CGI Instructions

Understand local vs. remote

Some of the commands need to be done "locally", that is on *your* computer. You will be doing them in the terminal but without connecting to yoda through ssh. When you are in a *local* shell, you are essentially giving commands to your computer. Other commands need to be done "remotely", that is on yoda. When you are in a *remote* shell, you are giving commands to yoda. It is confusing, because the two shells looks very similar. You do have one clue, though. When you are in your local shell, you will see your *local* computer name at the beginning of the line. If you connected to yoda, you will see something like "skywalke@inf1004:~". (Yoda is officially known as "inf1004" on the network, don't ask why.)

To go from local to remote, run ssh. To return to local type "exit" in your remote shell. Often you will want to have both open at the same time: a remote shell in one terminal window and a local shell in another.

Create a CGI directory

If you weren't in class on Monday, you will need to create a directory called "cgi-bin" and give it proper permissions. To do this, first connect to yoda over SSH, then run the following commands *remotely*:

```
mkdir ~/public_html/cgi-bin
chmod a+rx ~/public_html/cgi-bin
```

Install the Sample Script

Get cgi.zip from http://takhteyev.org/courses/11W/inf1343/cgi.zip. Unzip it and get personas.cgi from it.

Open this file with a program like Notepad++ (Windows), TextWranger (Mac) or Gedit (Linux). Change line 8 replacing "kenobio1" with your username (utoroid). E.g., if your username/utorid is "skywalke", you should change that line from

```
config = "/home/kenobio1/.my.cnf"
```

to

```
config = "/home/skywalke/.my.cnf"
```

At this point you should be careful to not make ANY other changes. (There will be an opportunity to experimentation later.)

Copy the file to yoda. To do this, open a terminal and use scp to copy over the file. Do this *locally*. (Either exit your remote shell or open a new terminal and do not connect to yoda in it.)

```
scp personas.cgi skywalke@yoda.ischool.utoronto.ca:~/public_html/cgi-bin/
```

(If you personas.cgi is not in your current directory, you would need to specify the full file path to it.)

Connect to the server using ssh to set the right permissions. Do this *remotely* (after connecting to yoda with ssh).

```
cd ~/public_html/cgi-bin/
chmod a+rx personas.cgi
```

Test it

You should be able to go to http://yoda.ischool.utoronto.ca/~skywalke/cgi-bin/personas.cgi and see the same result as at http://yoda.ischool.utoronto.ca/~kenobio1/cgi-bin/personas.cgi. If you don't, go through all the steps again, consult with your colleagues or check with me.

Experiment

If you got the basic script working, you can try experimenting with it. Edit the file, then copy it to yoda again and see if you can, for example, have it display different columns, show results of a different query, display them a little differently or even connect to a different database.