ProgTeach: Programming Community of Practice

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Noteable and ProgTeach: A Whistle Stop Tour
ProgTeach

- Community based around computational teaching
- Sharing good practice
- Showcase new and supported technologies
What is Noteable?
"The Noteable service is a cloud based platform providing access to Jupyter notebooks online. Noteable provides a central storage space to store and run Jupyter notebooks in a variety of programming languages"
What are Jupyter notebooks?

- Computational notebook
- Multi-language support
- Open Source
- https://jupyter.org/
Why use Jupyter?

- Able to provide context alongside live code
- Can create visualisations, data tables, embed media and work with remote data sets
- Not as daunting as Terminal or IDE
- Great for introductions to new students
How to access?

Local Install

Jupyterhub

Created by Ananth from Noun Project

Created by AlePio from Noun Project
Introducing...
Why Noteable?

- Central service supported by EDINA
- Learn integration
- Supporting teaching use case across University
Noteable Pilot – Semester 1

► >600 users

► 6 different Schools

► Alternative use for training

► Benchmarking service against market
Noteable Pilot – Semester 2

► >500 users in 4 schools

► nbgrader implementation

► First round of feedback

► Case studies ongoing
Feedback

Do you intend to use the Noteable service again?
- Yes
- No

How would you rate the ease of use of the Noteable service?
- Neither
- Easy to use
- Very Easy to use

How would you rate the ease of adoption?
- Neither
- Easy
- Very Easy

"Using Noteable helped my students to interact with the material"
- Neither
- Agree
- Strongly Agree
Get involved

- Get in touch to trial Noteable
- Use Noteable in your classes or training
- Looking for Jupyter for Research users
- Share practice with others
CodeRunner
In your groups spend 10 minutes discussing what the ideal programming class would be in relation to each of the following topics:

- Technology/Tools
- Assessments
- Space/Room
- Method/Material
- Different Skill Levels
- Outside of class
Technology and Tools

- What tools or platforms do you use
  - Are these language specific
  - Do these add barriers, students need to learn how to use

- Do you use tools or platforms that are not related to coding but help e.g. discussion boards

- What tools or platforms would you like to see supported at the University
Assessments

- Do you use specific tools for assessment
- Do you set regular formative assessments
- What kind of feedback do you give
- Do you make use of peer-reviewing
- Are your assessments entirely code-based or theory-based
- Do you set assignments
What is the best/ideal space for you to use and why

Are you limited by access to resources i.e. machine with specific software

What is the ideal length of session
Method and Material

- What type of session do you believe is best
- Would you encourage students to follow along or work at their own pace
- Do you encourage group work or peer learning
- Do you focus on theory first
- When do you introduce code
Dealing with different skill levels

- How do you deal with teaching an audience of different skills levels
- Do you encourage advanced students to help
- Do you set activities/challenges for those further ahead
Outside of Class

- What work do you set outside of the class?
- Do you set group work?
- Do you have information students access before the sessions?
- What ratio is this compared to in-class work?