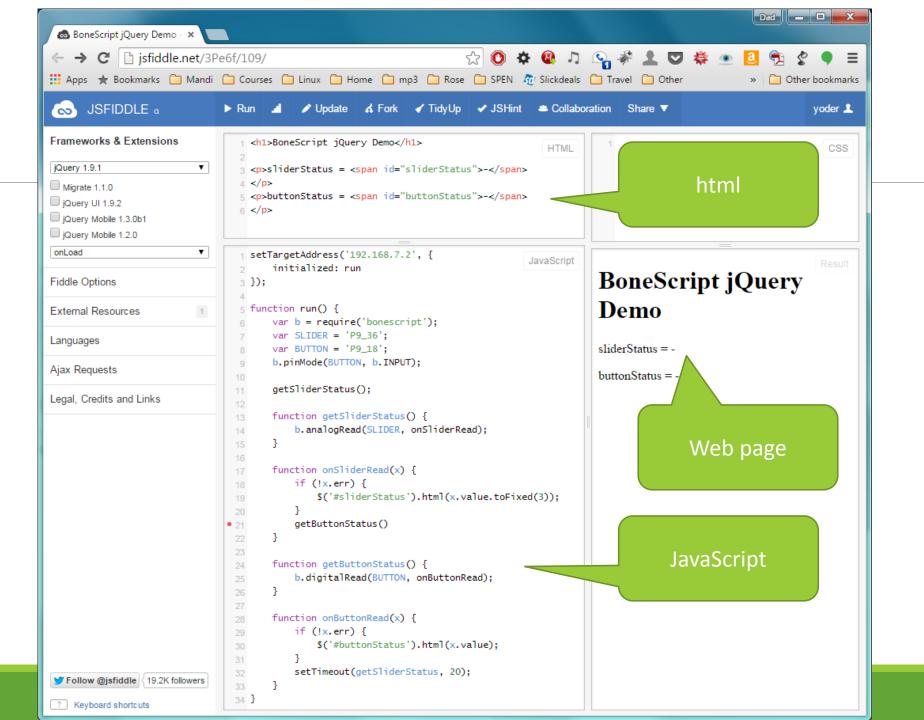


jsfiddle

Jsfiddle is a site for fiddling with your JavaScript

For example: http://jsfiddle.net/3Pe6f/109/





Result

BoneScript jQuery

Demo

html

jS

jS

```
getSliderStatus();
                                                 function getButtonStatus() {
                                                    b.digitalRead(BUTTON, onButtonRead);
function getSliderStatus() {
  b.analogRead(SLIDER, onSliderRead);
                                                 function onButtonRead(x) {
function onSliderRead(x) {
                                                    if (!x.err) {
   if (!x.err) {
                                                        $('#buttonStatus').html(x.value);
       $('#sliderStatus').html(x.value);
                                                    setTimeout(getSliderStatus, 200);
   getButtonStatus()
                                                } // End of run
```

Hit Run

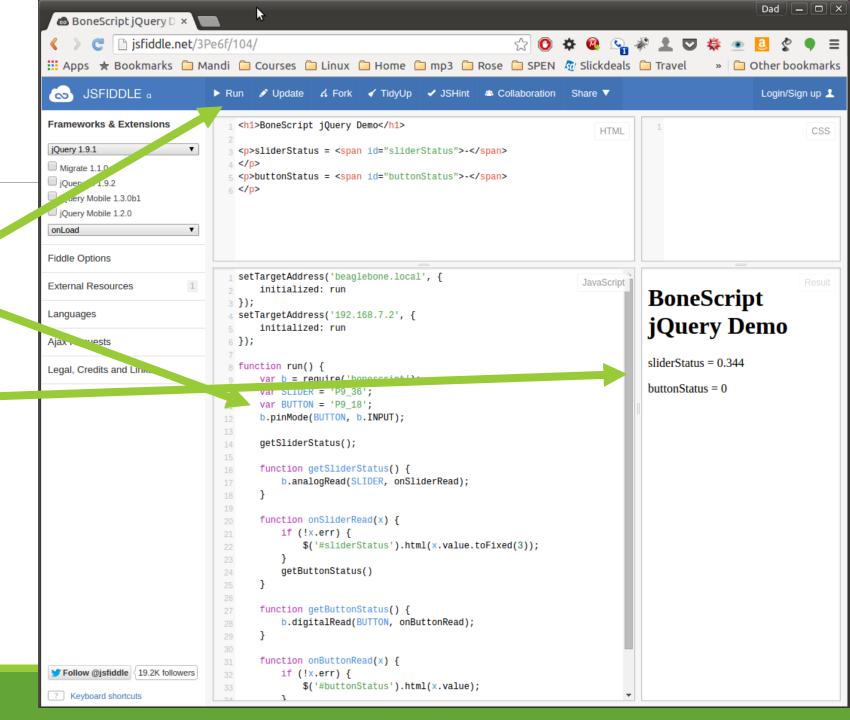
Change

- SLIDER and
- BUTTON

Then hit Run

- sliderStatus and
- buttonStatus

...will update



Move to Bone

You have to have an Internet connection to use JSFIDDLE

You can move your code to the Bone so the connection isn't needed.

Add the following to your html:

```
<h1>BoneScript jQuery Demo</h1>

     sliderStatus = <span id="sliderStatus">-</span>

buttonStatus = <span id="buttonStatus">-</span>
```

Put in jsfiddleDemo.html

```
<html>
  <head>
    <title>BoneScript jsfiddle Demo</tible>
    <script src="/static/jquery.js">
    <script src="/static/bonescript.js"></script>
    <script src="jsfiddleDemo.js"></script>
  </head>
  <body>
                                   Put is in isfiddleDemo.js
   <h1>BoneScript jQuery Demo</h1>
   sliderStatus = <span id="sliderStatus">-</span>
   buttonStatus = <span id="buttonStatus">-</span>
  </body>
</html>
```

These files are already on the Bone

Copy to Bone

Put jsfiddleDemo.js and jsfiddleDemo.html in /var/lib/cloud9

Browse to

http://192.168.7.2/jsfiddleDemo.html

Add a button

Optional: Add a button to the web page that controls an LED

<button id="led0" onClick='led(0)'/>LED 0</button>

