Pebble Smartwatch

Watchface

What is the Pebble smartwatch?

- Tech start up initially funded on kickstarter in 2012
- Considered the first smartwatch manufacturer
- Acquired by fitbit in late 2016, fitbit is continuing to support pebble software but not pebble hardware
- Pebble OS is expected to be featured in future fitbit products

2012

2013

2014

2015

2016

Two Methods For Creating Pebble OS Watchfaces:

C:

Advantages:

- Support for all generations of pebble
- Requires less pebble libraries

Disadvantages:

- Longer code
- Less intuitive syntax (in my opinion)
- Much more complicated to implement custom graphics

JavaScript:

Advantages:

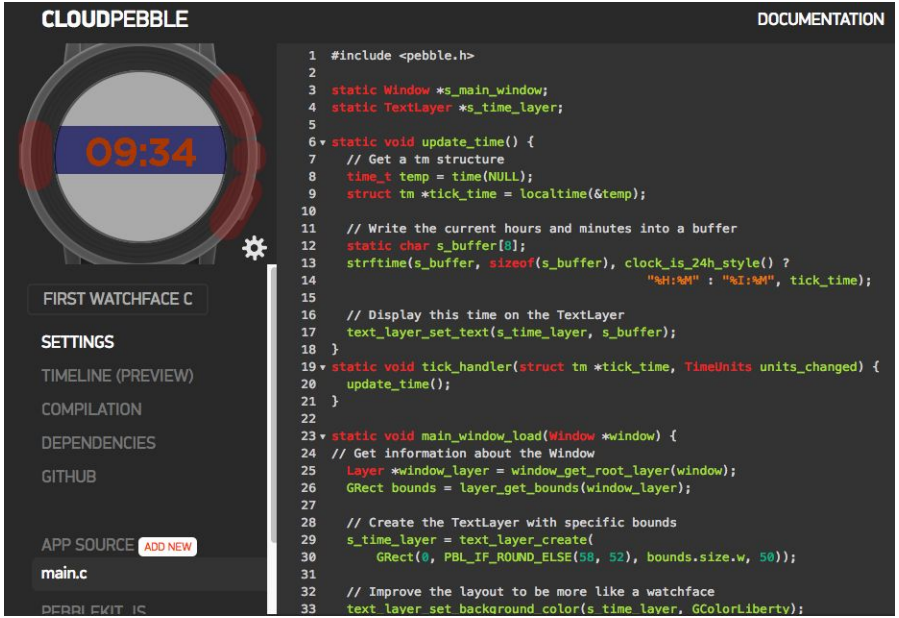
- Easier and newer
- Works really well with new watches
- Relatively simple to implement vector graphics

Disadvantages:

- Not compatible with 1st generation watches
- Lots of external libraries
- Some features are still considered “beta”

C

- I created a digital watchface using C
- Text is easier than implementing graphics in C
- Watchfaces in C use window objects that refresh with a set frequency, typically every minute



JavaScript

- I created an “analog” watch face with JavaScript, because it is simple to implement basic graphics
- Using an external library, events are created to change the position of the watch’s hands every time the the time changes (every second, minute, or hour)