

Creative Coding and Making

by Aven

Week 01 (Sep. 5th)

Lecture:

Introduction/课程简介

Lecture:

Programming: Processing & Drawing/编程: Processing数字绘画

Lab:

Processing Drawing

Week 02 (Sep.12th)

Lecture:

Animation & Variables / 动画&变量

Lab:

Processing animation / 工作营:Processing 动画设计

Week 03 (Sep.19th)

Lecture:

Conditionals,Interaction&Functions/条件语句, 函数, 交互逻辑

Lab:

live coding

Week 04(Sep.26th)

Lecture:

Mouse & Keyboard Interaction/键盘鼠标交互

Lab:

live coding

Week 05(National holiday, no class)

Week 06(Oct.10th)

Lecture:

Array 数组

Lecture:

Object 对象

Week 07(Oct. 17th)

Lecture:

Images & Audio 图像&声音

Week 08(Oct. 24th)

Lecture:

Video&Camera tracking/视频&摄像头捕捉

Lab:

live coding

Week 09(Oct. 31st)

Lecture:

Motion tracking, Leap motion&Kinect/动作捕捉

Lab:

live coding

Week 10 (Nov. 7th)

Lecture:

Electricity, Circuits & Electrical Components/电子元器件, 电路, 电学原理

Lecture:

Micro controllers & Arduino/微控制器/单片机, Arduino

Lab:

Light up an LED点亮LED

Week 11 (Nov. 14th)

Lecture:

Digital & Analog Inputs & Outputs / 数字&模拟信号 输入&输出

Lab:

Play around with sensors/玩转感应器

Week 12 (Nov. 21st)

Lecture:

Controlling High Current Loads 控制交流电

Lab:

live coding

Week 13 (Nov. 28th)

Lecture:

Communication Btw Processing & Arduino/交互通信

Lab:

live coding

Week 14 (TBA)

Workshop: Sensors& Serial Communication/感应器&串口通信工作坊

Week 15 (no Lecture on Dec 12th, Visit IMA show, TBA)

Week 16(Dec. 19th)

Final workshop (Flexible)