

Bot Documentation

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

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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.

```
bash # 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 it contain functions to determine if a message contains a command 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 one 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 a description, an options object and the reference to the function that renders the answer for the specific command.

```
```js const commands = {
```

```
 '/help': {
 answer: renderHelpString,
 description: 'Get a helpful list of all available commands and
functionalities',
 options: {
 parse_mode: 'Markdown'
 }
 },
 '/date': {
 answer: (message => 'What date format do you prefer?'),
 description: 'Get the current timestamp in a chooseable format',
 options: {
```



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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