

Welcome to the 1st

Fitbit developers Melbourne

meetup

#made4fitbit



Fitbit SDK & Web API Overview





#made4fitbit

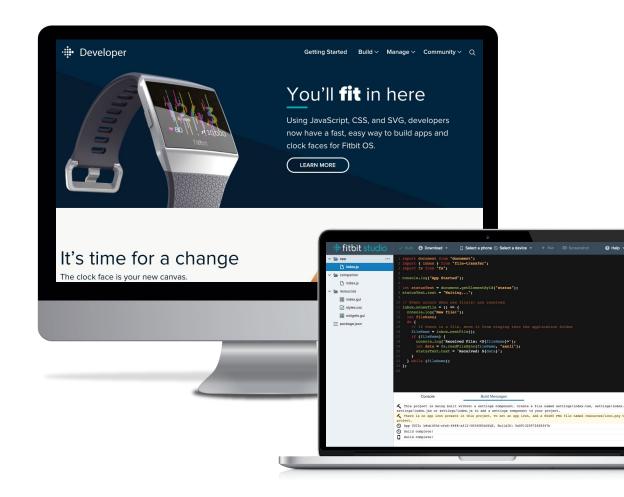
Fitbit OS SDK





Developer Platform

- Standards based SDK with
 JavaScript, SVG & CSS
- Easily create apps from anywhere with Fitbit Studio
- Simulator available on macOS & Windows

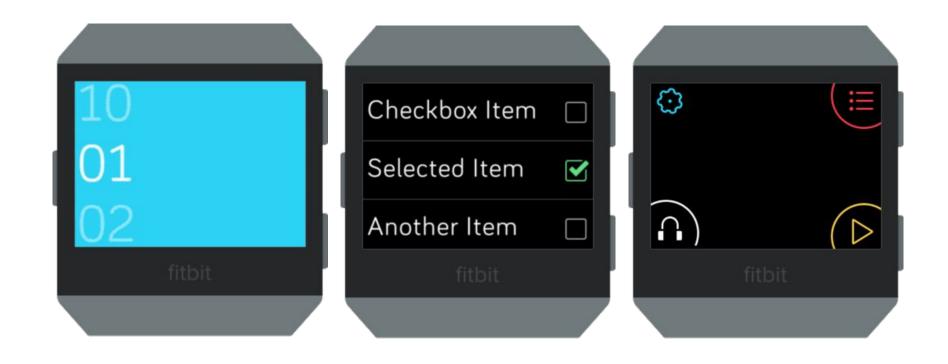


SVG



UI components

Tumbler, Checkbox Tile List, Combo buttons...



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: ∅;
    fill: red;
```

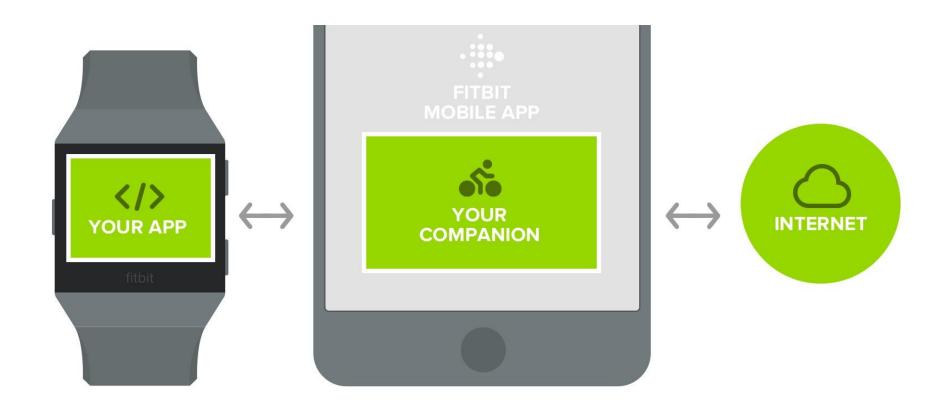


JavaScript

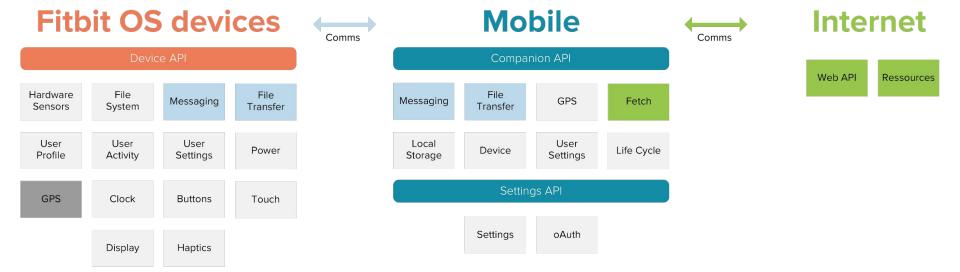
```
import document from "document";
var demo = document.getElementById("demo");
demo.text = "Demo Text";
```



Platform Architecture

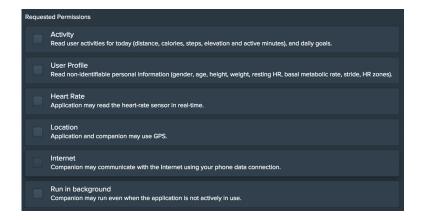


Platform Architecture



Permissions

- Developers request permissions
- Users accept requests on install



Settings

- Uses React JSX
- Make clock faces and apps configurable
- Prebuilt components for easy setup
- Persist data in settingsStorage
- Simple OAuth





Multiple Devices Resource Files

```
//Resources like CSS, images or GUI files
/resources/filename~SCREEN-RESOLUTION.ext
//Specific
/resources/styles~300x300.css
/resources/styles~348x250.css
//Fallback
/resources/styles.css
```

Multiple Devices

```
//Device API
import { me as device } from "device";

//Companion API
import { device } from "peer";

//Backward compatibility
if (!device.screen) device.screen = { width: 348, height: 250 };
```

Gallery App Manager (GAM)

- Our "App Store"
- Public & private apps
- Review process for public apps

Gallery App Manager

O Logged In

Cliff Star Clockface

UUID **deb27b30-a0ad-4195-8448-7d055f5d5a9c**Link https://gam.fitbit.com/gallery/clock/deb27b30-...

Published

Your Clockface is available to users in the Fitbit App Gallery.

Localized details

English ••

Description	
A simple clock with a cinematic effect.	
Features:	
- Customise the color of the clock text	
9	
Customise the color of the clock textPersistent settings12h/24h based on Fitbit account settings	
This uses a great photo from Unsplash.com by And Preble.	drew

Screenshots

Screenshots are shown at the top of your app's gallery page.

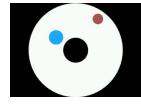


build a clock face demo

























AT 105









November 2017

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

10 11





@ 0:50



18 Nov 2017 100%

Sat

Goodmayes

Drizzle 8°C













Fitbit Web API

REST APIs

- Activity
- Body & Weight
- Devices
- Food Logging
- Friends

- Heart Rate
- Sleep
- Subscriptions
- User

JSON

```
"Activities":
         "activityId":51007,
         "activityParentId":90019,
         "Calories":230,
         "Description": "7mph",
         "Distance":2.04
         "Duration":1097053,
         "hasStartTime":true,
         "isFavorite":true,
         . . .
```

did I sleep enough? demo

Next steps

be part of the community

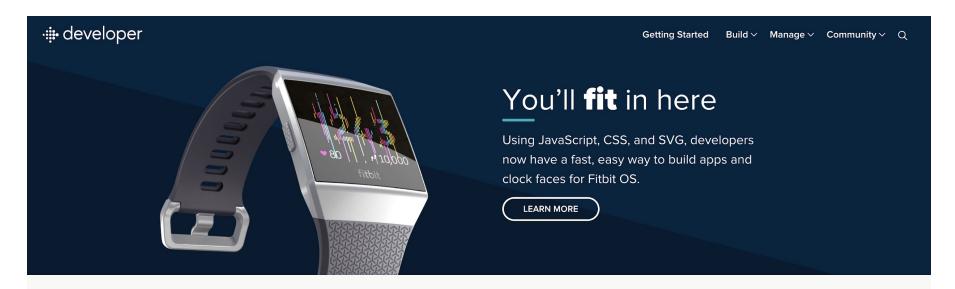
- 1. Join the Discord community, follow us on Twitter...
- 2. Create a free Fitbit account
- 3. Use a Fitbit OS device, or use the simulator
- 4. Create local apps and clock faces
- 5. Publish your masterpiece in GAM
- 6. Share your hard work on Twitter using #made4fitbit



be a local ambassador



dev.fitbit.com



It's time for a change

The clock face is your new canvas.

LEARN MORE



Have fun!

