Welcome to "BeagleBone for Web Developers" This webinar will begin on the hour.



- We invite you to join in the Chat, Q&A and Polls during this live

> Polling

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Join the Chat, Q&A and Polls Here





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Training BeagleBoards with Jason Kridner

Webinar 04 -BeagleBone for Web Developers



Jason Kridner Co-founder and board member at BeagleBoard.org Foundation



Webinar Series



BeagleBone Webinar Series

Date	Time (UTC)	Topic
10 th May	11:00 (CT) / 17:00 (UK)	Introduction to BeagleBoard.org and BeagleBone
24 th May	11:00 (CT) / 17:00 (UK)	BeagleBone for Linux Users
6th June	11:00 (CT) / 17:00 (UK)	BeagleBone for Embedded Developers
21 th June	11:00 (CT) / 17:00 (UK)	BeagleBone for Web Developers
12 th July	11:00 (CT) / 17:00 (UK)	BeagleBone Blue for Robotics
26th July	11:00 (CT) / 17:00 (UK)	BeagleBone in the Classroom

Today's Topics

- Topics
 - Which web languages/packages have extensive libraries for BeagleBone?
 - How can I display a sensor reading on a webpage?
 - How can I control GPIO pins from a webpage?
 - Which IoT Platforms are recommended for BeagleBone?
 - How can I host a webpage on BeagleBone?
 - Considerations for internet security
 - Examples of use
- ABQ•
 - Posted Questions
 - Questions from chat



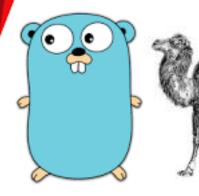
Available programming languages













JavaScript





python*















Which web languages/packages have extensive libraries for BeagleBone?







onoff beaglebone-io i2c-bus spi-device







CYLON.JS

BoneScript



Johnny-Five



IBM Bluemix

Microsoft Azure

Certified

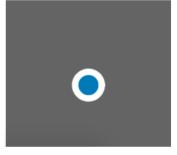


How can I display a sensor reading on a webpage?



BoneScript Processing.JS Demo

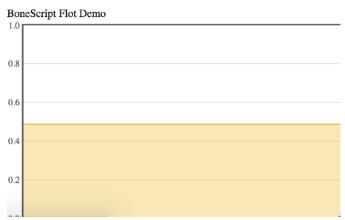


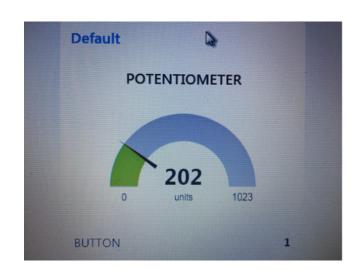


BoneScript jQuery Demo

sliderStatus = 0.488

buttonStatus = 1





How can I control GPIO pins from a webpage?



```
element 14.
COMMUNITY
```

```
setTargetAddress('192.168.7.2', {initialized: run});
▼ function run() {
     var b = require('bonescript');
     var LED = 'P2_3';
     var BUTTON = 'P2_33';
     b.pinMode(LED, b.OUTPUT);
     b.pinMode(BUTTON, b.INPUT);
     function getButtonStatus() {
         b.digitalRead(BUTTON, onButtonRead);
     function setLEDStatus(x) {
         b.digitalWrite(LED, x);
```

Which IoT platforms are recommended for BeagleBone?





Google Cloud Platform



Microsoft Azure

Certified

IBM Bluemix











Can I host a webpage on a Beaglebone?











Considerations for internet security

੍ਰੋ beagleboard.org® element₁₄

- Disable unused servers
 - BoneScript
 - Apache
 - Node-RED
 - ssh
- Secure used servers end-to-end
- Add firewalls and restricted users
- Don't rely on obscurity







Q&A



Questions from the Webinar Chat.

Next Webinar Dates



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Other Resources





www.beagleboard.org



www.element14.com/beagleboard