

Gems are Ruby distribution packages for 3rd party software. They can be installed by opening a command-line window, navigating to the folder where the gem file resides, and running the `gem install` command. Multiple gems can be installed with a single `gem install` command. On Windows systems the commands to install the Data Farming gem are:

```
gem install colorize-0.8.1.gem fwt-1.2.0.gem  
gem install datafarming-1.3.0.gem
```

On OS X, Unix, or Linux the command is:

```
sudo gem install colorize-0.8.1.gem fwt-1.2.0.gem  
sudo gem install datafarming-1.3.0.gem
```

which will prompt you to authenticate with administrative privileges.

The datafarming gem contains a variety of tools, many of which are described in the Data Farming 101 tutorial. All of these scripts use the `colorize` gem to format and highlight usage information when invoked with a `-h` or `--help` option. The `fwt` gem is required for generating Resolution V Fractional Factorial designs with `scaled_rf_cubed.rb`. The `simplekit` and `quickstats` gems are required if you wish to run the `Ao_Model.rb` demo.