

## Foundation Year Group Project Website

Throughout the foundation year project you learned about Linux, Bash scripting, Latex and HTML. In this and the next session, we want you to combine many of those skills to produce a website.

Please note: your foundation year group project website will serve as slides for the presentations that we will have during our last meeting (**May 2nd**). Then, each group will present their website and findings. Presentation shall be ~5 minutes per group member and ~20 minutes per group. So please coordinate with your group for this presentation.

If you prefer, you can use traditional slides instead. You can use Open Office (use the office command in a shell) or Latex to produce slides.

The website/presentation shall provide information about the following topics:

1. Markup languages and scripting [~20%]
2. Technologies used to build the website (e.g., bash scripting) [~20%]
3. A group team page with information about each group member [~30%]  
(e.g. interests, hobbies, projects etc.)
4. Facts about the University of Manchester and the School of Computer Science [~30%]

This shall include:

- Statistics and background information
- Research groups / research projects
- Courses

The four topics shall be covered with about roughly the space given in the [] brackets. It is allowed to reuse content from previous sessions as long as the content was created by the group. As with a good website, try to be concise and exciting. Try to impress with your findings. Please mind to include references where needed.

The group website and presentations will be assessed based on 1) content, 2) design, 3) technical brilliance and 4) presentation skills (25% for each criteria).

For producing a technical brilliant website you should automatically link the content of the different group members together (either through accessing your home directories or through the private school web space). Furthermore, use (bash) scripts that automatically filter content from other sources of the internet, where it is sensible.

For instance, let us assume your website includes the fact:

"According to the Times Higher Education World University Rankings, the University of Manchester is currently listed at place 52"

Then, instead of "hard coding" the 52, you could derive this value automatically from the internet with:

```
wget http://www.timeshighereducation.co.uk/  
world-university-rankings/2014-15/  
world-ranking/institution/university-of-manchester  
(google for "times university ranking manchester" to get the link)
```

You can then use the following (as a start) to find the pattern that you can use with `grep` to extract the 52 later automatically with the help of a script:

```
cat university-of-manchester | grep "52"
```

You can consider writing a script to automatically update your website if the numbers for the next years are available (see how the links differ from year to year).

You can use, for example, all the skills that you learned from your Linux and bash scripting session to automatically manipulate an html-file that contains the wanted information (e.g. working with variables, concatenating files, automatic string manipulations using the commands `grep`, `sed`, `tr`). Use the internet, man pages or the foundation year course material for help or ask a teaching assistant.  
<http://studentnet.cs.manchester.ac.uk/ugt/2014/COMP00900/>

There are other more elegant ways to extract content from other websites. However, you will see that the knowledge you learned in only a few hours allows you already to perform quite complex tasks. Try to work as a group and share knowledge with your group members when you figured out how to achieve a certain task for the website automatically.

As another way to use your bash scripting skills, you can auto-generate HTML files as learned in the second scripting session.

Think about other content that is sensible for automatic adjustments like for example:

- Time stamps with the last modification date
- Number of search results
- Number of publications of a research group or a project
- ...

If you are done with your website (**on April 30th**), **send one mail per group** to:  
[dirk.koch@manchester.ac.uk](mailto:dirk.koch@manchester.ac.uk)

Mail Subject:  
Project Website - Group [your group]

Mail Body:

- Link to your website
- Contributors  
(names of the group members that contributed to the website)

Late mails or mails not following these instructions may receive less marks for this deliverable!