Introduction to MATLAB

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Important Links

- Course Notes

- MATLAB installation instructions

- Official MATLAB help pages

- Course Feedback

Timetable

- **09:00 — 10:30** Session 1, part 1

- **10:30 — 10:45** Break

- **10:45 — 12:00** Session 1, part 2

- **12:00 — 13:00** Lunch

- **13:00 — 14:30** Session 2, part 1

- **14:30 — 14:45** Break

- **14:45 — 16:00** Session 2, part 2

Teaching methods

- Live coding

- Exercises to try out what you're learning

- Course notes and slides available online

- All examples and exercises included in notes

Getting help / asking questions

- Use Zoom reactions:

- 'Green tick' if you're okay

- 'Red cross' if you need help / you're not okay

- 'Raise hand' if you want to ask question

- You will have questions, please ask them!

MATLAB

- MATLAB (MATrix LABoratory) is a programming language and numerical computing environment with its own IDE (Interactive Development Environment

- [Advantage] Very good at matrix operations

- [Advantage] Large user base in science and engineering

- [Advantage] Well documented

- [Advantage] Can do a lot with it

- [Advantage] "Semi-interpreted" language - easy to use, great for prototyping and debugging

- [Disadvantage] "Semi-interpreted" language - slower than "compiled" language (eg C/C++)

- [Disadvantage] Not free to use or open source

Let's Code!

Next steps

- Please fill in the feedback <u>form</u>.

- How can you use what you've learned today?

- Google and MATLAB documentation are very useful if you get stuck.

- Attend one of our other <u>courses</u>.