Final Project Recommendations

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2024-03-09

Including graphical images in your report

If you produce your report using LaTeX (recommended!) the following example shows how to include graphical images:

- [latex example with graphics] [graphic] [pdf]

The main point here is that you need to use the `graphicx` package

```
\usepackage{graphicx, color}
```

and that the command

```
  \includegraphics[scale=.5]{graph-example}
```

displays the graphic found in the file named `graph-example.png` (or `graph-example.jpg` or…)

The `[pdf]` link shows the output. To use this yourself, you'll need to save the `latex` file as well as the `png` graphic file. You can read a bit more here about how to use this in overleaf. You'll need to *upload* the file `graph-example.png` to Overleaf…

Video recommendations

- The *simplest* way to make the required video for the final project is to film yourself speaking while writing on a whiteboard or chalkboard.
- A better method is to use video-editing software which will allow you to narrate your talk while displaying *slides* which you might produce in LaTeX using the package `beamer`.

  Try *googling* (or searching on `youtube`) for something like:

  `presentations using latex and beamer`

  - Example of video-editing software: `openshot`
  - discussion of `beamer` at the `overleaf` site: `beamer`
  - using these tools will make it easier to *visually demonstrate some aspect of mathematics involved in your report*
  - here is an example of some beamer slides:

    [latex] [graph] [pdf]

    This example includes an illustration of how to include *images* in a latex file. In order to use this example, you'll need to save both the LaTeX file and the graphical `png` file.

    The `[pdf]` link shows the output. To use this yourself, you'll need to save the `latex` file as well as the `png` graphic file. You can read a bit more here about how to use this in overleaf. You'll need to *upload* the file `graph-example.png` to Overleaf…

Bibliography