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# **Luftqualität Deutschland Documentation**

***Release 1.0.0***

**OK Lab Leipzig**

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Eine übersichtliche Darstellung der Messwerte aller sächsischen Messstationen zur Luftqualität. Zu jeder Messstation werden die Daten detailliert als Tabelle und Diagramm dargestellt.

Contents:



# CHAPTER 1

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## Installation

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### NEW alternative setup with Vagrant

Just clone the repository and start the virtual machine with the help of [Vagrant](#):

```
$ vagrant up
```

When it's finished you may enter the machine and the Python environment with the following commands:

```
$ vagrant ssh
$ workon luftverschmutzung_sachsen
$ cd /vagrant
```

All the upstream code is persistently mounted to `/vagrant`.

To start the Django http server, just run:

```
$ make runserver HOST=0.0.0.0
```

### Manual way

It's recommend to install [virtualenv](#), it helps to separate the build artefacts from the rest of your system. On Debian based Linux distributions, it may look like this:

```
$ apt-get update && apt-get install -y --force-yes --no-install-recommends python-
↳virtualenv virtualenvwrapper
```

Create the the virtualenv and enter it:

```
$ mkvirtualenv luftverschmutzung_sachsen
```

To exit the environment you enter `deactivate` and to re-enter it work on `luftverschmutzung_sachsen`.

Install the packages for development:

```
$ make install-dev
```

There might be a stumbling block regarding the auth configuration in PostgreSQL. In my experiments with Ubuntu 14.04 LTS I found out the “peers” setting to be default for local access of “all users”, except this doesn’t work with this Django App. You need a user/pass auth regime aka md5 .

An example configuration in `/etc/postgresql/<version>/main/pg_hba.conf` might be:

```
local    all             all                                md5
```

Then create the new PostgreSQL user and database, depends heavily on your PostgreSQL installation!

```
$ (sudo -u postgres) make create-db
```

Now create the database tables:

```
$ make migrate
```

And start the development webserver:

```
$ make runserver
```

To see the other targets available in the `Makefile` simply run:

```
$ make
```



## CHAPTER 2

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### Deployment

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Describe how to deploy your project here.



## CHAPTER 3

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### Indices and tables

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