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# **django-wibses Documentation**

***Release 0.1***

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<b>1</b>	<b>Technologies used</b>	<b>3</b>
<b>2</b>	<b>Contents</b>	<b>5</b>
2.1	Installation guide . . . . .	5
2.2	Project setup guide - for Developers . . . . .	5
2.3	Contributing guidelines . . . . .	7
2.4	Developer's Corner - known work-arounds . . . . .	9
<b>3</b>	<b>Authors</b>	<b>11</b>
<b>4</b>	<b>Indices and tables</b>	<b>13</b>



django-wibses is a webapp simplifying creation and management of *semantic scripts* (it's basically a complex, structured JSON).

It comprises of a RESTful backend written in Django, which utilizes [pydic](#) and a rich-client frontend written in AngularJS.

django-wibses can be used as a standard django application, additionally it provides lightweight command-line execution wrapper.

btw: Wibses stands for **W**eb **I**nterface for **B**uilding **S**Emantic **S**cripts.



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## Technologies used

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- Django 1.6, Python 2.7
- AngularJS 1.2.X, Angular-UI, CoffeeScript
- Yeoman, Grunt





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## Contents

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## 2.1 Installation guide

### 2.1.1 2 available run modes

#### 1 - Command line

*Not available yet*

starts a lightweight web server

#### 2 - Django application

TODO vucalur: write about setting up a sample dajngo site

1. Run the script, which assembles the frontend and copies static resources to appropriate locations in django project:

```
$ cd django-wibses
$ ./prepare_dist.sh
```

2. Start the django server.

The application, fully hosted by sole django server, will be available under <http://localhost:8000/wibses> (Change the port number if you don't use django's default 8000)

## 2.2 Project setup guide - for Developers

### 2.2.1 Prerequisites

- Project is developed under GNU/Linux. All used tools work also on MacOS and Windows.
- Project is developed under PyCharm 3.X. ( **Make sure you are using JetBrains Codestyle to indent your code.** )
- Here are packages for \*buntu 13.10 64 bit. Install their equivalents on the OS of your choice:
  - **General:** bash-completion git ubuntu-restricted-extras meld
  - **Database:** sqlite libsqlite3-dev

- **Node.JS:** `npm nodejs (sudo add-apt-repository -y ppa:chris-lea/node.js)`
- **Python 2.7:** `python python-gpgme python-software-properties python-pip python-sphinx python-dev`
- **Other:** `ruby-compass ruby1.9.1`

## 2.2.2 Step-by-step setup guide

1. Get the source code from <https://github.com/vucalur/django-wibses> and navigate to the download directory

```
$ git clone https://github.com/vucalur/django-wibses
$ cd django-wibses
```

2. Install required python packages by running:

```
$ (sudo) pip install -r requirements.txt
```

3. Prepare dictionary repository - TODO taipsedog

<https://pydic.readthedocs.org/en/latest/Introduction.html#preparing-a-pydic-dictionary>

4. Add django-wibses to your django site:

```
INSTALLED_APPS = (
    ...
    'wibses',
    'wibses.data_store',
    'wibses.py_dict'
)
```

TODO taipsedog: No 'wibses.data\_store' and 'wibses.py\_dict' - importing only 'wibses' shall do the trick

rst reference: <http://sphinx-doc.org/rest.html>

5. Set wibses-related Django settings

TODO taipsedog

Sample - do this similarly to: <http://django-getpaid.readthedocs.org/en/latest/installation.html#enabling-django-application> <http://django-getpaid.readthedocs.org/en/latest/settings.html>

6. Run the backend server

```
$ python manage.py runserver
```

running from PyCharm is advised though

7. Navigate to wibses/yo and download dependencies:

```
$ cd wibses/yo
$ npm install
$ bower install
```

7. Sitll inside wibses/yo run the frontend development server:

```
$ grunt serve
```

It should open the browser automatically.

## 2.3 Contributing guidelines

### 2.3.1 Git Workflow

- We use simplest possible rebase workflow based on [this](#).
- Reading whole [Chapter 3](#) is strongly encouraged.
- Do not even try invoking `$ git pull` or committing 3-way-merge crap like Merge branch 'master' of github.com: blah blah blah:-)

3-way-merges obfuscate history and screw annotations in IDE - Existing code that you are merging in gets annotated with your name, even if you aren't the author.

#### Cheatsheet - Rebase Workflow

Make plain old local commits of your work to the master branch:

```
$ # git pull      # !!!!!!!!!!!!! DO NOT EVEN TRY !!!!!!!!!!!!!
$ git fetch      # Keep up with recent changes before begining work.
...
$ git commit -m '[#123] Implemented a mechanism to make "blah blah blah" sound wise' # commit your work
```

Some advice:

- Use `git commit --amend`. It's more reliable and faster than local history in IDE.
- If you have a tendency to break down single unit of work into multiple commits locally, remember to squash them before submitting to repo.

Now, synchronize with repo:

```
$ git checkout master # make sure you are on master branch
$ git fetch # update origin/master with the latest changes from repo. It's safe = No conflicts here
$ git rebase origin/master # Place your local commits on top of commits from repo, that you just pushed
# Supposing you have a merge:
# 1. Resolve conflicts by editing conflicted files
$ git add <<conflicted_files_here__space_separated>> # 2. Mark conflicted files as resolved
$ git rebase --continue # 3.

# At this point you have local history in-sync with repo
# Now you can submit your code with plain old push:
$ git push
```

Note: `fetch` & `rebase` can be replaced with `$ git pull --rebase`.

For more information what's happening here, refer to [Rebasing](#) subchapter of ProGit.

### 2.3.2 Indentation

- Project is developed under PyCharm 3.X.
- Make sure you are using [JetBrains Codestyle](#) to indent your code.
- Some files should not be formatted - check what you're committing.

- Warning: PyCharm's code formatter tends to leave parts of CoffeeScript code unindented or screw CS indentation at all. Beware.

### 2.3.3 Code Analysis

- lint your (Coffee)JavaScript. Linting is done in default grunt task:

```
$ grunt
```

- Feel free to ask for a code-review

### 2.3.4 CI

#### Unit tests

Unit tests are executed after each commit by Travis-CI.

They can be executed locally by running one of following commands:

- `$ grunt`
- `$ grunt test`
- `$ grunt test:unit`

#### E2E tests

End-to-end test can be executed only locally due to limitations of grunt-protractor-travis combination.

**Historical note:** Previously ngScenario was the framework used for e2e testing. Back then e2e test were also executed by Travis-CI. We have decided to switch to Protractor as advised by Angular documentation (ngScenario was becoming deprecated). Due to lack of good support for grunt-protractor-travis combination e2e test are executed only locally. We hope that good integration will be available soon.

**In short: It's each developer's responsibility to make sure e2e tests pass before committing.**

#### Running e2e tests

- Navigate to `yo` subdirectory
- Download the Protractor dependencies:

```
$ ./node_modules/protractor/bin/webdriver-manager update
```
- Start the Selenium server:

```
$ ./node_modules/protractor/bin/webdriver-manager start
```
- Start backend (django) server if your tests rely on backend and it's not being mocked
- Start the frontend server:

```
$ grunt serve
```
- Run Protractor:

```
$ ./node_modules/protractor/bin/protractor protractor-config.js
```

### Debugging e2e tests

You may find [this](#) helpful

## 2.3.5 Commit messages

- Be precise, concise and meaningful
- Use [Git Commit Guidelines from AngularJS project](#)

We use following *types* (Additional **concept** type compared to the original):

- **feat** : A new feature
  - **fix** : A bug fix
  - **docs** : Documentation only changes
  - **style** : Changes that do not affect the meaning of the code (white-space, formatting, missing semi-colons, etc)
  - **refactor** : A code change that neither fixes a bug or adds a feature.
  - **perf** : A code change that improves performance
  - **concept** : Change of concept, both major and minor. Major ones shall be described in an issue: <https://github.com/vucalur/django-wibses/issues>.
  - **test** : Adding missing tests
  - **chore** : Changes to the build process or auxiliary tools and libraries such as documentation generation. Also bumping library version.
- Whenever there is an issue (aka ticket) created for what you are working on, reference it in a commit message, like:

```
feat(blah): #123 Implemented a mechanism to make "blah blah blah" sound wise
```

## 2.3.6 Python

- Whenever introducing dependency on a new python module make sure you change `requirements.txt` accordingly

## 2.4 Developer's Corner - known work-arounds

### 2.4.1 Installing beta/RC dependency version with bower

```
$ bower install angular-cookies --save
```

It will in fact put the latest *stable* version in `bower.json`, even if you select otherwise, hence next steps:

1. open `bower.json`
2. manually change version of the new dependency to the beta/RC version

3. download the beta/RC version:

```
$ bower update # to actually fetch manually changed version
$ grunt bower-install # to inject to index.html
```

The last one might not inject stuff properly, even if invoked a couple of times. In such case you will have to inject stuff manually to the `index.html`.

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### Authors

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Developers, Architects:

- Wojciech Krzystek ([vucalur](#))
- Yaroslav Machkivskiy ([taipsedog](#))

Customer, mentoring:

- Krzysztof Dorosz ([cypreess](#))





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## Indices and tables

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- *genindex*
- *modindex*
- *search*