

# Bot Documentation

[Telegram](#) Bot build for the *BeuthBot*-Project, with easy extensibility and customization in mind.

## Table of content

1. [Bot Documentation](#)
2. [Table Of Content](#)
3. [Getting Started](#)
  - a. [Prerequisites](#)
  - b. [Installing](#)
4. [Overview](#)
5. [Structure](#)
6. [Functionalities](#)
  - a. [User Requests](#)
  - b. [Commands](#)
  - c. [Functions](#)
  - d. [BotFather](#)
7. [Further Development](#)
8. [Further Reading](#)
9. [Prerequisites](#)
10. [Versioning](#)
11. [Authors](#)

## Getting Started

These instructions will get you a copy of the project up and running on your local machine for development and testing purposes.

### Prerequisites

You will need a current version of [node & npm](#).

### Installing

After cloning the repository, install the dependencies. You can then run the project.

```
# install dependencies  
> npm install
```

```
# serve at localhost:8000  
> npm start
```

## Overview

The bot is basically a *Node-Express-Backend*. Incoming requests are checked and specifically handled.

## Structure

The bot is separated into two files. `index.js` contains the fundamental logic. The bot get created with its token and waits for incoming events. For example an incoming message. The bot then calls a handler function.

These handlers can be found in the second file, `commands.js`. This file contains the available commands as an Object. Furthermore does ist contain functions to determine if a message contains a commands and to answer the several requests a user can make.

## Functionalities

### User Requests

The bot supports three different kinds of user requests:

- **Message:** A user sends a message to the bot. We then check if the message contains a command. Commands are declared with a prefixed '/' in *Telegram*.
- **Callback Queries:** The bot can answer with a question, providing the user a simple interface, using a button matrix. When the user clicks on of these buttons we get a *callback query*.
- **Inline Queries:** Users can call our bot from within another chat by prefixing the botname with an '@'. The user can then send a text to the bot, which results in an inline query. The result that the bot gives back is inserted in the chat, where the user called the bot from.

### Commands

The `commands.js`-file contains an `commands`-object. Every entry of this object is a supported command. The Key is always the command string, prefixed with '/', eg: '/help'. The value for these keys is an object containing an description, and options object and the reference to the function that renders the answer for the specific command.

```
const commands = {
  '/help': {
    answer: renderHelpString,
    description: 'Get a helpful list of all available commands and
functionalities',
    options: {
      parse_mode: 'Markdown'
    }
  },
  '/date': {
```



## BotFather

The [BotFather](<https://core.telegram.org/bots>) allows so configure our bot. You can just write the `_BotFather_` with Telegram and the bot will guide you through everything. The `_BotFather_` enables you among others to change the profile picture, description and about text of your bot.

Further you can register the commands and inline queries your bot supports. This allows a cleaner user experience since the bot will then suggest commands and inline queries while the user types. So absolutely do register them!

The necessary commands are:

- ``/setcommands`` - ``/setinline``

## Further Development

New commands can simply added to the ``commands``-object but have to follow the presented structure under [Commands](`#commands`).

## Further Reading

- [Telegram Bot API](<https://core.telegram.org/bots/api>)

## Built With

- [Node.js](<https://nodejs.org/en/>) - [Express.js](<https://expressjs.com/>) - [Node-Telegram-Bot-API](<https://github.com/yagop/node-telegram-bot-api>)

## Versioning

We use [SemVer](<http://semver.org/>) for versioning. For the versions available, see the [tags on this repository](<https://github.com/T0biWan/heftigwolf-bot/tags>).

## Authors

- **Tobias Klatt** - `_Initial work_` - [GitHub](<https://github.com/T0biWan/>)

See also the list of [contributors](<https://github.com/T0biWan/heftigwolf-bot/graphs/contributors>) who participated in this project.

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