# Computing for mathematics handout 10 - File paths, formatting, floating figures, cloud.sagemath, plagiarism and next semester.

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#### What you have learnt this week:

LaTeX.

#### Paths

There are two (popular) types of operating systems:

- \*nix (which powers Linux and Mac computers): more popular for coding.
- Windows: more popular for gaming.

File paths on \*nix machines use / to separate directories:

/home/vince/photos

On Windows machines \ is used:

C:\vince\photos

LaTeX uses the \*nix syntax even on Windows.

Good practice:

- No spaces in files and/or directory names.
- Have a directory in your folder with your images: Images. Refer to those images:

```
\includegraphics {./Images/pic.png}
```

This helps keep your directory tidy.

#### Page formatting

The following in your 'preamble' (before the  $\lceil \log(document) \rceil$ ) will use up the full page:

```
\usepackage { fullpage } \usepackage { parskip }
```

There are other ways to change the layout of a LaTeX page: http://en.wikibooks.org/wiki/LaTeX/Page\_Layout.

## Floating figures

## cloud.sagemath

The inventor of Sage: William Stein has recently been working on a very ambitious project: cloud.sagemath.

"There are 288 cores, 1216GB RAM and 50TB disk space dedicated to the Sagemath Cloud cluster."

You can read about the progress of cloud.sagemath on G+ but at the moment you can use it as a (more or less) full linux machine with access to:

- Python;
- Sage;
- LaTeX;
- R;
- Bash...

Note that this is an external service (the servers sit at Washington University).

## Plagiarism

Be careful to not not plagiarise. Here are the University's guidelines on plagiarism and unfair practice: <a href="http://cardiff.ac.uk/regis/ifs/p">http://cardiff.ac.uk/regis/ifs/p</a> As long as you reference any work that you use as a source you'll be fine (for example a website from which you have taken some code).

#### What you should do next:

- Think of groups and topics for next semester
- Finish the coursework
- If anything is still unclear **please** come and see me during office hours.