

In this workshop you will revive your presentation skills and make use of the Beamer document class.

## 1 Feedback


The feedback for your first hand-in should be available online. Please make sure that you have reviewed this carefully and discuss anything you need with the tutors. Note the tutor may not have been the one to mark your work and so may not have seen your hand-in before.

## 2 Beamer

Just as most mathematical writing uses  $\text{\LaTeX}$ , most mathematical presentations which incorporate slides will use  $\text{\LaTeX}$  also. In particular the slides are made using the Beamer document class. You will already have seen many slides created in this way. Today you will create some yourself.


We will focus on creating a set of slides to support a presentation approximately 10 minutes long. In this workshop we will create a set of slides introducing Möbius transformations to someone who may have missed those lectures.

Note that 10 minutes will be somewhat shorter than presentations you may make in the future. For example, a final year group project presentation is 25 minutes; but you should have a lot more material to talk about in that case!


 **Exercise 2.1** Visit <https://www.overleaf.com/read/fffndpdmcxgt> to see a poor presentation which intends to introduce Möbius transformations. In groups (tables), go through the slides and discuss what makes them so poor.

Give consideration to all aspects which can impact the quality of a presentation. You might consider the following to start with.

- What role do slides play in a presentation? How do they help the audience?
- What will the speaker be saying?
- How much detail should be included in the mathematics?
- How should slides differ from ‘lecture notes’?

 **Exercise 2.2** As a group, create a set of slides which would support a presentation on Möbius transformations. The presentation should be about 7-10 minutes in length and your audience is a fellow student in Honours Complex Variables who missed the lectures on the topic (and didn’t even read the notes!).

As you’re doing this in a workshop you won’t have much opportunity to fine tune the length. You should prioritise making quality slides with a useful amount of content. We’ll move on at about 15:15 during the Tuesday workshop, and 12:15 during the Wednesday workshop.

 **Exercise 2.3** Join up with another group and take turns to share your presentations. You should deliver a presentation using the slides you created. This can be by one person in your group or by multiple with each taking only a small part of the

presentation. We recommend that just one person present. You will not be assessed on this presentation but it will help you gain an understanding of how the slides you created actually work.

Once both presentations have been made, you should give feedback. What worked well, and what worked poorly? How could each set of slides be improved?