Processing Tutorials

Tutorial 1
Introduction to Processing

- Processing is a programming language, development environment, and online community.
- It is initially created to serve as a software sketchbook and to teach computer programming fundamentals within a visual context.
- Website: www.processing.org or processing.org
Download Processing

◊ V 2.2.1 (19 May 2014)
  ◊ Windows 64/32-bit
  ◊ Linux 64/32-bit
  ◊ Mac OS X

Download Processing. Please consider making a donation to the Processing Foundation before downloading the software.

Processing is open source, free software. All donations fund the Processing Foundation, a nonprofit organization devoted to advancing the role of programming within the visual arts through developing Processing.

- No Donation
- $10
- $25
- $50
- $100
- $ [ ]

Donate & Download

◊ Download website: www.processing.org/download/
◊ http://sse.tongji.edu.cn/linzhang/ADIP15/ADIP.htm
Processing Development Environment

- PDE consists of a text editor, a message area, a text console, tabs for managing files, a toolbar with buttons for common actions, and a series of menus.
Tool Bar Buttons

- Run
- Stop
- New
- Open
- Save
- Export
Sketches and Sketchbook

- All Processing projects are called sketches.
- Each sketch has its own folder.
- The main file for each sketch has the same name as the folder and is found inside.

Don’t forget to save your sketches first!

- Add other resources (fonts or images) into current project
  - “Sketch” menu → "Add File..."
  - A “data” folder will be created.
- All images, fonts, sounds, and other data files loaded in the sketch must be in “data” folder.
Adding Libraries

✧ Add contributed libraries (e.g. OpenCV library) manually
  ✧ “File” → “Preferences”: find your sketchbook location. E.g.:
    “C:\Users\Ying Shen\Documents\Processing”
  ✧ Open “C:\Users\Ying Shen\Documents\Processing\libraries”
  ✧ Copy “opencv_processing.zip” into the libraries folder
    ✧ You will need to create the libraries folder if this is your first contributed library.
  ✧ Unzip “opencv_processing.zip” in the libraries folder.

✧ Other contributed libraries can be found here: processing.org/reference-libraries/
Processing Reference and Examples

- https://processing.org/reference/
- https://processing.org/examples/