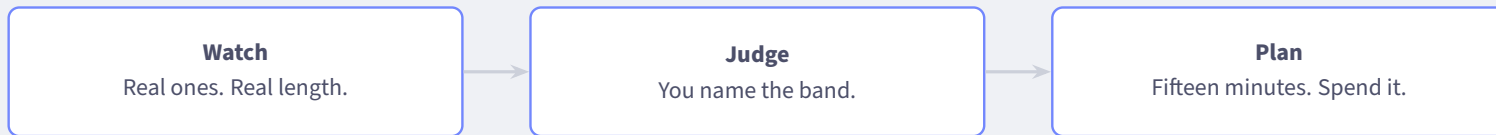


Presenting mathematics

Week 9. Three presentations, and what you make of them.



It is not your slides.

If the audience could get everything from your visual aids without you, you have written a document, not a talk.

1. If you put up a visual aid, the audience will look at it. So it had better be helping.
2. Less is more. A shorter presentation is better than a longer one.
3. Teaching and presenting are not the same thing. You are not teaching us your library.

Your job is to spark interest, not to transfer everything you know.

	One	Two	Three
Minutes before the library appeared	<input type="text"/>	<input type="text"/>	<input type="text"/>
Visual aids: working, or a transcript?	<input type="text"/>	<input type="text"/>	<input type="text"/>
What did you learn that the README would not tell you?	<input type="text"/>	<input type="text"/>	<input type="text"/>
Could you tell what each member had done?	<input type="text"/>	<input type="text"/>	<input type="text"/>
Which band?	<input type="text"/>	<input type="text"/>	<input type="text"/>

These are real submissions for this exact piece of coursework, shown with their groups' permission.

The paper and the presentation are marked **together**, on five things:

Summary. **Statement of need.** **Quality of writing.**

Functionality. **Presentation and visual aids.**

A good paper and a rushed presentation cannot both be true of the same group. The marker sees one mark.

The problem, and why anyone cares

The mathematics

What the library does, and how it is built

The demonstration

What it does not do

Eleven minutes of mathematics and three of software is the commonest way to lose this mark.

Storyboard it like a film. What are the eight scenes?

A scene is not a slide. One scene may need three slides, or none at all.

Nothing can fail live.

Which means a **failure that is still in the recording**
is worse than a live one.

Rehearse the demonstration once before you record it. Then watch it back before you submit.

Principles of presentation

Audience, storyboard, visual aids, rehearsal.

Documentation of code

Four sections, each written for a different reader.

You read these **on your own**. The next three slides are the parts that catch people.

Tutorial

How to

Reference

Explanation

A recipe. Your first time in a kitchen. Why a cooked onion tastes sweet. Every ingredient in the cupboard, listed.

To achieve a goal, to learn, to understand, to find information. All four are in the Scope criterion.

README.md

Somebody deciding whether to use your library, and learning how.

Docstrings

Somebody reading one function, inside the code.

You need both. Which of the two is a good variable name part of?

Neither, and both. A name is documentation that cannot go out of date.

Give it to another group.

The criterion is that your README .md would be usable by somebody outside your group, with no help from you.

That is a test you can actually run, this week, in ten minutes.

Decide who says what

Every member speaks in the recording
It should match your contribution.md

Rotate the roles

A new **chair** and a new **secretary**
One meeting week left after this one

Meet this week. Bring the Week 9 minutes to the next session. The fourth of the five that *I* is counted from.