



PyGgb and Pytch by Ben North - Departamento de Matemática

October 9, 2024 - 14:30 - room 11.1.32

PyGgb: Learning Python through GeoGebra

PyGgb is a free online system which integrates the programming language Python with the interactive geometry system GeoGebra. In this workshop, I will give an overview of GeoGebra and of Python, and explain the motivation for PyGgb. We will then see how to use PyGgb in the classroom to blend maths with computer science and programming, using a range of examples and resources. Everyone should please bring a laptop, to follow along and try things out for themselves! I hope the workshop will be of interest to those involved in maths education and/or computer science education, either as practitioners or researchers.

October 9, 2024 - 16:00 - room 11.1.32

Pytch: A bridge from Scratch to Python

Pytch is a free online system which helps young learners make the transition from MIT's Scratch to Python. In this workshop, I will give an overview of Scratch, a fantastic system for creating fun projects with graphics and sound. I will outline why students can find it difficult to move to Python. I will introduce Pytch, a Scratch-like online coding environment where students learn Python. We will then work together through an example Pytch project, so please bring a laptop! I hope the workshop will be of interest to those involved in computer science education, either as practitioners or as researchers.

October 10, 2024 - 11:00 - room 11.2.21

Further PyGgb: More advanced Python and GeoGebra

PyGgb is a free online system which integrates the programming language Python with the interactive geometry system GeoGebra. In this workshop, we will work through some further examples of PyGgb programs, to show how more advanced Python concepts can be taught through PyGgb. Everyone should please bring a laptop, to follow along and try things out for themselves! I hope the workshop will be of interest to those involved in maths education and/or computer science education, either as practitioners or researchers.



Ben North. Ben is a research fellow at Trinity College, Dublin, Ireland. He has been interested in maths and computer science education for a long time, and is enthusiastic about people having the power to freely create their own technology, and not just being consumers of technology that others have made. Ben holds an MA in Mathematics and a DPhil in Engineering, both from Oxford University, UK.

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