



OpenEyes - Installation Guide

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Target Audience

General Interest	
Healthcare managers	
Ophthalmologists	
Developers	✓

Amendment Record

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Introduction

This guide gives step by step instructions for the installation of the latest version of OpenEyes. OpenEyes can be installed on any machine set up as a web server. Detailed instructions on setting up a server on computers running UNIX, MacOS, or Windows can be found in separate documents.¹⁻³ An active internet connection is required. The following instructions apply to installation on a Mac, but will be very similar to those required for other operating systems.

Preparation

1. Create a directory

Decide on a suitable directory served by the web server in which to create your installation. For the purposes of this example, it is the ~/Sites directory. From within the directory, create a folder for the OpenEyes installation, and change directory to it;

```
▶ cd ~/Sites
▶ mkdir openeyesdev
▶ cd openeyesdev
```

2. Download and Install Yii

While in the same directory, create a folder called 'yii';

```
▶ mkdir yii
```

The latest version of the Yii framework can be downloaded from [here](#). If you click the download link, you will most likely get a .tar file which should then be uncompressed. You will then have a folder called something like 'yii-1.1.13.e9e4a0', depending on the version number. Copy the folder called 'framework' into the yii folder that you have just created;

```
▶ cp -Rfp ~/Downloads/yii-1.1.13.e9e4a0/framework yii/
```

Adjusting permissions

On a UNIX based server, you will need to ensure that the web server has full access to all the files and folders in the openeyesdev directory, There may be a web server group (in this example it is _www), so you should assign group permissions to the whole tree by moving up the directory and using the chgrp command;

```
▶ cd ..
```



```
▶ sudo chgrp -R _www openeyesdev
```

You should also ensure that the tree is group writeable using the following command;

```
▶ sudo chmod -R 775 openeyesdev
```

Downloading OpenEyes

There are two ways of downloading the software. If you have a github account, and a local ssh key which is associated with it, you can clone the repository. The advantage of this approach is that it is then easy to install updates using git pull. The alternative is to download the software using HTTP. For the latest stable version of the code, you should use the master branch.

Installation using Git

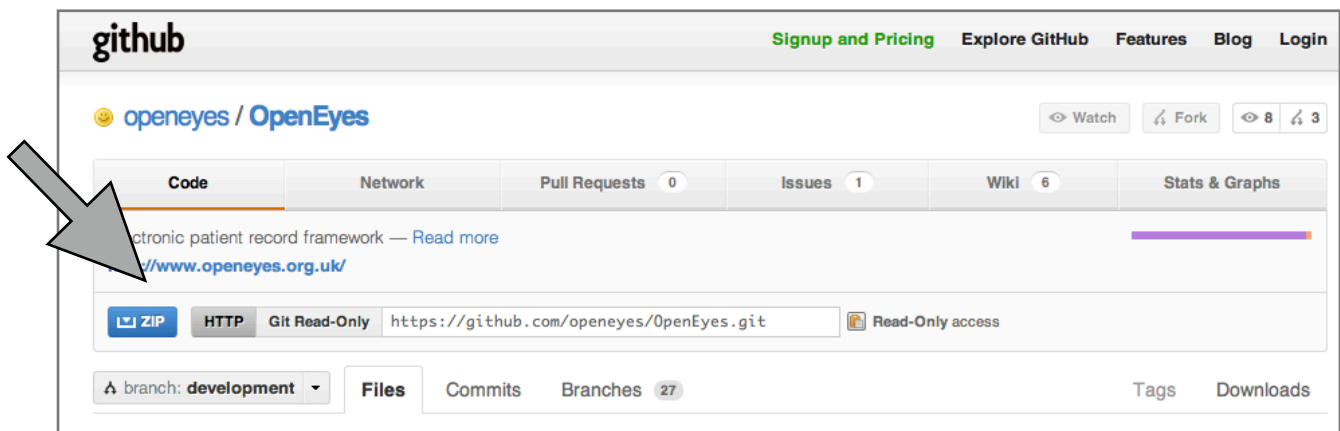
Ensure you have Git installed, have created a GitHub account, and have uploaded an ssh key. Detailed instructions on how to do this can be found [here](#). Run the following command which will clone the current version of the software into the present working directory (openeyesdev);

```
▶ cd openeyesdev
▶ git clone git@github.com:openeyes/OpenEyes.git
```

Once the download is complete, you will have a new subdirectory called OpenEyes in the openeyesdev folder.

Installation using HTTP

Point your browser to the OpenEyes page on GitHub [here](#). Click on the 'zip' button to download the repository.



Once downloading is complete, unzip the file, and copy the contents into the openeyesdev directory;

```
▶ cp -Rfp ~/Downloads/openeyes-OpenEyes-d7b2a88 OpenEyes
```



NB. You will need to edit the above line to correspond with the name of the unzipped folder.

Branches

You will now have a new subdirectory called OpenEyes within the openeyesdev directory, so move to it;

```
▶ cd OpenEyes
```

Decide which branch you wish to use; the available branches can be shown using the following command;

```
▶ git branch -r
```

We recommend sticking with the development branch for the core, but to track another branch use;

```
▶ git checkout -t origin/release/1.3-moorfields
```

Configure OpenEyes

OpenEyes has a local configuration file which needs to be generated. Change directory to the local configuration folder, and read the README file;

```
▶ cd protected/config/local  
▶ more README
```

Follow the instructions, which (at the time of writing of this manual) involve creating a copy of the template file and editing it with (as a minimum) your database configuration details (username, password);

```
▶ cp common.sample.php common.php  
▶ edit common.php
```

Create a runtime directory in the protected folder, and give it write permissions;

```
▶ cd ../..  
▶ mkdir runtime  
▶ chmod -R 775 runtime
```

Make the assets folder writeable too

```
▶ chmod -R 775 ../assets
```

Create an index.php file



```
▶ cd ..  
▶ cp index.example.php index.php
```

Create a .htaccess file

```
▶ cd ..  
  cp .htaccess.sample .htaccess
```

Depending on your configuration, you may need to uncomment the ReWriteBase rule in the .htaccess file.

Set up the database

1. Create the database

Using MySQL client or equivalent, create a database called 'openeyes', with appropriate permissions and password corresponding to those in the config file (see above). The credentials will be put into the common.php configuration file in a subsequent step. MySQL should be configured to use lower case table names:

```
lower_case_table_names = 1
```

2. (Optionally) Install sample data

Install the sample data module and import one of the sample datasets. These are self describing, contained within the sql directory of the project. The base version is openeyes.sql

```
▶ cd ~/Sites/openeyesdev/OpenEyes/protected/modules  
▶ git clone https://github.com/openeyes/Sample.git sample  
▶ cat sample/sql/openeyes.sql | mysql -u [username] -p openeyes
```

3. Setup/update the database

After any code update to core or modules, migrations should be performed. For core, the following commands will do this

```
▶ cd ~/Sites/openeyesdev/OpenEyes/protected  
▶ ./yiic migrate
```

Troubleshooting

1. If you have problems with inserts during migration, ensure mysql is not in strict mode. In the config file of your mysql installation, remove STRICT_TRANS_TABLES and/or STRICT_ALL_TABLES from the sql-mode option.



2. After migration, it's possible that the yii sql cache has not been reset. If you get SQL errors, then clearing this cache may solve the problem.

```
▶ cd ~/Sites/openeyesdev/OpenEyes
▶ rm -rf cache/*
▶ rm -rf protected/cache/*
```

3. If you get browser errors similar to “Not Found - The requested URL /site/login was not found on this server.”, check you have created a valid .htaccess file in the OpenEyes directory.

Testing

If everything has gone according to plan, you should now be able to test the installation by pointing your browser to a link similar to this;

<http://localhost/openeyesdev/OpenEyes/>

This should show a login page as in the following screen shot. Login in with a username of ‘admin’ and a password of ‘admin’.

OpenEyes

Please login

Username:

Password:

Site:

Login

© Copyright OpenEyes Foundation 2011 | served, with love, by Bit-MacBook-Pro.local | Need Help? | email: helpdesk@example.com | phone: 12345678 | Online Help Documentation | OpenEyes

Install Optional Modules

OpenEyes will not do much without any event types, which (apart from booking) are loaded as optional modules. The following steps are required to install the operation note module and EyeDraw. Installation of subsequent modules will be similar, and will be covered by separate installation manuals.



1. Download the module

This event type allows recording of operation notes, and also depends on the EyeDraw module being loaded. As with core, the master branch is the appropriate branch to use (if you are using a different specific branch, then the corresponding branch in the modules should be used). These two modules are installed as follows.

```
► cd ~/Sites/openeyesdev/OpenEyes/protected/modules
► git clone https://github.com/openeyes/eyedraw.git eyedraw
► git clone https://github.com/openeyes/OphTrOperationnote.git
  OphTrOperationnote
```

2. Add to the module array in the config file

Yii needs to know about which modules to load so add this to the configuration file.

```
► edit ~/Sites/openeyesdev/OpenEyes/protected/config/local/
  common.php
```

The array should look like this after editing

```
'modules' => array(
    'OphTrOperationnote',
),
```

Note that only the event type modules need to be added here, EyeDraw provides widgets that the event type modules can use but isn't an event type module itself and so doesn't need to be included in this array.

3. Run module specific migrations

The following commands will run any database migrations required for this module

```
► cd ~/Sites/openeyesdev/OpenEyes/protected
► ./yiic migrate --
  migrationPath=application.modules.OphTrOperationnote.migrations
```

Current modules

Current modules are listed [here](#).

Gii tool

If using the Gii tool to autogenerate modules, ensure that the modules directory has write permissions from apache;

```
► chmod 775 modules
```



Updating

Assuming you have installed OpenEyes using Git, the following commands will download the latest version of the software;

```
▶ cd ~/Sites/openeyesdev/OpenEyes  
▶ git pull
```

References

4. OpenEyes Ubuntu Server Setup
5. OpenEyes Mac Development Setup
6. OpenEyes Windows Server Setup