
BeeWatch Documentation

Release unreleased

Digital

Mar 26, 2017

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BeeWatch aims to help beekeepers understand their beehive. Easily answer questions like:

- How much honey did my bees produce?
- What information do you want to know about your bees? *Tell Me!*

Note: This project is very experimental. I do not advise you to use it yet. The documentation is incomplete, so don't wonder about strange stuff.

Warning: You loose the game.

Motivation for this project

This project started when my father asked me to build a weighing scale for his beehive. I agreed and this is what I made so far.

Free Software

My goal is to produce free software. 'Free' as in freedom or libre. That means the software I write respects your privacy and rights. Sounds great, but what does that mean? Let's take a look at the definition of free software by [gnu.org](https://www.gnu.org/philosophy/free-sw.html) - [free software](https://www.gnu.org/philosophy/free-sw.html) :

A program is free software if the program's users have the four essential freedoms:

0. The freedom to run the program as you wish, for any purpose (freedom 0).
1. The freedom to study how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.
2. The freedom to redistribute copies so you can help your neighbor (freedom 2).
3. The freedom to distribute copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

So basically you are free to run, copy, distribute, study, change and improve my software.

Installation Guide for BeeWatch

You can install the module, build the documentation or do both (advised ;P). If you install the module after you have built the documentation, the documentation is copied to the folder of the installed module.

Install BeeWatch

To install BeeWatch run `./setup.py install` in BeeWatch-X.X. For more options run `./setup.py help` or see [Distributing on python.org](#)

Build the documentation

This project uses Sphinx for documentation generation. Sphinx can create the documentation in a variety of formats, eg html, pdf, epub an more. Run `make help` to get a list of supported file formats. Let's say you chose html, so you run `make html`. This creates the documentation inside 'build/docs/<format>'. The entry point for reading the html version of the docs is *build/docs/html/index.html*.

Todo

add requirements installation help

CHAPTER 3

Getting Started

yadda

Getting Started subheading

subyadda

CHAPTER 4

HowTo Configuration

This page explains how to configure BeeWatch.

Program Design

This page explains the structure of BeeWatch.

Note: This is how i want it to be, not how it is right now. In the current state the core and the server are not separated, the core opens a public server.

Core

The Core handles gpio stuff and analyses data. The data can be accessed through a file socket opened by the Core.

Server

The Server connects to the file socket of the core and serves has extensions for different types of (public) apis. authentication will be implemented using ssl, username/password or both.

Client

The Client is the front end of BeeWatch. Right now it is a program but I plan a web interface client.

This is the documentation of the code.s

Gui Client

Server

Template text.

Gpio Api

Template text.

CHAPTER 7

Tell Me!

This page explains how to tell me stuff.

CHAPTER 8

Indices and tables

- `genindex`
- `modindex`
- `search`

CHAPTER 9

Indices and tables

- `genindex`
- `modindex`
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