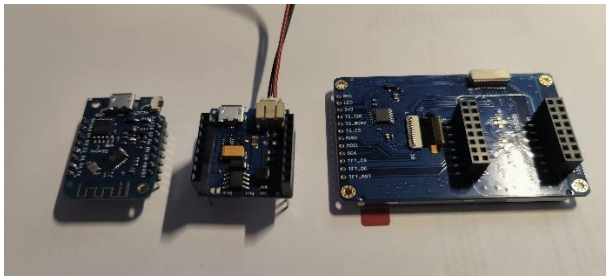
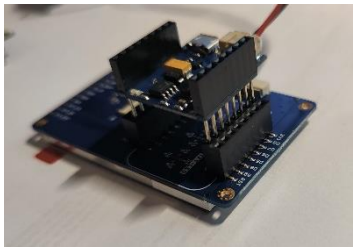
How to put this thing together….

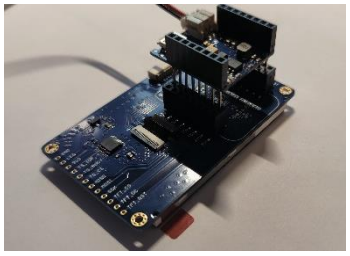
The picture below shows the three main components (everything apart from the battery and the battery holder). On the left you see the actual board containing the ESP8266. In the middle you see the charging shield. This part is only responsible for charging the battery via micro-usb. On the right you see the TFT shield. For assembly, it is handy to put the devices on the table in the way they are shown here.



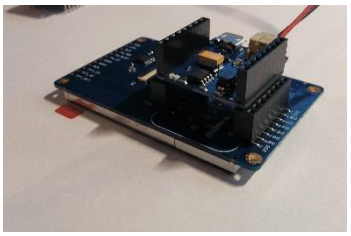
Phase 1: We start with connecting the charging shield with the TFT shield. You can put the charging shield on the TFT shield in two ways. There is only one correct way. So look at the pictures to see how to connect them. Be careful because the pins are quite sensitive. Eventually you should be able to push through to fix the shield on the TFT shield.



Step 1 Align the pins with the holes of TFT shield

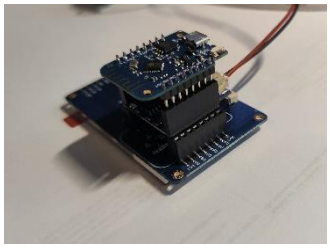


Step 2 Check if the pins are correctly aligned left and right

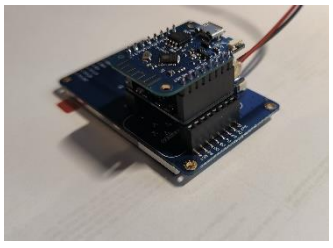


Step 3 Press a little bit harder until the shield is firmly attached to the TFT

Phase 2: Next, we put the ESP board on the charging shield in the same way as with the charging shield and the TFT.



Step 4 Put the ESP board on the charging shield



Step 5 Also here press a little bit harder to connect the ESP board on the charging shield

Phase 3: And then we can finally insert the battery and look at the result 😊. For your information: The result is on the other side of the TFT shield… You should remove the protective foil as well.

Step 6 Finally you can insert the battery. Red is + and black is -

When running, you see four options on the (touch) screen. The top two you just have to test to see what it is. The one on the bottom left was used by me during development (uploading new firmware via Wifi). The one on the bottom right does just nothing (create your own thing for that one!).

The easiest way to shutdown the device is removing the battery. There is no “off” button or switch. You can restart the device by pushing the really tine micro switch on the ESP board.

Source code that is running on the board can be found here: https://github.com/fdkuiper/esp-gift

Warning: The battery used is a Li-ion battery. Those are dangerous if you short circuit them. So please do not do that!!!!

Enjoy!!!!!