Useful Coding Resources

Learning Processing

- Tutorials at Processing.org http://processing.org/tutorials
  - These are word-heavy tutorials that explain a lot of basic and useful functions
- Creative Programming tutorials http://funprogramming.org
  - These excellent videos (of which there are more than 100) range from introductions for the novice to demonstrations of weird and interesting things
- Nature of Code: http://natureofcode.com/book
  - Assumes little familiarity and has very tutorials on a range of topics suitable for physics and other natural simulations
- CodedSteele tutorials: http://www.youtube.com/user/hannemannj
  - A series of video tutorials covering a few useful techniques
- Processing reference: http://processing.org/reference
  - You will find yourself here every time you forget how to use a particular function!
- Examples within the Processing Development Environment itself

Other code-learning

- Hour of Code: http://code.org/learn
  - Many different introductory activities and pathways into coding
- Scratch: http://scratch.mit.edu/
  - A visual programming language where programs are constructed by dragging blocks and puzzle pieces into place.
- App Inventor: http://appinventor.mit.edu/explore/
  - A similar style to Scratch, aimed at making apps for Android devices
- Codecademy: http://codecademy.org
  - online, interactive tutorials for a variety of languages.

Sources of inspiration

- Bees and Bombs: http://beesandbombs.tumblr.com
  - GIF animations created by a physicist using Processing
- Project Euler: http://projecteuler.net
  - A series of computational mathematics challenges

Processing tips

- Don't forget that you can resize the window!
- Colour picker (**Tools -> Color Selector**): gives you RGB and hex codes for colours
- Autoformat (Ctrl-T or Cmd-T): does a pretty good job of neatening up your code for easier reading
- Tweak mode (**mode menu -> Add Mode**): allows adjustment of coded values while program is running
- Processing's social media:
  - Twitter (https://twitter.com/processingOrg) and
  - Facebook (https://www.facebook.com/page.processing)

Github

Github is supremely useful for sharing code, collaborating and version control.

- Github itself: http://github.com
- Tristan's repository: http://github.com/tristanmiller