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

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**Office hours: Thursday 1300-1500**

## 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 \begin{document}) 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](https://cloud.sagemath.com/)

The inventor of Sage: [William Stein](http://goo.gl/bkzDDP) 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: <http://cardiff.ac.uk/regis/ifs/plag/>.

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.