

HOWTO - Configuring CoEd

CoEd is a configurable editor. The user can specify:

- the name of the components that will be configured;
- which are the mandatory parameters;
- which are the optional parameters and if they should present default values;
- the icon that will represent the component in CoEd's canvas;
- the button that will be shown in the bottom part of CoEd.

This means CoEd can be configured to present only the components the user wants to use, uncluttering the representation.

CoEd's configuration is set with a configuration file. The user can design many configuration files, and use them at will. When CoEd is installed, a standard configuration file is stored at:

```
<coed_path>/conf/egene.cnf
```

Any new configuration file will have to be stored in the same directory, <coed_path>/conf.

The configuration file is a list of specifications for each component. As an example, let's examine the configuration of `assemble_cap3.pl`:

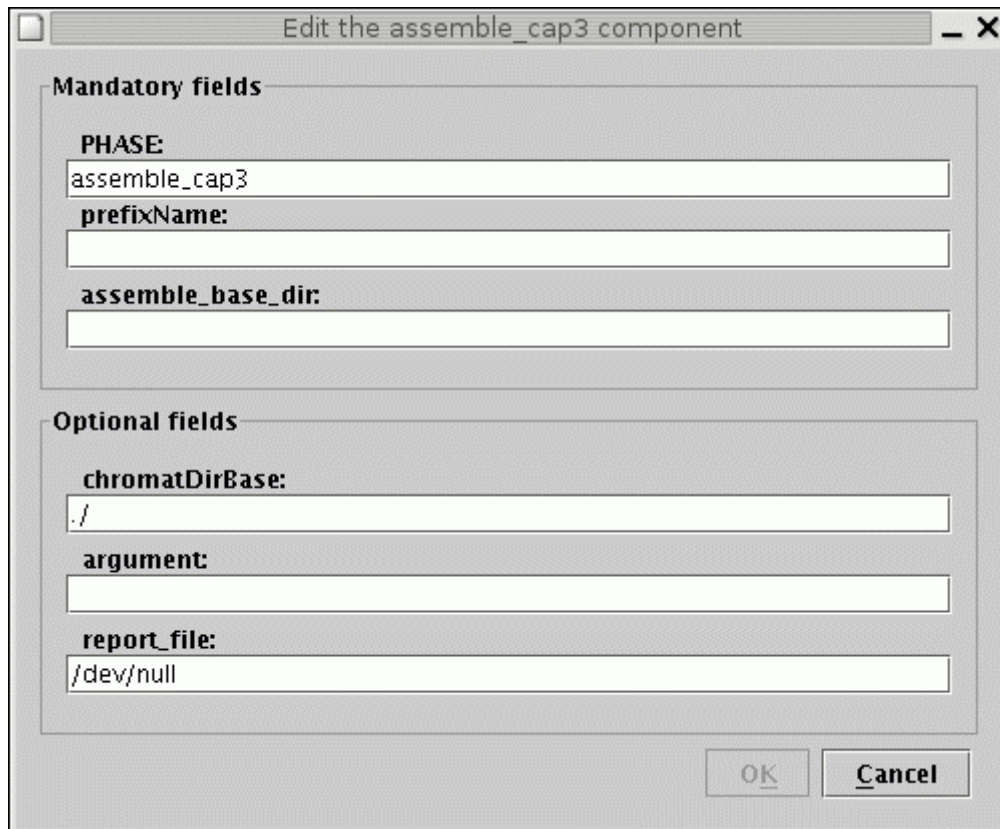
```
program=assemble_cap3.pl
==prefixName
==assemble_base_dir
argument=
report_file= /dev/null
chromatDirBase= ./
icon= assemble_cap3
```

There are seven specifications for this component. The first and the last ones describe the pipeline component name and the where to find the visual representation. The other five specifications describe which are the parameters that should appear in the EGene configuration file:

- `program`: name of the program that will run the component.
- `==prefixName` and `==assemble_base_dir`: in this example, `assemble_cap3.pl` has two mandatory parameters, `prefixName` and `assemble_base_dir`, indicated by the names of the two parameters preceded by the double-equal sign ("=="). These specifications tell CoEd to require the user to fill the values for these two parameters when the configuration window is presented.
- `argument`: `assemble_cap3.pl` has three optional parameters, `argument`, `report_file` and `chromatDirBase`. Of these, two have default values, `report_file`, and `chromatDirBase`. Optional arguments are followed by the equal sign. Default values, if they exist, come after the equal sign. Default values specified here will appear in the configuration window presented to the user by CoEd
- `report_file`: in this example, we are deleting the output by redirecting it to a null device.

- `chromatDirBase`: in this example, we specify the current directory (`"/"`)
- `icon`: name of the files that hold the icon and the button that represent the component in CoEd. These files should be stored in the directory `<coed_path>/images`, and both should have the same prefix. In our example, the files will be `<coed_path>/images/assemble_cap3.gif` for the icon and `<coed_path>/images/assemble_cap3_button.gif` for the button.

Using the specification above, CoEd will present to the user the configuration window below, when setting the `assemble_cap3.pl` component:



The image shows a graphical user interface window titled "Edit the assemble_cap3 component". The window is divided into two sections: "Mandatory fields" and "Optional fields".

Mandatory fields:

- PHASE:** assemble_cap3
- prefixName:** (empty field)
- assemble_base_dir:** (empty field)

Optional fields:

- chromatDirBase:** ./
- argument:** (empty field)
- report_file:** /dev/null

At the bottom right of the window, there are two buttons: "OK" and "Cancel".