Extended Syllabus (2014 1st Semester)

Course Title	Digital Media Art Workshop	Course Number	ANT3008
Credit	3	Enrollment Eligibility	2, 3, 4
Class Time	Mon 15:00~16:15, Wed 16:30~17:45	Classroom	AS111

	Name: Hyunkyung (Haru) Ji	Homepage: http://jiharu.github.io/ant3008/
Instructor's	E-mail: Ji, H <haruoneday@gmail.com></haruoneday@gmail.com>	Telephone:
Photo	Office: X 407 Office Hours: Fri (14:00~18:00) will be set up by mail.	

I. Course Overview

1. Description

The goal of this class is for students to understand theoretical aspects and important concepts in the digital media art field and to learn how to create visual and audio expressions through programming, using one of the most widely used media arts tools today: Processing. Processing is designed for artists to create computational art using algorithmic techniques. The class starts at beginner level and will end at an intermediate level and students will work in collaboration while joining multiple teams (at least two each).

Along with small assignments and team presentations during the class, for evaluation, students will submit their research and multimedia project expressing their open-ended creative exploration.

2. Prerequisites

Nothing but willing motivation and an open-minded perspective.

3. Course Format (%)

Lecture	Discussion	Experiment/Practicum	Field study	Presentations	Other
30 %	20 %	30 %	%	20 %	%

4. Evaluation (%)

mid-term Project	Final exam	Quiz	Presentations	Final Projects	Assignments	Participation	Other
20 %	%	10 %	%	30 %	30 %	10 %	%

II. Course Objectives





Students will learn:

- 1) What are important issues and historical events in the Digital Media Art field.
- 2) What is computational art, and what are its structure and components.
- 3) What to express: gain good understanding and inspiration of digital media.
- 3) How to use Processing and how to create visual and audio systems and art (expression).

Creating and expressing artistic intentions with sensory data with computers (computational arts) asks students for a very strong interdisciplinarity (especially between liberal arts, science and engineering) and an open-minded attitude.

III. Course Format

(* In detail)

The class will consist of theory and practice. Parts of the classes will be lecture-based, drawing upon the structure of our subject using presentations (30%), while other parts will take a workshop format using computer software (30%). Students will also contribute to the class by presenting team research and practice (20%). The remainder will be discussion (20%).

Students will share their homework through the Openprocessing website - (http://www.openprocessing.org/classroom/3620).

Questions and discussion are encouraged during the class time.

IV. Course Requirements and Grading Criteria

- 1) Small assignments to evaluate how students follow the class topics (30%).

 (When you submit, please name your assignment as the following format: yourschoolid name date.extension)
- 2) Mid-term: team presentation on the research topic (20%) and quiz (10%).
- 3) Final-term: project (30%).

Participation and collaboration will also be counted (10%).

V. Course Policies

Using the software:

1) Processing is an open, cross-platform software. Please download and install from: http://processing.org/

Online materials: class notes (http://jiharu.github.io/ant3008/) & students portfolio (http://www.openprocessing.org/classroom/3620)

- Regular updates of your work on time is important, and will be reflected to the grade.
- 2) Support for the disabled: seat support/ Extensions on homework's and project submissions/ TA support etc.

VI. Materials and References





Reading: The Language of New Media Chap 1, Lev Manovich, The MIT press, 2001

Understanding Media Chap 1, Marchall McLuhan, The MIT press

The New Media Reader, Edited by Wardrip-Fruin and Nick Montfort, The MIT press, 2003

Multimedia: From Wagner to Virtual Reality, W.W. Norton & Company, 2001

미디어아트-예술의 최전선, 휴머니스트, 2009

영상기계와 예술, 현대미학사, 1996

Processing: http://processing.org/

Getting Started with Processing

Casey Reas and Ben Fry.

Published June 2010, O'Reilly Media. 208 pages. Paperback.

Learning Processing: A Beginner's Guide to Programming Images, Animation, and Interaction

Daniel Shiffman.

Published August 2008, Morgan Kaufmann. 450 pages. Paperback.

Help, tutorial, reference file in the Processing software / website

VII. Course Schedule

(* Subject to change)

	Learning Objectives	Introduce class & format, multimedia theory, start Processing.	
	Topics	Introducing class format and get ready for the class.	
Week 1	Class Work (Methods)	Survey Lecture/Discussion with presentation materials & practice	
	Materials (Required Readings)	The Language of New Media Getting Started with Processing / Learning Processing	
	Assignments	Assignments will be announced on the class website	
	Learning Objectives	Multimedia theory, Processing GUI and starting the first drawing	
	Topics	What is new media? Processing: Hello, world / starting the code & drawing	
Week 2	Class Work (Methods)	Lecture/Discussion with presentation materials & practice	
	Materials (Required Readings)	Understanding Media Getting Started with Processing / Learning Processing	
	Assignments	Assignments will be announced on the class website	
Week 3	Learning Objectives	Learning basic grammar of Processing	





	Topics	Is media the message? Processing: Variables/Response				
	Class Work (Methods)	Lecture/Discussion with presentation materials & practice				
	Materials (Required Readings)	Multimedia: From Wagner to Virtual Reality Getting Started with Processing / Learning Processing				
	Assignments	Assignments will be announced on the class website				
	Learning Objectives	Learning basic grammar to use Processing				
	Topics	Multimedia theory Processing: Media/Motion				
Week 4	Class Work (Methods)	Team presentation I Lecture/Discussion with presentation materials & practice				
	Materials (Required Readings)	Multimedia: From Wagner to Virtual Reality Getting Started with Processing / Learning Processing				
	Assignments	Assignments will be announced on the class website				
	Learning Objectives	Understanding how to use functions & objects in Processing				
	Topics	Multimedia theory Processing: Functions & Objects				
Week 5	Class Work (Methods)	Team presentation II Lecture/Discussion with presentation materials & practice				
	Materials (Required Readings)	Multimedia: From Wagner to Virtual Reality Getting Started with Processing / Learning Processing				
	Assignments	Assignments will be announced on the class website				
Week 6	Learning Objectives	Understanding how to use arrays in Processing				
	Topics	Multimedia theory Processing: Arrays				
	Class Work (Methods)	Team presentation III Lecture/Discussion with presentation materials & practice				
	Materials (Required Readings)	The New Media Reader Getting Started with Processing / Learning Processing				





	Assignments	Assignments will be announced on the class website			
Week 7	Learning Objectives	Get inspired!			
	Topics	Multimedia practice Processing: Project design (finding good examples)			
	Class Work (Methods)	Team presentation IV Lecture/Discussion with presentation materials & practice			
	Materials (Required Readings)	The New Media Reader http://processing.org/exhibition/ http://processing.org/learning/topics/ etc.			
	Assignments	Assignments will be announced on the class website			
	Learning Objectives	Mid-term			
	Topics	Submit and present the team research project			
Week 8	Class Work (Methods)	Feedback and evaluation			
	Materials (Required Readings)				
	Assignments				
	Learning Objectives	Understanding how to use classes in Processing			
	Topics	Media Art theory Processing: Classes			
Week 9	Class Work (Methods)	Lecture/Discussion with presentation materials & practice			
	Materials (Required Readings)	The New Media Reader Getting Started with Processing / Learning Processing			
	Assignments	Assignments will be announced on the class website			
Week 10	Learning Objectives	Understanding how to use classes in Processing			
	Topics	Media Art theory Processing: Classes			





	Class Work (Methods)	Lecture/Discussion with presentation materials & practice				
	Materials (Required Readings)	The New Media Reader Getting Started with Processing / Learning Processing				
	Assignments	Assignments will be announced on the class website				
	Learning Objectives	Extending Processing: Physics I				
	Topics	Media Art theory Processing: Extending				
Week 11	Class Work (Methods)	Team presentation II Lecture/Discussion with presentation materials & practice				
	Materials (Required Readings)	The New Media Reader The Nature of Code				
	Assignments	Assignments will be announced on the class website				
	Learning Objectives	Extending Processing: Physics II				
	Topics	Media Art theory Processing: Extending				
Week 12	Class Work (Methods)	Team presentation III Lecture/Discussion with presentation materials & practice				
	Materials (Required Readings)	The New Media Reader The Nature of Code				
	Assignments	Assignments will be announced on the class website				
	Learning Objectives	Media Art theory Extending Processing: Physics III				
	Topics	Processing: Extending				
Week 13	Class Work (Methods)	Team presentation IV Lecture/Discussion with presentation materials & practice				
	Materials (Required Readings)	The Nature of Code				
	Assignments	Assignments will be announced on the class website				





	Learning Objectives	Extending Processing: extensions (OSC, OpenGL, etc), Processing.js, Java, physical computing			
	Topics	Media Art theory Processing: Extending			
Week 14	Class Work (Methods)	Team presentation I Lecture/Discussion with presentation materials & practice			
	Materials (Required Readings)	The New Media Reader Getting Started with Processing / Learning Processing			
	Assignments	Assignments will be announced on the class website			
	Learning Objectives	Final project work			
	Topics	Sharing good examples & information, progress and problem solving			
Week 15	Class Work (Methods)	Group discussion and class feedback			
	Materials (Required Readings)				
	Assignments	Assignments will be announced on the class website			
	Learning Objectives	Final-term			
	Topics	Final project presentations			
Week 16	Class Work (Methods)	Feedback and evaluation			
	Materials (Required Readings)				
	Assignments				

VIII. Special Accommodations



