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[**SPS installation**](https://bix-lab.ucsd.edu/display/specnets/SPS+docs+-+installation)

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**Installation instructions**

Unzip the Spectral Networks package to a directory **<installation directory>** (any directory of your choice). This directory should then contain the following directories:

* sps/bin – Contains the binary executables
* sps/cgi – Contains CGI scripts used by the program
* sps/fcgi – Contains fCGI scripts used by the program
* sps/Doc – Documentation
* sps/example – Test project

**Web server**

SPS is a command line tool that outputs reports in HTML format. Report pages may accessed using a web browser to render the HTML report files generated. These files should be made available by SPS using a web server such as Apache.

To enable interactivity in protein sequencing reports (see results documentation), there are two scripts available:

* **CGI**: in order to use this functionality, the script **<installation directory>/sps/cgi/spsplot.fcgi** should be present in the web server's configuration file. Additionally, the following change should be made:
  + Edit **<installation directory>/sps/cgi/spsplot.fcgi** at line 8. The line should be:
  + **$ENV{'LD\_LIBRARY\_PATH'} = “<installation directory>/sps/bin/libs”;**
* **FCGI**: in order to use this functionality, the script l **<installation directory>/sps/fcgi/spsplot.fcgi** should be present in the web server's configuration file.

**Testing the installation**

In order to test the installation, a test project and data are included in the package, in the directory named 'example'. To test the installation, execute the following procedures:

* cd to **<installation directory>/sps/example**
* edit the **sps.params** file.
  + **EXE\_DIR** should point to **<installation directory>/sps/bin** (should be an absolute path).
  + **REPORT\_DIR** defines the output directory for report files, should be in the webserver path, allowing for report pages to be served by the webserver (e.g. Apache).
  + **GRID\_SGE\_EXE\_DIR** should point to where SGE binaries are located (qstat, qsub, etc.).
  + **GRID\_EXE\_DIR** should point to where SPS binaries (the same pointed by **EXE\_DIR**) are *seen* on SGE.
* run **../bin/main\_specnets sps.params**
* From a webserver, open '**<URL path in webserver>/index.html**' which is located inside the specified report location directory, considering your webserver path specifications. The report initial page should be displayed.