

Programming Fundamentals

An Introduction to the module

Produced by: Ms. Mairead Meagher
Ms. Siobhan Roche



Department of Computing and Mathematics
setu.ie

Agenda

- *Lecturers / Tutors*
- *Module Structure & Delivery*
- *Technologies*
- *Module Assessment (Assignments)*
- *Troubleshooting*
- *Ethos*

Introducing your lecturers / tutors

Siobhan Roche

- Profile: <https://www.setu.ie/staff/siobhan-roche>
- Email: siobhan.roche@setu.ie



Mairead Meagher

- Profile: https://www.wit.ie/about_wit/contact_us/staff_directory/Mairead_meagher
- Email: mairead.meagher@setu.ie






Programming Technologies

Assignments


- 100% Continuous Assessment (CA).
- All Individual assignments
 - (no team-based ones).
- Submit via Moodle assignment dropboxes.
- Hard deadlines;
extensions only permitted if [mitigating circumstances](#) apply.
- Interviews

What to do if you don't know what to do...


Ask in Class or at labs: Just put your hand up or wait until the end of the class, its up to you but asking during the class really helps all the students



Message your lecturer in Slack: You can always send us a private message and we will respond before the end of the next college day.



Post the issue in Slack;
think of it as asking a question in a classroom.
Include any screen shots, screen recordings, etc.
you think might help with solving the problem.



We encourage classmates to help each other (**peer learning**), if you know the answer to another student's issue, please do respond.

Ethos

- **Self-directed learning** outside of lectures / labs.
- Inquisitive and motivated.
- Help your **peers (use #Slack!)**.
- **Engagement** and staying current with the module.
- All work submitted must be **your own work**.
 - all code/approaches given in the module by us can be re-used / re-purposed in your assignments.

Introduction to Processing



What is Processing?



Processing is a
programming language, development environment, and online community
...can be used to develop static or interactive online material
and data visualisations.
...is often used by visual artists.
...produces visual and interactive representations of programming code.

What is Processing?



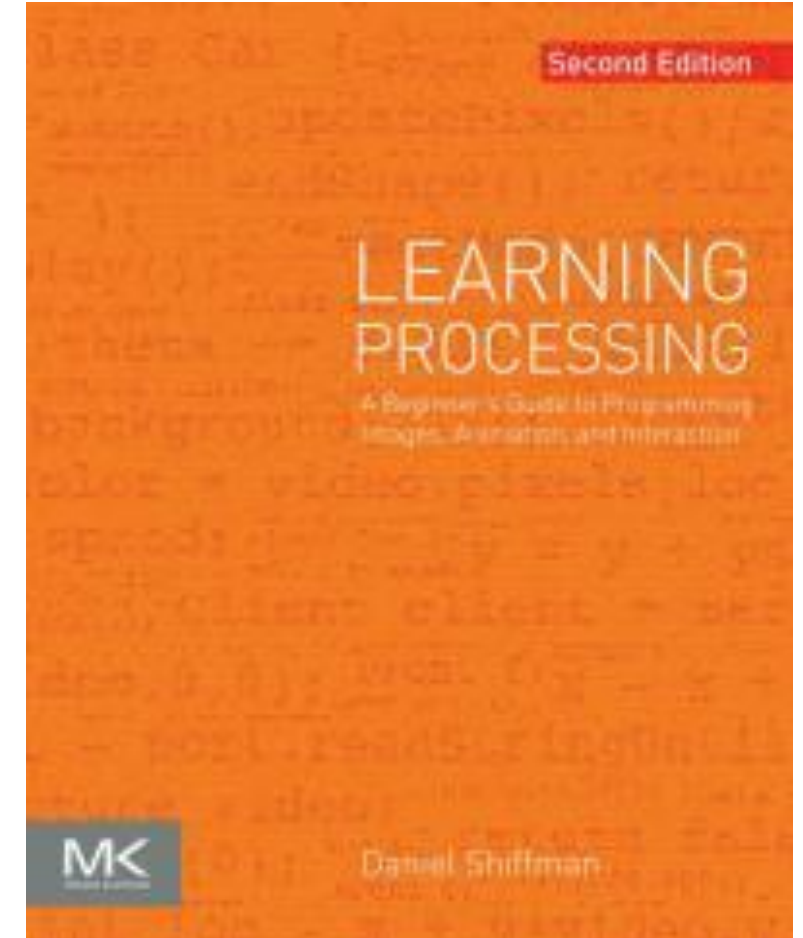
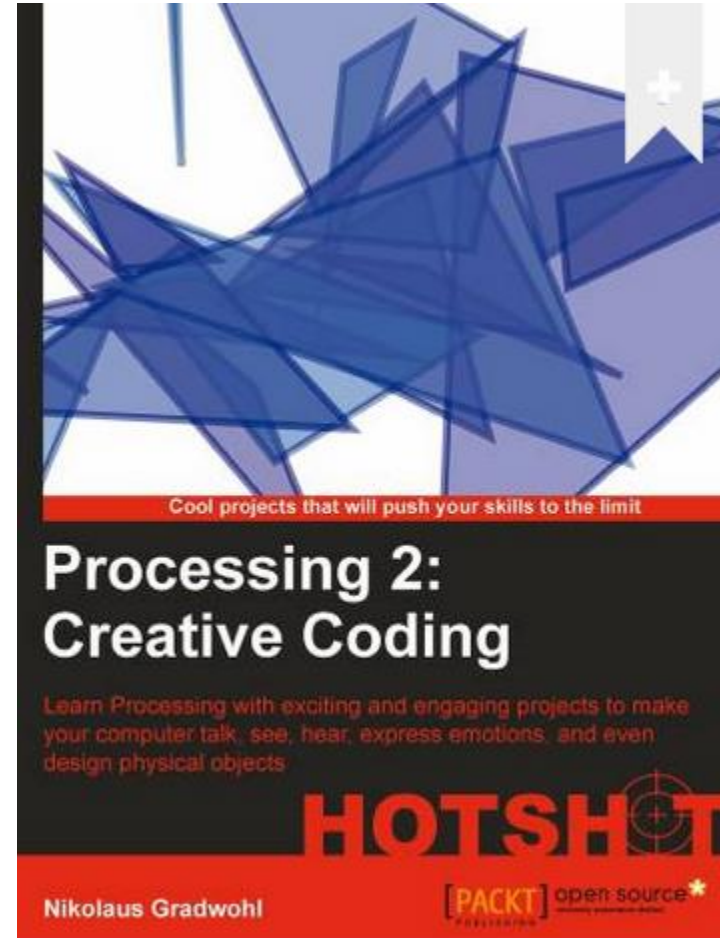
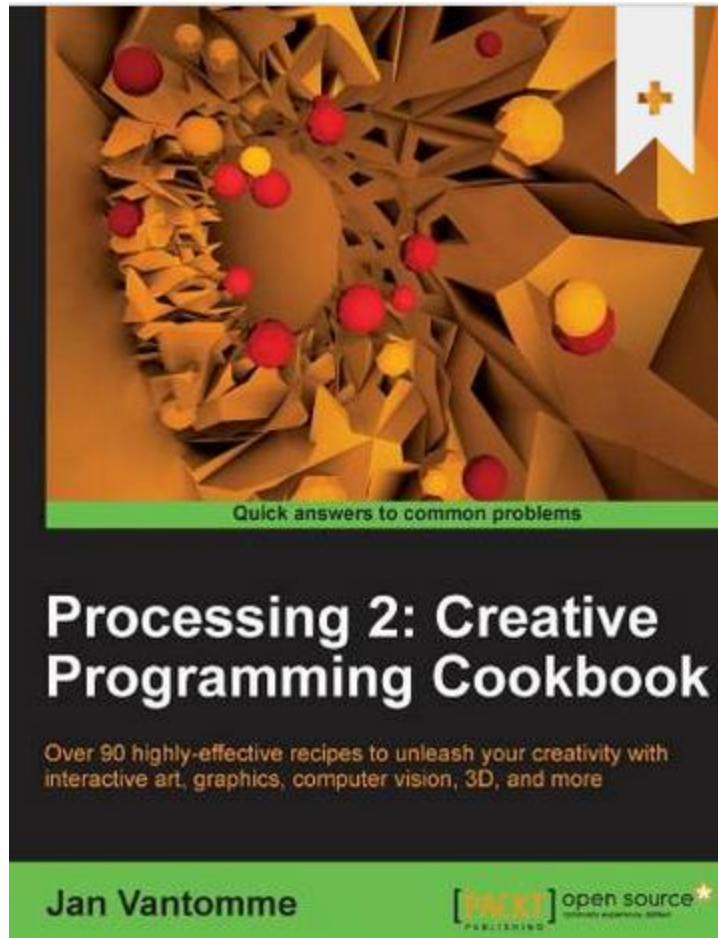
- Different programming languages can be used with Processing e.g. :
 - **Java**: ver 4 uses Java 17, ver 3 uses Java 8.
 - **JavaScript** (p5.js)
 - **Python**
- It can be used on different platforms :
 - Windows, OSX, **Linux** and now **Android**

Why are we using Processing?

*Processing is increasingly used
to teach computer
programming fundamentals
(<https://processing.org/overview/>)*

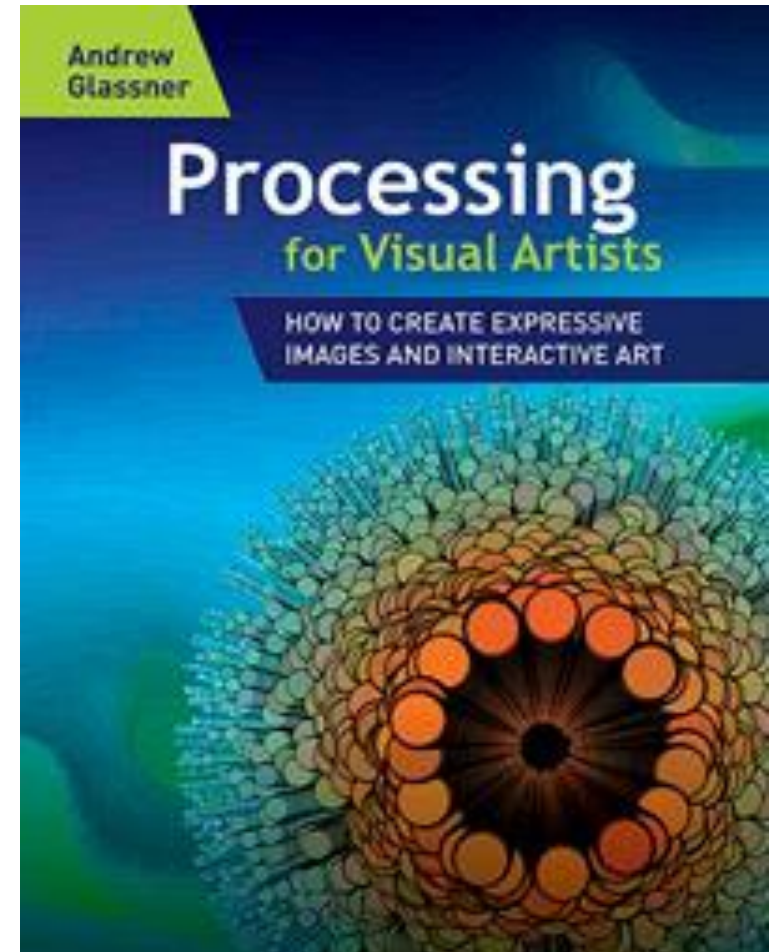
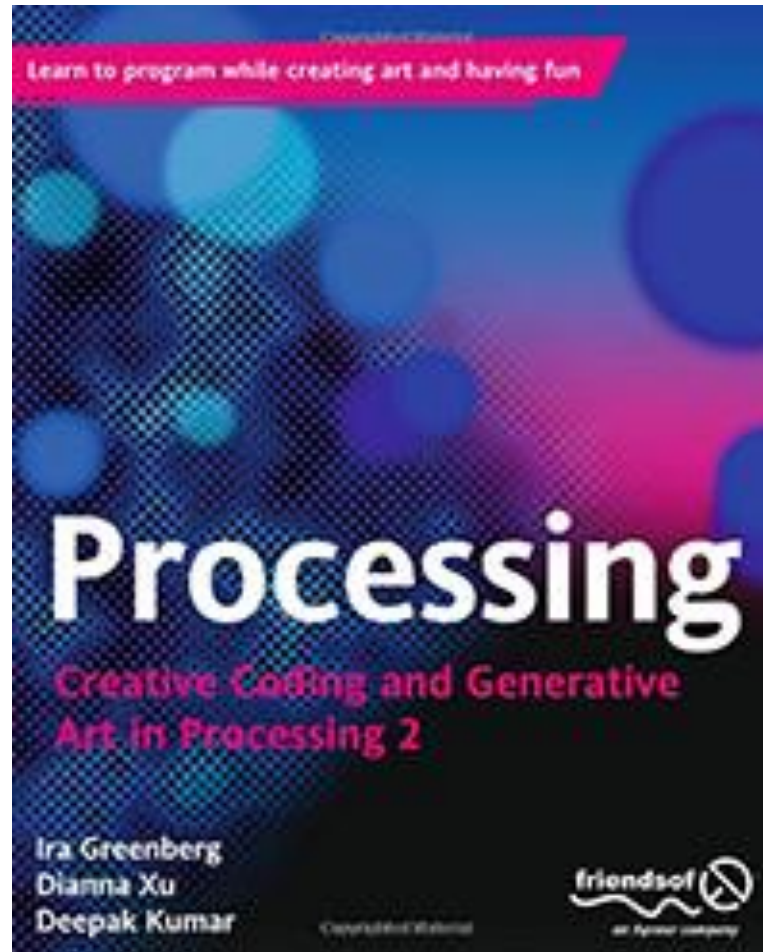
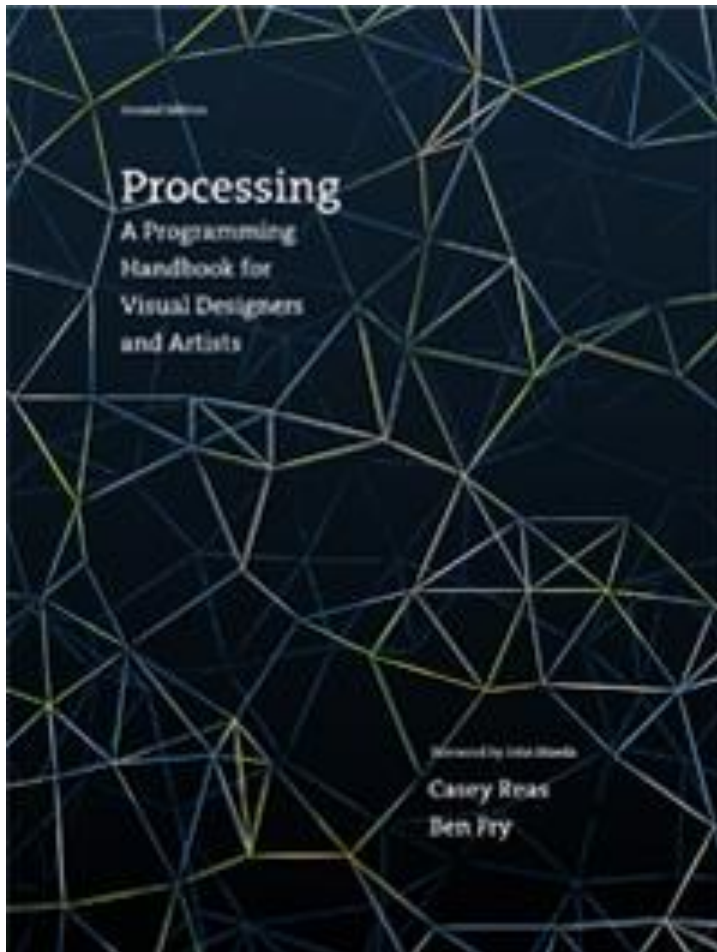
Some eBooks in WIT library

<https://library.wit.ie/Resources/ebooks>



Processing Books

<https://processing.org/books/>



Questions?

