Creating your webpage

Location: The URL for your webpage is `http://www.math.uchicago.edu/~username` where you need to replace `username` with your math department username. By default, this is the same as the part before the `@math.uchicago.edu` in your math.uchicago.edu departmental email address. For instance, Peter May's email ID is `may@math.uchicago.edu` and his webpage URL is http://www.math.uchicago.edu/~may

To create your webpage, put the relevant files under the `public_html` subdirectory of your home directory on the math department server. You can either create the files on your math department server, or you can create them elsewhere and use scp, sftp, or a similar tool to transfer the files.

By default, the math server will look for a file named `index.html` when trying to serve up the homepage in a directory. In particular, the file that you want to appear for your homepage should be stored with the filename `index.html` in the `public_html` subdirectory of your home directory.

For advice on how to create HTML, please look to the numerous guides available on the World Wide Web. Google can help you get started. There are a number of services that will help you create and test HTML, and some may allow you to create a site on their servers that you can then download and port to the department website.

Porting a website from your personal machine or another server: You can use `scp` or `sftp`. There are many ways of doing this. The following command will work if you are using a terminal on a Mac or Linux machine:

```
scp -r yourwebsitedirectorypath/* username@math.uchicago.edu:~/public_html/
```

where `username` is your math departmental username and `yourwebsitedirectorypath` is the directory path to the website you have on your computer. You will be prompted to enter your math departmental password and the file transfer will occur only after you successfully do so.

If you are using a Windows machine, then download `pscp.exe` from http://www.putty.nl and run the following from a Command Prompt:

```
pscp -r yourwebsitedirectorypath/* username@math.uchicago.edu:~/public_html/
```

You can also use `scp` or `pscp` to transfer files from another server where you hosted the files to the math department server. In that case, `yourwebsitedirectorypath` is replaced by `username@oldserver:yourwebsitedirectorypath`.

There are also other softwares that facilitate scp using graphical interfaces, and you should consider using these if you would like more control over the process but are unfamiliar with UNIX command environments.

Finally, note that updates you make to the version on your computer will not be reflected in the math department version. There are technologies, such as `rsync`, that will allow for easy updating; otherwise you will need to copy the updated files again. If you prefer, you can simply edit the pages directly on the math department server, either by logging in to a department machine or using SSH.

Permissions: After you have uploaded the files to the `public_html` directory, you need to make sure that the files are accessible over the web. In order to do this, the `public_html` directory and relevant subdirectories need to have read and execute permissions, and the files that you want to be publicly visible should have read permissions (this includes image files that are included on other pages). The following command is a way to bring this about, if you are logged in to a terminal on the math departmental server:

```
chmod og+rx -R ~/public_html/
```

Note that you need to be either physically logged in to one of the math machines (any of the machines in the Eckhart computer lab will work), or you need to be logged in via SSH.

Logging in via SSH: If you are using a Mac or Linux machine, you can SSH directly from a terminal using the command:

```
ssh username@math.uchicago.edu
```

and enter your password when prompted. If you are on a Windows machine, download `putty.exe` from www.putty.nl and enter `username@math.uchicago.edu` when asked for the host name when you run the software.

Public listing of your webpage: Once your webpage has been created and you are ready to list it publicly, please email `webmaster@math.uchicago.edu` for a link from the math department listing. Faculty webpages will be linked from the person's name at the faculty listing page. Graduate student webpages will be linked from the person's name at the graduate student listing page. Please note that Google and other search engines can index your page only after they find links to it from pages that are already in their index. Therefore, to make your webpage discoverable via Google search, we recommend that you request it to be linked once it is ready for public consumption. There is a time lag ranging from a few hours to a few weeks from the time that your page gets linked to the time that search engines index your page (see, for instance, Google on how it crawls, indexes, and serves sites).