



NORCAL DEVELOPERS MEETUP

November 9th 2017

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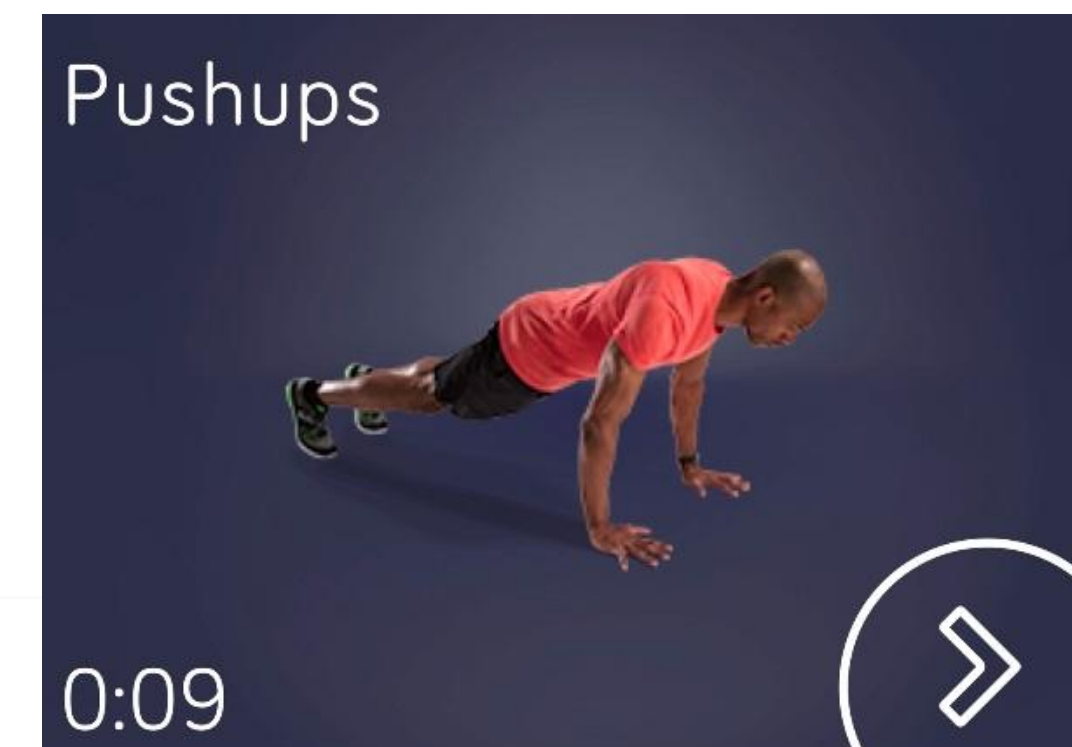
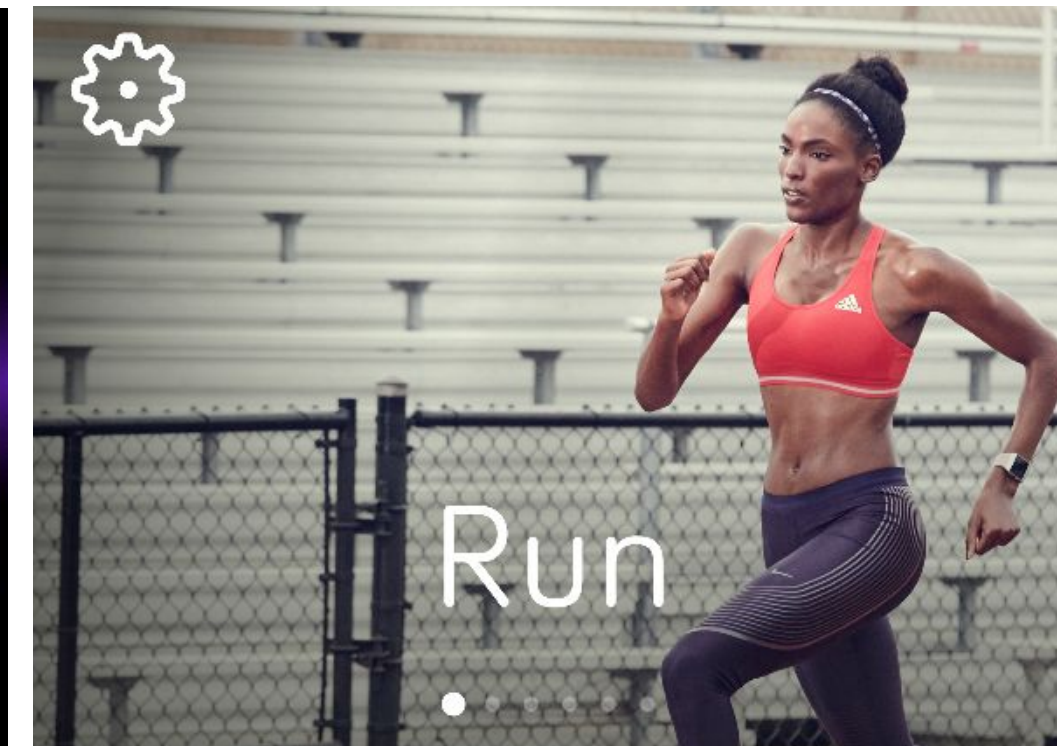
#made4fitbit

Fitbit SDK Overview

Frédéric Harper

App development

- Zero install – runs in a web browser
- Uses Web programming languages
- Easily create clock faces and apps



Fitbit Studio

fitbit studio

✓ Built

Download

iPhone

Ionic

Run

Screenshot

Help

app

index.js

common

utils.js

resources

cat.jpg

index.gui

styles.css

widgets.gui

package.json

```
1 import clock from "clock";
2 import document from "document";
3
4 import * as util from "../common/utils";
5
6 // Update the clock every minute
7 clock.granularity = "minutes";
8
9 // Get a handle on the <text> element
10 let myLabel = document.getElementById("myLabel");
11
12 // Update the <text> element with the current time
13 function updateClock() {
14   let today = new Date();
15   let hours = today.getHours();
16   let mins = util.zeroPad(today.getMinutes());
17
18   myLabel.text = `${hours}:${mins}`;
19 }
20
21 // Update the clock every tick event
22 clock.ontick = () => updateClock();
23
```

Console

Build Messages

[10:40:23 AM] App Closed [HOST]

[10:40:26 AM] App Started [HOST]

[10:40:51 AM] App Closed [HOST]

[10:40:57 AM] App Started [HOST]

[10:41:16 AM] App Closed [HOST]

[10:41:22 AM] App Started [HOST]

SVG

```
<svg>  
  <rect x="0" y="0" width="116" height="100%" fill="blue" />  
  <rect x="116" y="0" width="116" height="100%" fill="white" />  
  <rect x="232" y="0" width="116" height="100%" fill="red" />  
</svg>
```



CSS

```
.screen {  
  width: 100%;  
  height: 100%;  
  viewport-fill: lightblue;  
}  
  
.container {  
  width: 60%;  
  height: 60%;  
  x: 20%;  
  y: 20%;  
}
```

```
.inner {  
  width: 100%;  
  height: 100%;  
  x: 0;  
  y: 0;  
  fill: red;  
}
```

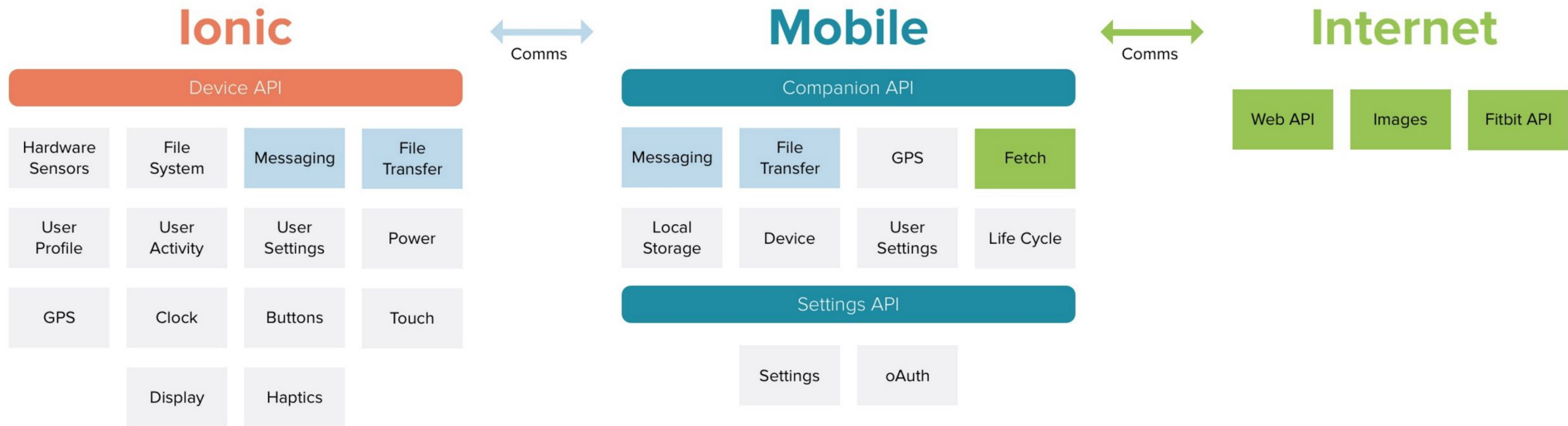


JavaScript

```
import document from "document";  
var demo = document.getElementById("demo");  
demo.text = "Hello World!";
```



Platform Architecture



Build A Clock Face Demo

dev.fitbit.com

[Getting Started](#)[Guides ▾](#)[Tutorials ▾](#)[Reference ▾](#)[Community ▾](#)[Tools ▾](#)

You'll **fit** in here

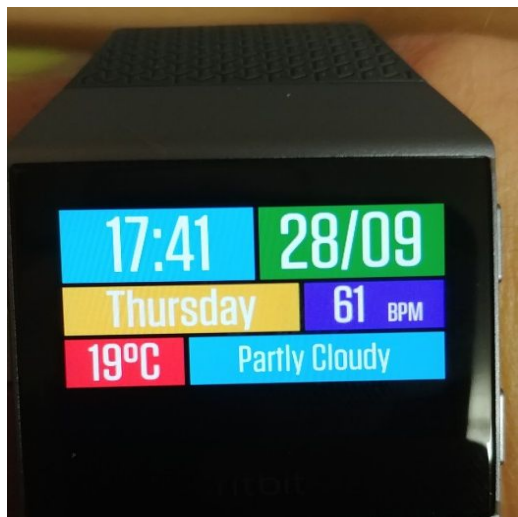
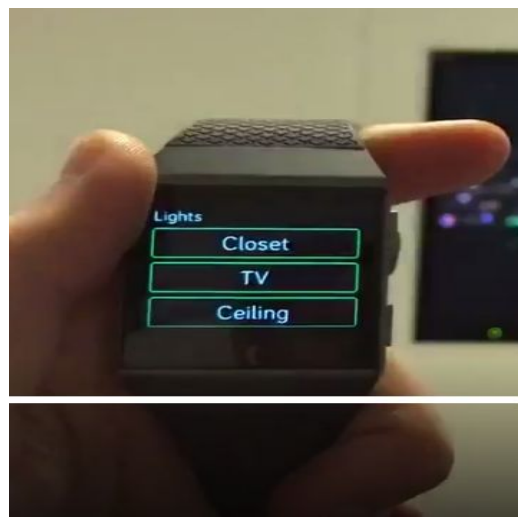
Using JavaScript, CSS, and SVG, developers now have a fast, easy way to build apps and clock faces for Fitbit OS.

[LEARN MORE](#)

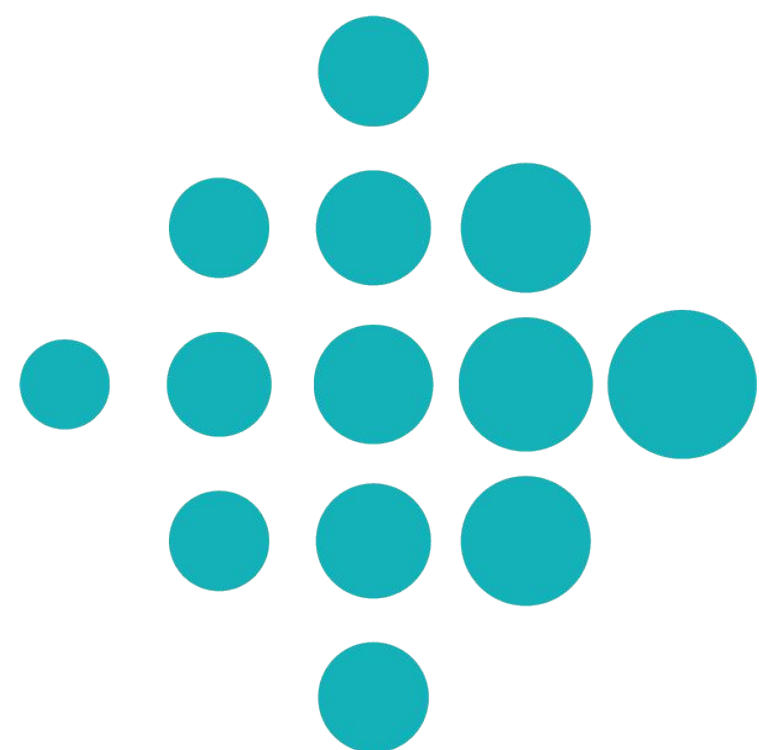
Clockface Development Station



Be Creative



Questions?



THANK YOU