

# Computing for mathematics handout 10 - File paths, Fullpage, Floating figures, cloud.sagemath and plagiarism.

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**Office hours: Thursday 1300-1500**

## What you have learnt this week:

Some basic Sage code to solve differential equations:

- ODEs;
- Systems of ODEs;
- Numerical solutions of ODEs (for when they can't be solved exactly).

## 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](http://en.wikibooks.org/wiki/LaTeX/Page_Layout).

Floating figures

[cloud.sagemath](https://cloud.sagemath.com)

Plagiarism

What you should do next:

- Work through LaTeX lab sheets.
- **Finish the coursework**
- Contribute to the wiki.
- If anything is still unclear **please** come and see me during office hours.