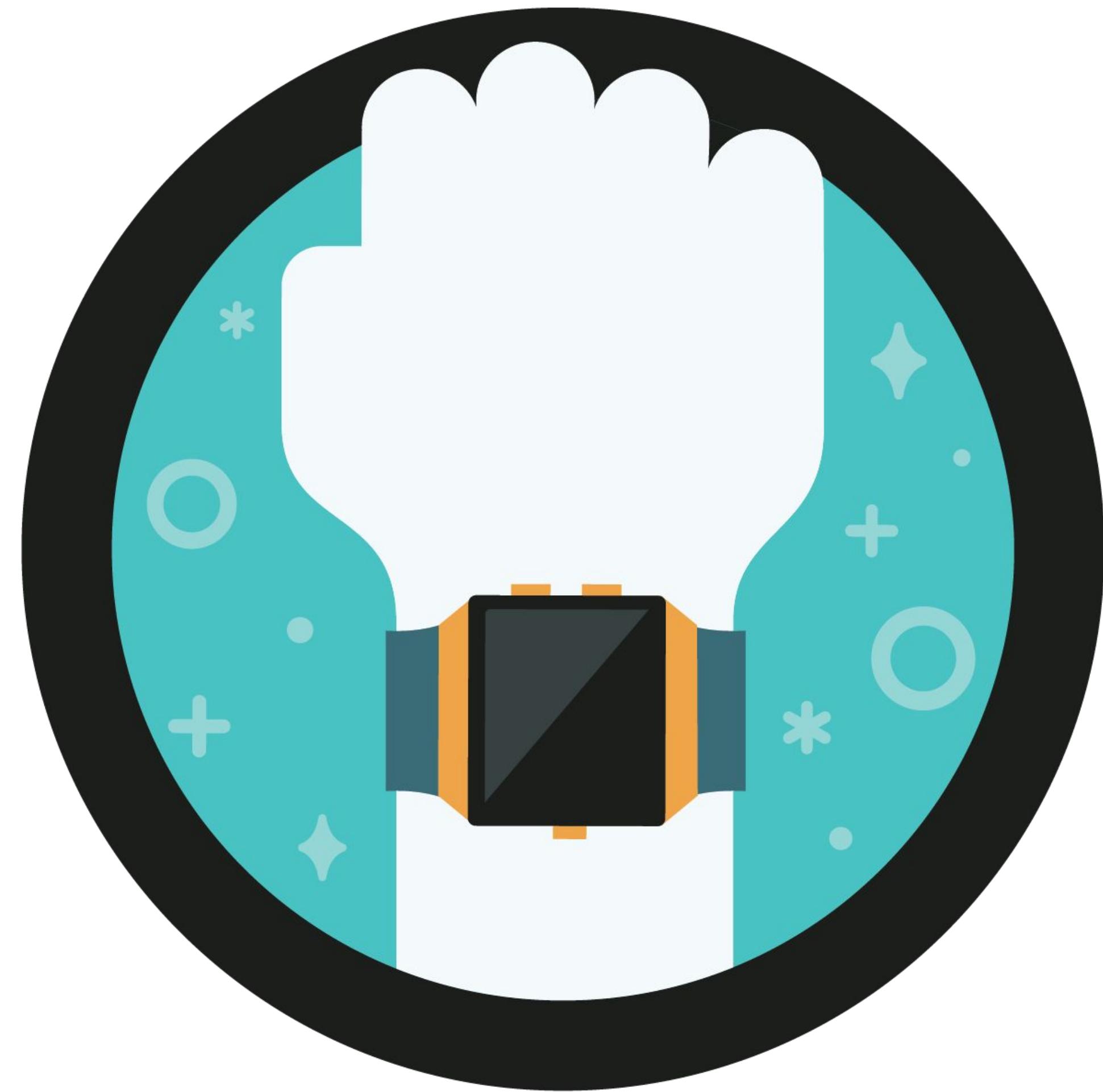


# NORCAL DEVELOPERS MEETUP

November 9th 2017

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 fitbit®



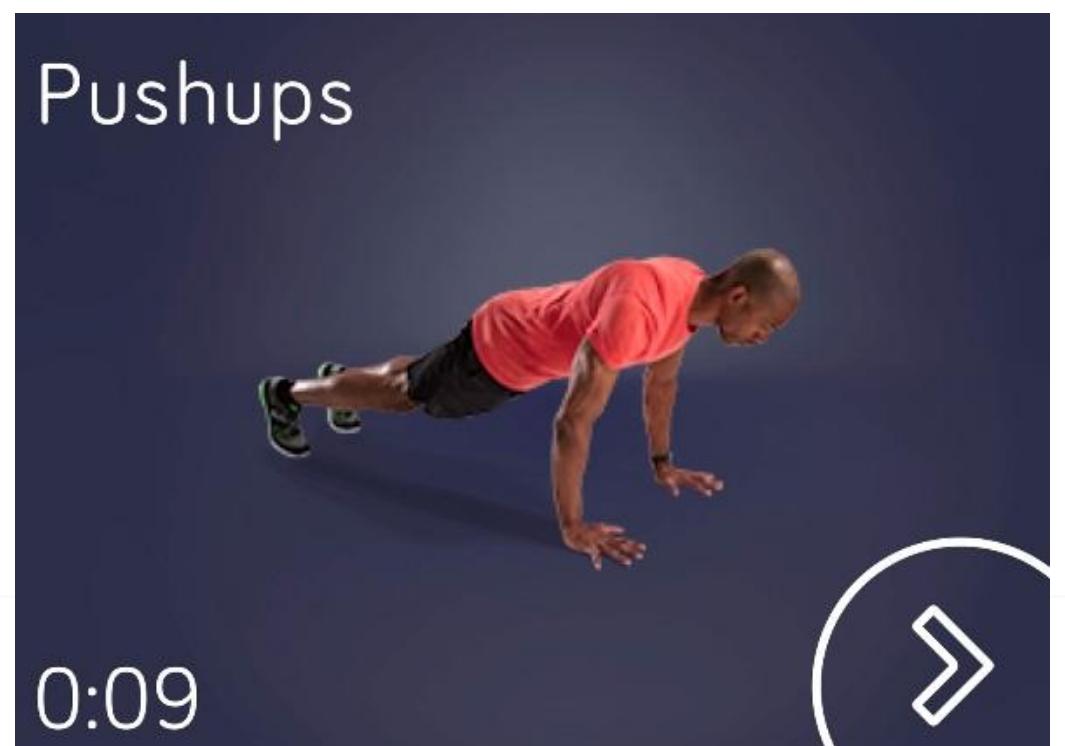
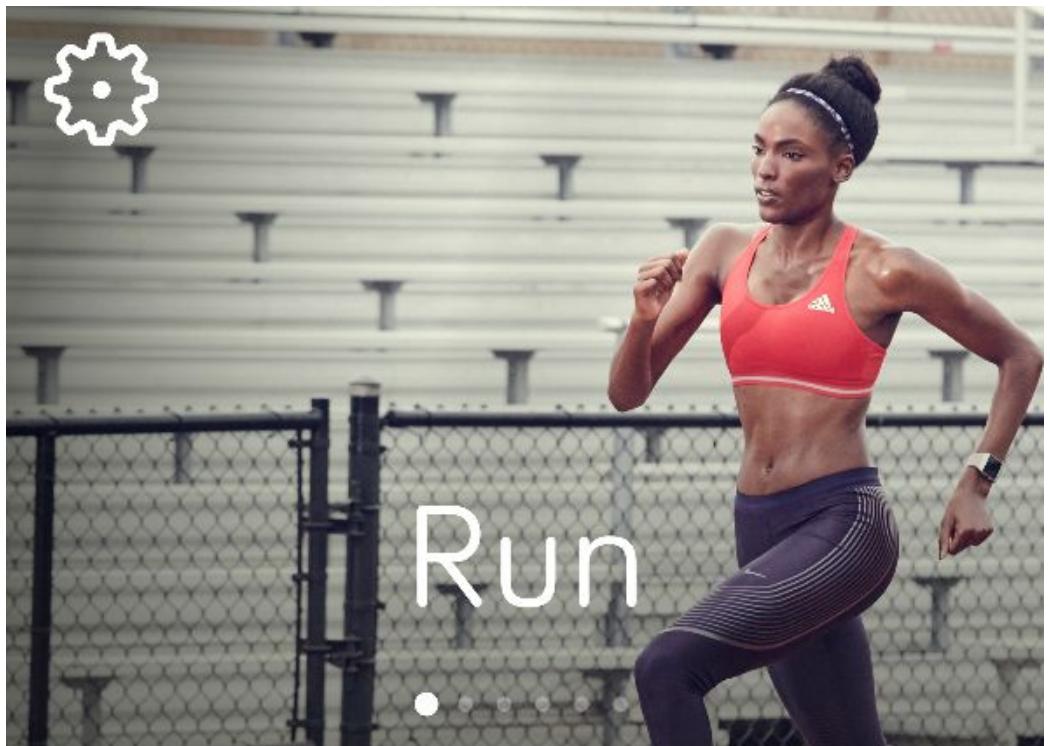
#made4fitbit

# Fitbit SDK Overview

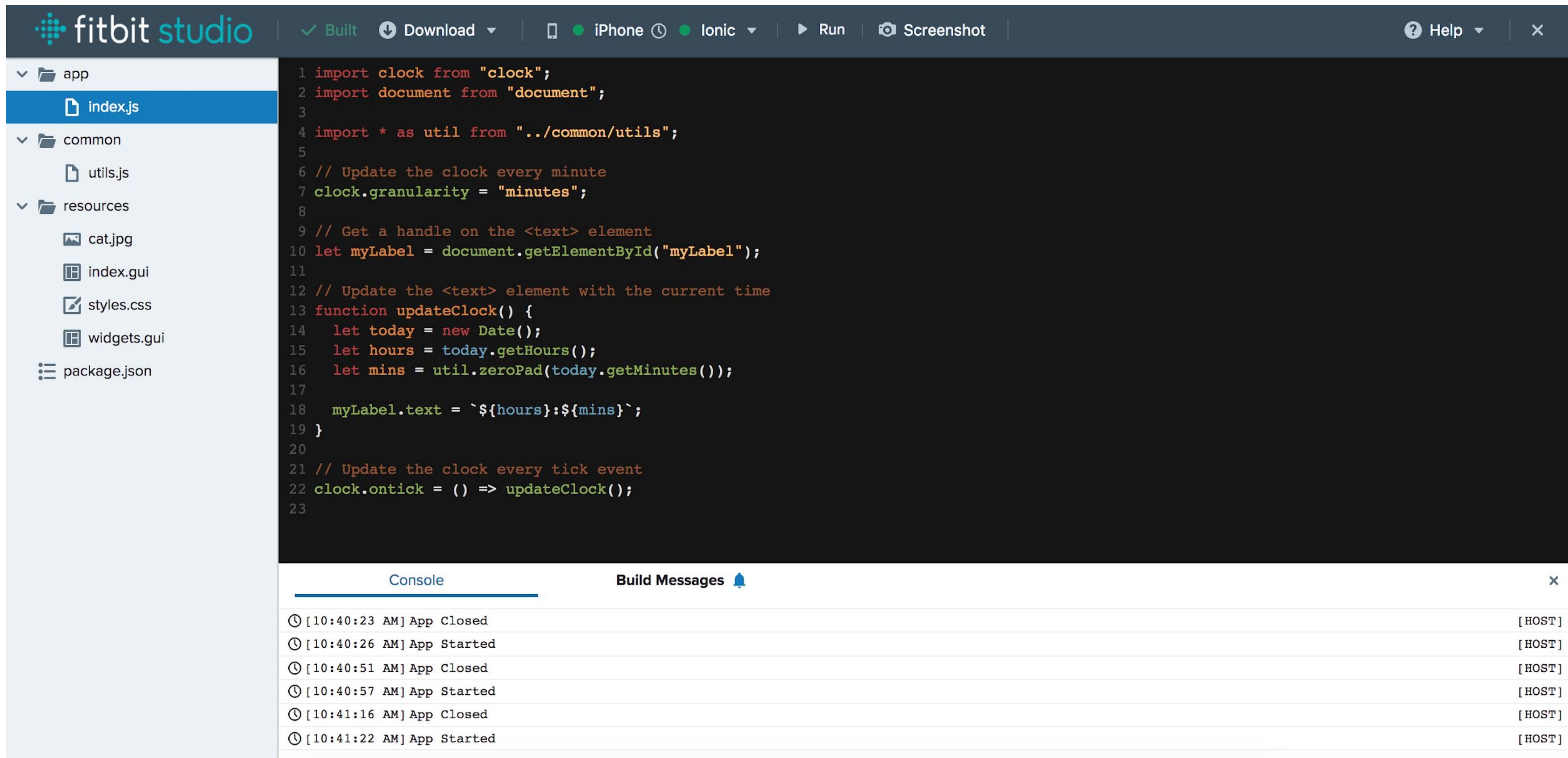
Frédéric Harper

# App development

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



# Fitbit Studio



The screenshot shows the Fitbit Studio interface. The top navigation bar includes options like 'Built' (with a checkmark), 'Download' (with a download icon), device selection (iPhone with a clock icon and Ionic with a gear icon), 'Run', 'Screenshot', 'Help', and a close button.

The left sidebar displays the project file structure:

- app (selected folder)
  - index.js
- common
  - utils.js
- resources
  - cat.jpg
  - index.gui
  - styles.css
  - wIDGETS.GUI
- package.json

The main code editor area shows the content of index.js: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

At the bottom, there are tabs for 'Console' (selected) and 'Build Messages' (with a bell icon). The 'Build Messages' tab shows the following log entries:

Time	Message	Host
[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;  
}
```

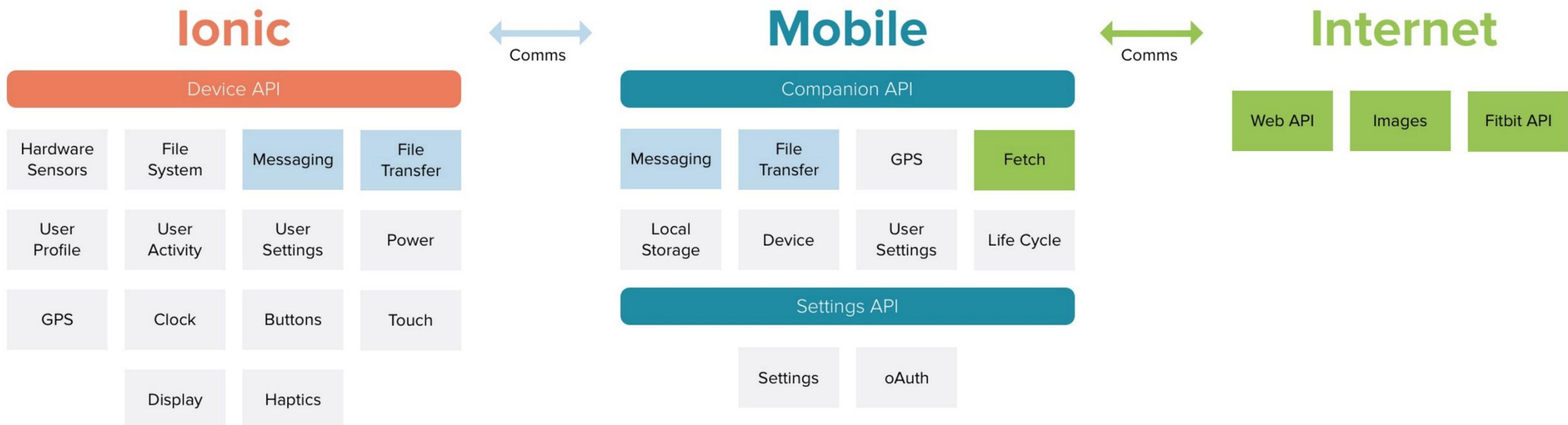


# JavaScript

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



# Platform Architecture



# **Build A Clock Face**

## **Demo**



## You'll **fit** in here

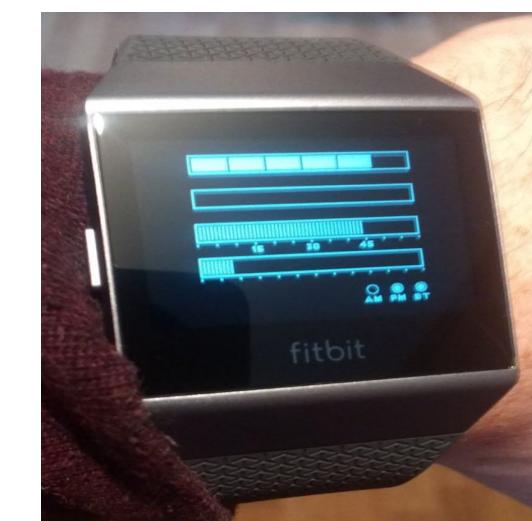
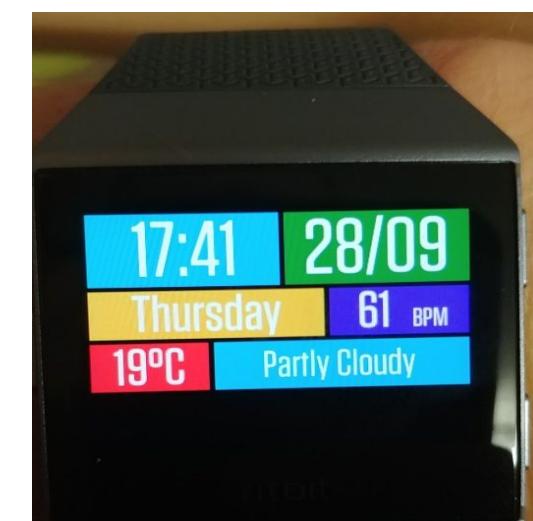
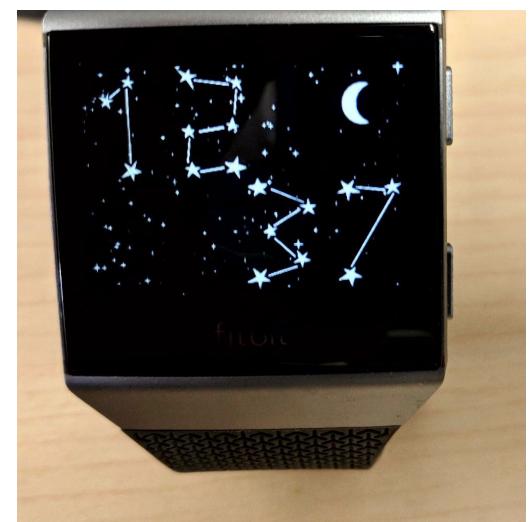
Using JavaScript, CSS, and SVG, developers now have a fast, easy way to build apps and clock faces for Fitbit OS.

[LEARN MORE](#)

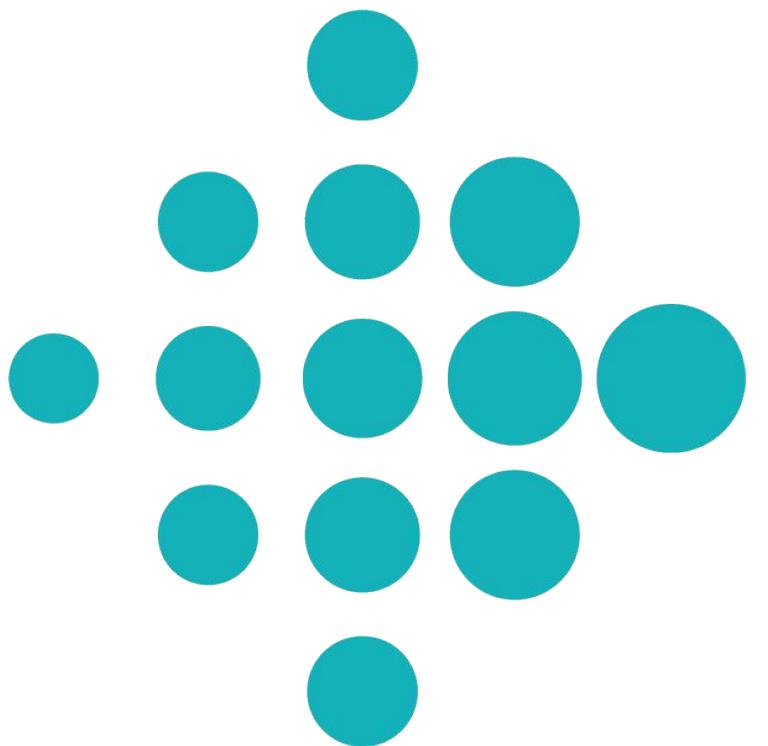
# Clockface Development Station



# Be Creative



# Questions?



# THANK YOU