

Creativity & Computation

CC Lecture

Fall 2018

SVEN TRAVIS

LEGEND

-  : Assignments & Homework
-  : Storyboarding / Brainstorming
-  : Artist / Designer to look up
-  : Events & prospects to explore

27 Aug 2018

Today's Artist/Designer : Makoto Azuma

↳ Botanical Space Flight
↳ Iced flowers

§ About CC

↳ started in 1977.



§

Suen's RA ship

↳ Mighty Spicy Collective

READING ASSIGNMENT

Books : Oliver Sacks' : The Mind's Eye

Vikram Chandra : Geek Sublime

Nick Bostrom : Superintelligence

Charles Petzold : Code

Naomi Oreskes & Conway : Collapse of Western Civilization

Cixin Liu : Three Body Problem

Amazon has purchased
& would make it a TV series
(\$ 1B)

Other Imp. sources : The New York Times & The Economist

CC Lab Topics

- * → Arduino
- Javascript (1-2 weeks)
- * → Unity (last 6 weeks)
- OpenFrameworks (4-5 weeks)



Reading Books

↳ Will be shared by Sven

LECTURE ASSIGNMENT

- 1st: Watch movie: CitizenFour
 - ↳ by Laura Poitras (Graduate: TNS: School of Media St.)
- 2nd: Read: Collapse of Western Civilization
The Three Body Problem
- 3rd: Write: 1500 word paper on "Technology & Me"
 - ↳ Reference the book & the film
 - ↳ Due Sep 15th, 11:59 pm
 - ↳ This would be re-written at the end of the semester

Today's 2nd Artist/Designer: Zach Lieberman
↳ Founder of OpenFrameworks

17 Sept. 2018

★ General Info

↳ lockers to be assigned this week.



→ Jasmine : DT Program Admin
AMT Office

2W 13th St. : 4th floor

→ CC Lab Tutoring : Starts this week (D12)

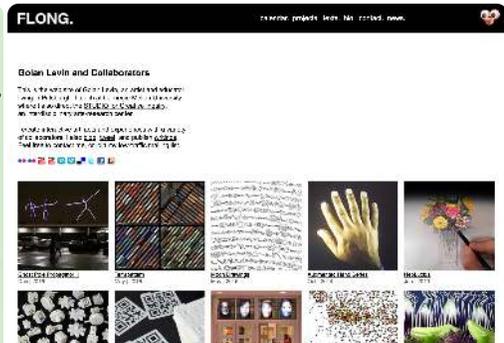
★ Golan Levin : flog.com

↳ Studied at MIT, Parsons, CMU.

↳ Creator of lists - likes lists

↳ His work & a list of his other collab. on his website.

↳ Untitled Digital Art (Augmented Hand Scenes)



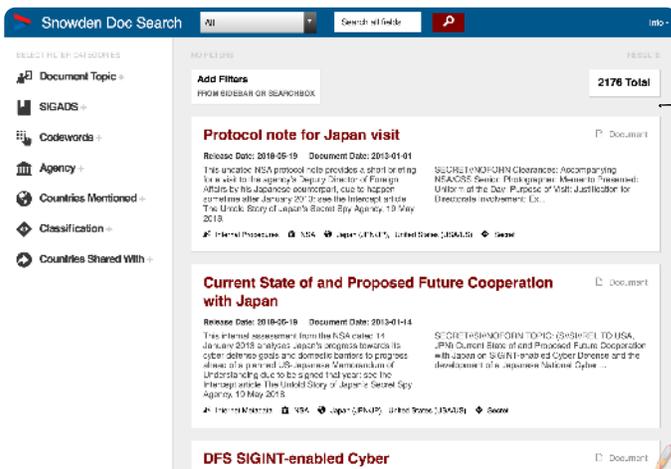
★ Visit : Digital Media Lab (Brooklyn) - CMU's work

Discussion on CitizenFour

★ Work with VPN : eg. Express VPN : Buy one

VPN

- ↳ Works through ML
- ↳ Switch the server automatically when one is blocked.
- ↳ greatfirewallofchina.org
- ↳ whether a website is blocked in China.

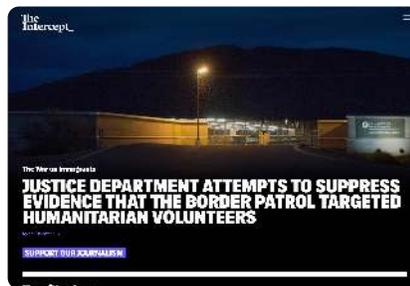


Docs of Snowden

★ Online Journalism
↓
The Intercept

★ Read Guardian - Trustworthy

★ Laura : Snowden contacted her.



§ Network & Surveillance

★ Dwight Eisenhower

↳ Supreme commander of Allied forces in WW2.

↳ Built USA interstate system - roads

↳ In today's world - China is bringing that connection.

★ ATT Bell Labs

↳ Network center in Jersey - primary research center in the early days. - Now, Nokia Bell Labs.

★ Cell phone connections are the basis for tracking.

★ Internet was invented in DARPA - military

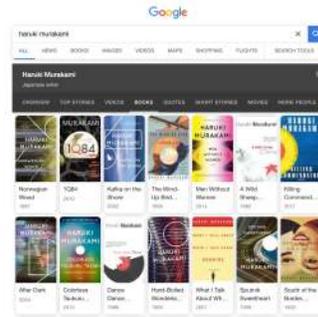
↳ In an academic setting - Berkeley

★ Messages sent through the internet goes in the form of packets

↳ these packets go through different routes & collect at the destination.

☆ Haruki Murakami

- ↳ Japanese writer
- ↳ Nominated for Nobel : Rejected it
- ↳ Most recent : 10, 84, Colorless Tsukuru
Tasaki
- ↳ Interesting Film : Norwegian Wood.
- ↳ Most famous : The wind-up bird
Chronicle
: Kafka on the shore.
- ↳ A game made on Murakami's
work : Memoranda



24 Sept. 2018

§ DT Motion Jam — On Motion Capture Lab
↳ New dates : Oct 12-14, 2018

§ **opentrameworks** weekend workshop
↳ Sign-up — classes on Sat
— 1 credit course

§ Talk to your Faculty Advisor : David Carroll

§ **Graduate Student Travel Fund**

- ↳ Support travel expense related to research — conference etc.
- ↳ Sign-up form will be sent
- ↳ Max grant : \$1000/-

★ Evan Roth

↳ DT graduate

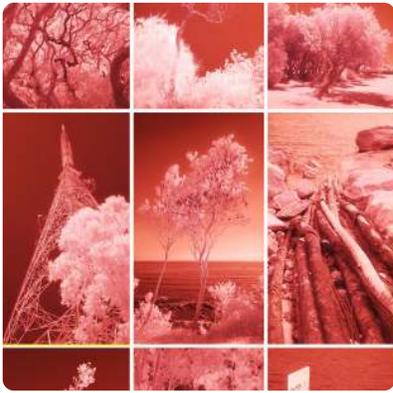
○ Winner of National Design Award

↳ Cooper Hewitt



Check
it
out





→ Doing an internet trail
& taking shots in IR
at the nodes
↳ eg. where cable connections
join

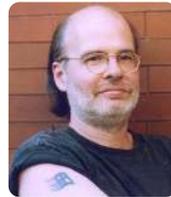


★ About Code

- Compiled languages } Once you run it, it's compiled. You can't see the code. Like, making an app
 - ↳ C++, Java
- Interpreted languages - scripting languages
 - ↳ HTML, Python, Javascript, Clojure } You run the code directly. You don't need to compile.
 - ↳ As machines are getting powerful, it's easier to run the code directly, no compilation needed.
 - ↳ Platform independent

★ Charles Petzold

↳ Worked in Microsoft mostly.



★ Finish reading : CODE : Next week

↳ Charles Petzold

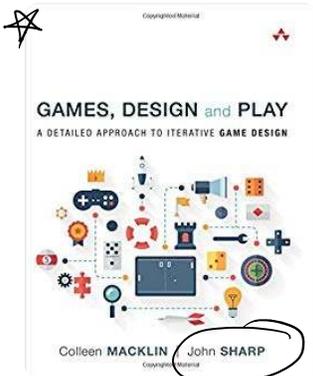
* John Paul Graude
↳ Fashion designer



* Design process

↳ Adaptive vs Predictive Process

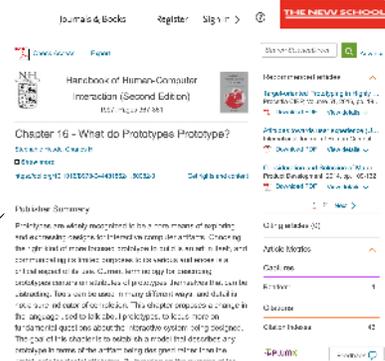
↳ Waterfall process



Prototype

Thinking about their relevance.

Good read



Book by Houde & Hill

* The idea of using a prototype is to get clarity

Paper
Physical
Playable

↳ Talks of diff^t types of prototypes

- o look & feel
- o Implementⁿ

* Idea of prototypes

↳ Share your failures. It's a prototype. Don't try to make it a finished product.

01 Oct. 2018

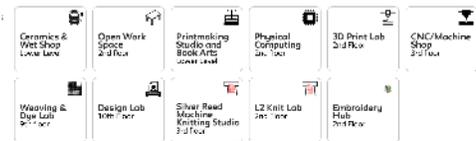
Resources at TNS

★ ERC : Equipment Resource Center

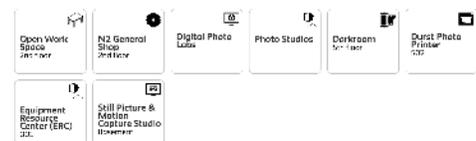
↳ 66th & 5th : Basement

↳ VR equipment, photography equipment
↳ Digital C printer - best quality print

Sheila C. Johnson Design Center, 2 W 13th St



Sheila C. Johnson Design Center, 66 5th Ave



Parsons East Building, 25 E 13th St



Industrial Center, 62 E 8th Ave

↳ resources.parsons.edu

★ Graphics lab — best printing place

↳ 2W 13th — 10th floor

↳ Sticker printers, vinyl cutters

★ Metal shop, wood shop & laser lab

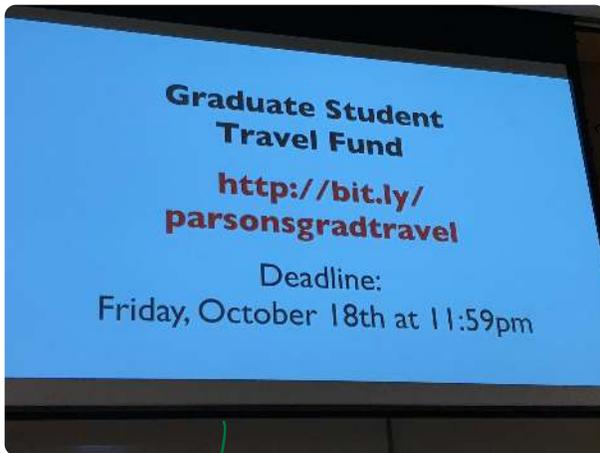
↳ 25 E 13

★ Do 3 shop/equipment trainings by semester end.

§ Visiting professor : Fan Xiang : Machine Learning class

↳ Course : Radical Data Viz - Today at 3pm, D1204 B

§ Graduate Student Travel Fund.



→ Only offering for the **ENTIRE** year.

- Conferences, research travel, paper presentation, anything you want to attend
- Grant up to \$1000 (avg \$500 - 750)
- Does not cover class related submissions
 - ↳ Berlin - Paris, India, etc.

§ Tech & Performance

- ↳ Collab by Ethan Sherman
- ↳ Done with the drama school
- ↳ Register along with Spring Semester class
- ↳ Week long — Jan 2018.

§ Motion Jam : **Cancelled.**

OpenFrameworks Workshop

- ↳ Chris Lee & Andrew Carters
- ↳ 3 hr session each saturday for 4 weeks
- ↳ Sign up needed.
- ↳ Time : Sat 1-4 pm #

NY Tech Meetups

- ↳ Great events & projects
- ↳ Internship opportunities



NYtech.org

Upcoming Events:

NY Tech Alliance Presents: Techsters NYC Pitch Night

October 04 @ 08:15 PM
SVA Theatre

[More Info](#)

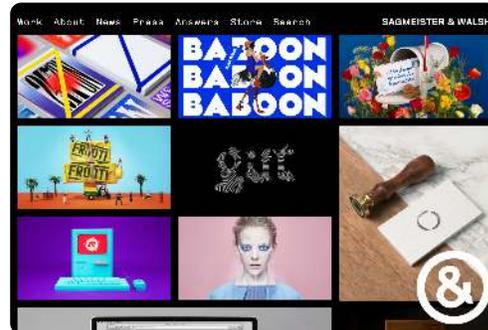
October 2018 NY Tech Meetup

October 08 @ 08:30 PM
AppNexus Razzle Dazzle Room

[More Info](#)

[See All NYTA Events](#)

- ↳ Stefan Sagmeister & Walsh
- ↳ lives in NYC
- ↳ Graphic Designer
- ↳ Good at Typography
- ↳ Physical Installation

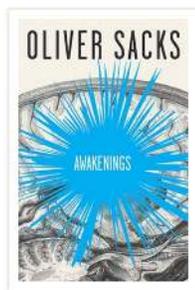
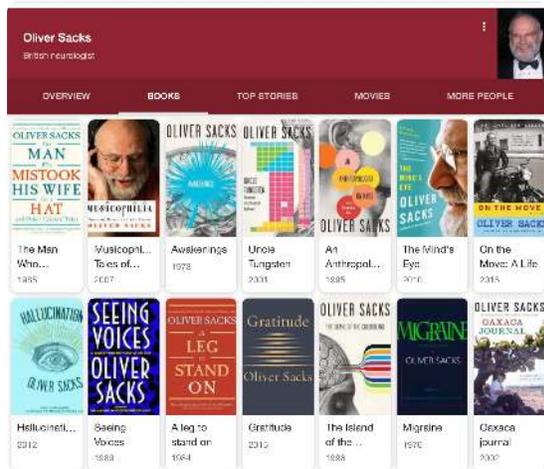


sagmeisterwalsh.com

★ Jessica Walsh
↳ Graphic Designer from RISD
↳ likeknowslike.com



★ Oliver Sacks
↳ Neurologist, Doctor, Writer
↳ Scientific
↳ Most famous: An Anthropologist on Mars, The Awakenings
↳ Work is a series of essays



Awakenings

Publication date: 1973, revised edition 1990

The classic account of survivors of the encephalitic lethargica and their return to the world after decades of "sleep." This book was the inspiration for the 1990 film starring Robert De Niro and Robin Williams as Dr. Sacks.

Buy this book:

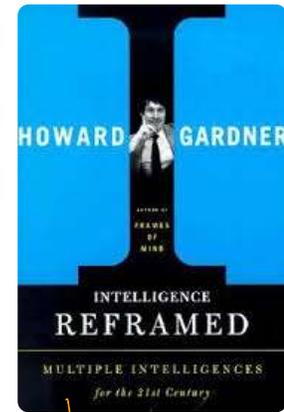
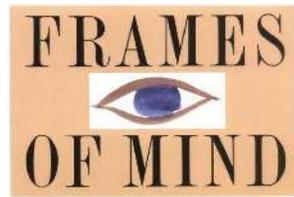
[Amazon](#) | [Barnes & Noble](#) | [Powells](#)

★ Read: The Mind's Eye: Oliver Sacks

↳ How we see things in our brain.

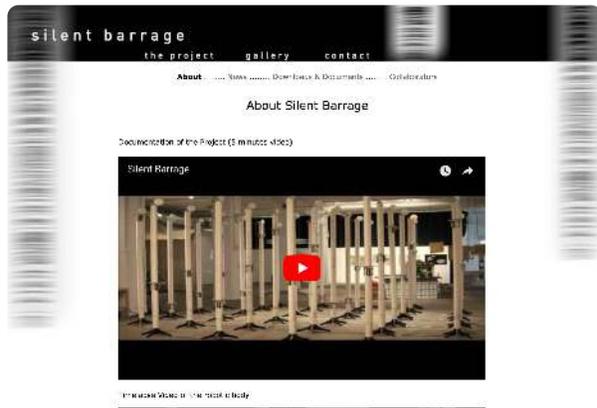
★ Howard Gardner

- ↳ Theory of multiple intelligences
- ↳ Works on 8 primary forms of intelligences
- ↳ Works on Project Zero at Harvard



★ Symbiotica Biological Arts

- ↳ Silent Barrage.
 - ↳ Making artificial brain for the robot
 - ↳ In-vitro culture & online connectivity
- ↳ University of Western Australia
- ↳ Founded by Jonat Zurr



Combining Arts & Science & actually making things
↳ Biodesign & Bioart

★ Local version of Symbiotica
↳ Genspace.



↳ Experiments with Genetics.

★ Biofabricate Conference

- ↳ New lab
- ↳ @ Brooklyn Navy Yard
- ↳ Dec 13
- ↳ Works on Biotech & Arts.

★ Biodesign Challenge

- ↳ Done with Genspace.
- ↳ PPT at MoMA
- ↳ 25 universities across the world
- ↳ Collab Studio, Spring 2019.



The Biodesign Challenge offers art and design students the opportunity to envision future applications of biotechnology.

08 Oct. 2018

§ Spring Registration : Nov 1st week

↳ Info/review : Oct 22nd.

* DT Study Tutoring : everyday on D12.

* Visit Learning Center to take tutorials on English & Code.
↳ 66 W - 12th (6th floor)

° If you are late at returning stuff to Equipment Resource Center (ERC), you are fined (non refundable).

— x —

* Talking Heads → David Byrne

↳ A band (1975-1990s)

↳ Big Suit video

↳ Bicycle Diaries (Book)

↳ A Musician

↳ Installation : Playing the Building



* Next Assignment : Internship

↳ Create 3 lists of 10

↳ ① : 10 projects you like

↳ ② : Who made them?
↳ the projects

↳ ③ : How to contact them?



↳ Six degrees of separation : get in touch with people where you want to work.

↳ Look at non-profits, NGOs, Arts organizations, individual artists and designers.

↳ Find 10 projects that you like —

↳ Topics : blockchain, climate change, disability

↳ Due : Oct 15th → ✉ : celecture2018@gmail.com



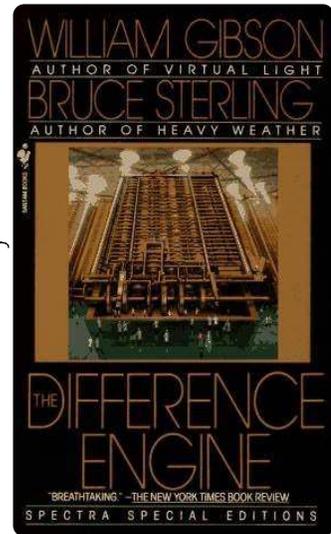
↳ * Book written after Steve Jobs was fired from Apple.

◦ In class, you would be asked to give a lot of precedents.
↳ Consider the works of Steve Jobs & Bill Gates for reference.



→ A fashion style inspired by Charles Babbage's difference engine.

A book discussing Babbage's Difference Engine.



* Ada Lovelace
↳ First known computer programmer.

* Weaving machines were the start of computers.
* Herman Holkeith's key punching machine
↳ Set up a company now called IBM.

* Marinus De Nijs
↳ Projects: Speaker detecting people through sonar
↳ RMR



15 Oct. 2018

★ MS2 Faculty Sessions → starting next week

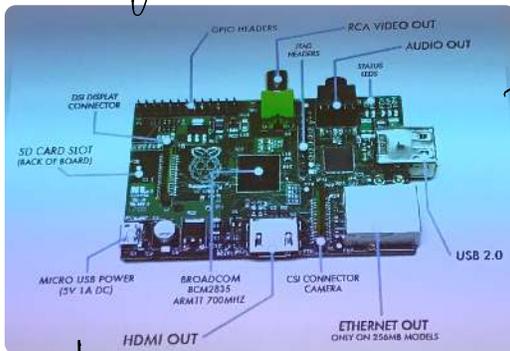
★ Short courses (2 week long)

↳ openFrameworks, Maya 3D & After Effects
↳ Starting this Saturday

Saturday
10/13 & 10/20
12pm-3pm
3pm-6pm
2 weeks

★ Upload a picture of your ID card with stickers
↳ Google Form

★ Raspberry Pi



↳ Runs on Linux
↳ \$60-70

→ Std. platform for doing IoT projects

↳ would be covered in class later this sem.
↳ workshop
↳ Next sem: IoT electives

— x —

✱ Edward Burtynsky
↳ Photographer
↳ Comes from a mine area

EDWARD BURTYNSKY



→ A book & a film on his mining shots



→ Another movie on the shots of water.

ANTHROPOCENE



One more movie on Anthropocene - how humans have impacted the environment permanently.

— x —

§ **Javascript** → most widely used scripting language

- ↳ Primary language around the world - UX, UI
- ↳ Used for real time data processing
- ↳ Created by Brendan Eich in 1995 (Netscape)
 - ↳ Mozilla is what is left of Netscape
- ↳ Javascript got its name from Java. They have no relation to each other.

★ Take a Javascript elective next semester
↳ v. Imp.

§ **openFrameworks**

★ Christine Sugrue

- ↳ Developed (contributed) & maintained openFrameworks
- ↳ Parsons Paris Faculty.

OF about download documentation learning gallery community development
forum alt text coders slack blog donations

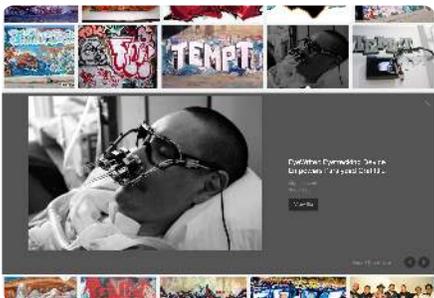


openFrameworks is an open source C++ toolkit for creative coding.

download
Keep the most recent version (0.10.0) and for how the user can be get some information on getting

documentation
Reference for openFrameworks classes, functions and objects. You can also check the [source code](#)

★ Tempt: another openFrameworks project



→ Making a graffiti artist paint again
↳ The Eyewriter

Other platforms similar to openFrameworks

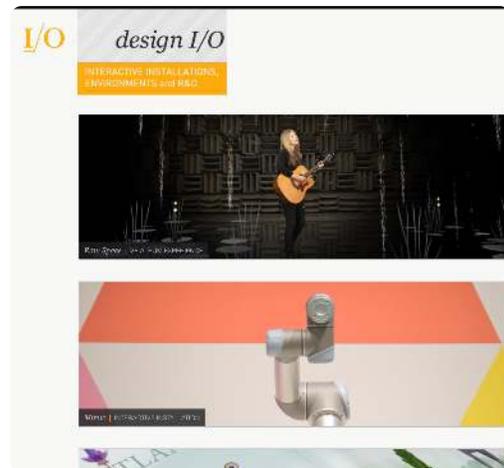
CINDER



openFrameworks & Unity are diff^t tools with diff^t powers.

* Other projects.

Esquire's Augmented Reality Issue Starring Robert Downey Jr. Is Live [VIDEO]



22 Oct. 2018

★ Halloween Parade
↳ Oct 31, 7pm

- Next week: John Sharp's lecture: Creativity & Technology
- Sven: exiting as program director this semester — John Sharp takes up as director MFA&T (from next semester).

★ Spring Semester Course Registration
↳ begins Nov. 1st week

You need 2 academic & 2 collabs at the end of 2 yrs. So, take 1 next sem.

Apply for waitlists

1 major studio = 6 credits
★ 1 academic = 3 credits
1-2 studio electives = 3-6 credits
(suggested) 1 collab = 3 credits

→ Suggested course distribution for registration

Take one.

Total: 15-18 credits

(If not from DT, take from other departments)

↳ Workload would be higher — internships, MS2 (thesis focus)

- You can do **part-time** in the final (4th) semester.
↳ Not recommended

§ SPRING CLASSES (2019)

- Registration: Top 4 choices (as last time)
- MS2 faculties :

MS2:
Melanie Crean (FT)
Mattie Bryce
Ayo Okunseinde
John Sharp (FT)
Amelia Winger-Bearskin
David Carroll (FT)
Mohini Dutta

→ FT: full time

⇒ 7 studios next semester
⇒ less no. of students per class

↳ Discuss with 2nd years to know about the faculty

◦ Electives



Studio electives:
Web Advanced: Javascript
Web Advanced: Javascript APIs
Creative Coding: openFrameworks
Creative Coding: Unity
Physical Computing
Internet of Things

→ • Take Javascript for sure

Studio electives (continued):
Designing for Usability
Narrative and Dynamic Systems
Data Visualization
Data Viz and Info Aesthetics
Storytelling with Data
Machine Learning

→ Game related

→ Data Viz classes

→ Kind of Data Viz related

Studio electives (continued):
 Sound Design
 Motion Graphics: Introduction (2 sections)
 Motion Graphics: Adv Techniques
 Printmaking Grad Studio
 Computational Form
 Ed Tech and Design Thinking

→ Popular + Intense
 → VR related

Academics:
 History of Interaction Design
 Design and Education
 A Holistic User Experience
 New Media Art History
 Dark Data
 Urban Interaction Design

→ Specific to MFADT
 → If you are interested in teaching & educⁿ

Collabs:
 Collab: Augmented Reality
 Collab: Algorave
 Collab: Design for Safaris
 Collab: Tactile Tech for Wearables
 Collab: Motion Capture Studio
 Collab: Tech and Performance (Jan)

→ live coding & performance
 → Harpreet
 → Chen + MFA Textile Design
 → John
 → Starts a week before Spring class

Collabs (continued):
 Collab: Blockchain
 Collab: Projection Mapping (MadMapper)
 Collab: Game Design in Copenhagen
 Collab: Beijing and the Wild Wall
 Collab: VR in India (Ahmedabad)
 Collab: BioDesign Challenge

→ # May be a current elective: Check
 → Map & people
 → Running since 3 yrs + SDM Students
 → Bio Design - Bio art

* Take at least 1 academic & 1 collab for Spring semester

* Dunne & Raby
↳ Great facilities for Speculative Design
↳ Offer a collab kind of course next sem.

* CURRENTS ≠ COLLABS

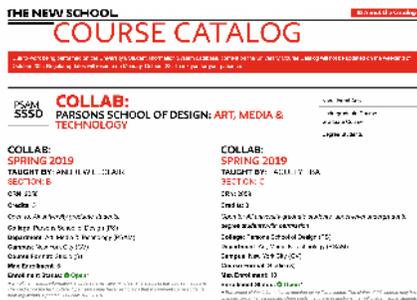
* INDEPENDENT STUDY
↳ Non scheduled course with a full-time faculty member
↳ With a faculty, on a **topic** that isn't being offered
↳ With full-time faculty only

* If we take more than 1 collab, it's considered a studio elective
↳ But, take permission from Quizayra

* If we take more than 2 academic electives, it's considered a normal elective.

* A Seminar Class is a Studio Class — NOT an Academic/Collab

* Check details on TNS website



§ Xu Bing

- ↳ MacArthur Genius Award
- ↳ Artist, Graphic Designer
- ↳ Presently in Beijing
- ↳ Calligrapher



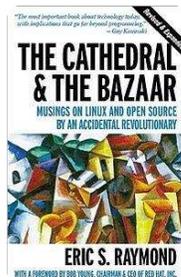
[Lauren Redness &
Ben Catcher have
won it]

§ Linux

- ↳ Raspbian : powers Raspberry Pi
- ↳ Most of IBM Watson runs on Linux

§ Linus Torvalds

↳ Wrote Linux



29 Oct. 2018

A Brief History of Technology ↳ by John Sharp

BC

⋮

AC

BC: Before Computation
AC: After Computation

- Technology is just a fancy word for tool.
 - ↳ Computers are just another kind of tool
 - ↳ Math is a technology of taking measure of the world
- Dice: 6000 yr tech: A device used to create randomness
- Newer technology doesn't always mean better technology
 - ↳ eg: card stack search - removes the form of discovery that we used to have during search directory

- Ada Lovelace
 - ↳ worked with Charles Babbage
 - ↳ realized the potential of computing

People who transformed
the use of tech



- Alan Turing
- Vannevar Bush → thought of a tech like Google.com
- Grace Hopper
- Douglas Engelbart
 - ↳ Invented mouse, GUI

- RNEE was considered the most flexible part to use as a mouse
 - ↳ not the hand

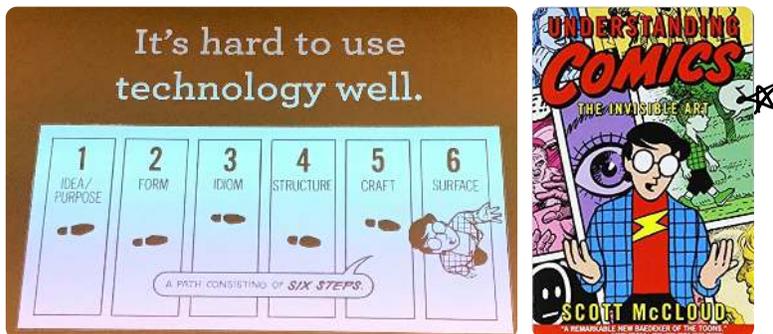
“...thou hast ordered all things in measure and number and weight.”

Western visual art was the pursuit of accurate representation.



→ Jackson Pollock's oil painting

◦ Hip Hop was the fine art of keeping the party going



◦ You learn a lot of technology
↳ It's knowing why you are using it in the first place.

★ Ira Glass

“And if you are just starting out or you are still in this phase, you gotta know its normal and the most important thing you can do is do a lot of work...”

— Ira Glass

→ ∃ gap : what we can do & what we want to do.

Ⓔ About Spring 2019 Registration

- ① Check your A/c → no holds (my.newschool.edu)
- ② "Register" period: Nov 5 - Dec 21, 2018
- ③ Seminar ≠ Academic elective (ignore seminar)
 - ↳ Academic ≡ reading, lecture, writing
- ④ Audit courses
 - ↳ Process: ☑: Quizayoa
 - ↳ Cannot have a waitlist & course must be open
- ⑤ Jan 2 - Feb 4: Add/Drop Classes ←
 - ↳ Jan 2: Waitlist clears ✓
- ⑥ If a course says "Degree Students (with Restrictions)", you must fill a form to register
- ⑦ Primary Source for reference
 - ↳ Courses.newschool.edu & Class Finder (alvin.newschool.edu)
- ⑧ Check NSSR & Media Study Programs — for Academic electives

Pauses on
Dec 21
& reopens
on Jan 2

05 Nov. 2018

kurzweil.ai.net

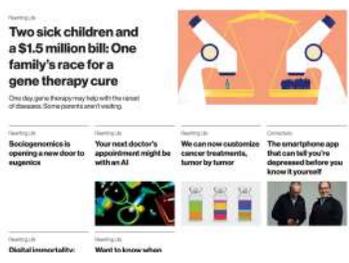
* Ray Kurzweil

- ↳ Director of engineering at Google
- ↳ Inventor of Kurzweil synthesizer at Google
- ↳ Known for his work in AI.
- ↳ Worked on text to speech synthesis
- ↳ Wrote a lot of books
 - ↳ * The age of Spiritual Machines



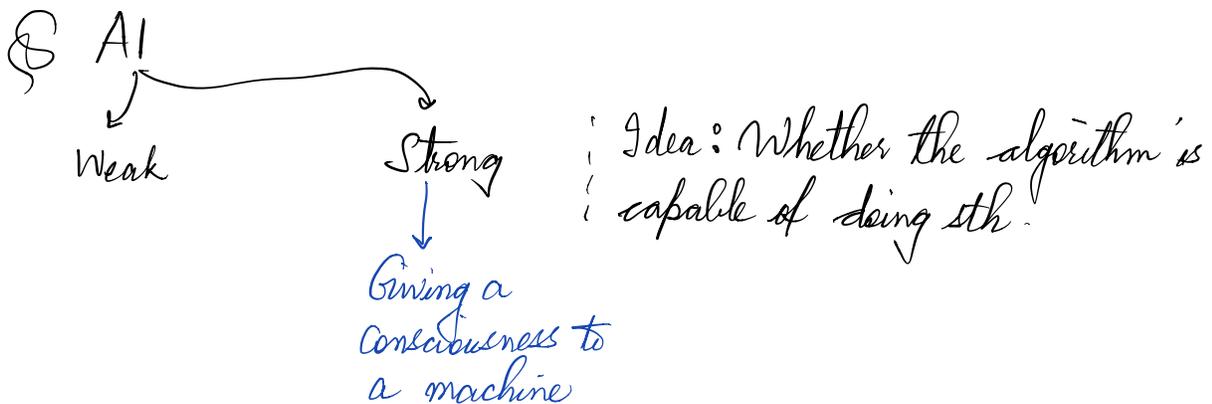
- Facial recognition, pattern recognition — takes immense brain power to do.
- Our brains are not logical — they operate & think differently (Following from the assignment — Instruction Sets for Strangers)
- A recent good book by Ray Kurzweil
 - ↳ The Singularity is Near
- Started a university : Kurzweil University, San Francisco

* Good magazine to read:
MIT Technology Review
(≡ HBR for tech)



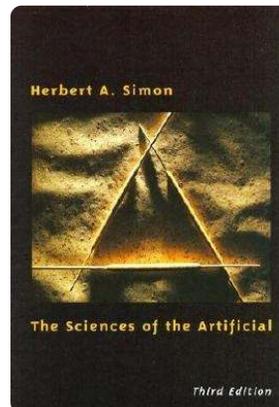
★ JCR Licklider

- ↳ Wrote pieces on the future of computers in the early 1950s
 - ↳ Man-Computer Symbiosis
 - ↳ Intergalactic Network



- ## ★ Alan Turing
- ↳ known as the father of AI
 - ↳ Turing Test, Turing machines

- ## ★ Herbert Simon
- ↳ Famous AI researcher at CMU
 - ↳ Book: The Sciences of the Artificial
 - ↳ logic Theorist → famous AI article



★

▷ Computation & Algorithms



Easy for Computers

vs

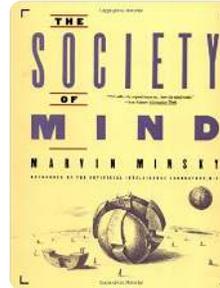
Pattern Recognition



Hard for Computers

★ Marvin Minsky (MIT)

- ↳ Very famous AI researcher
- ↳ Book: The Society of Mind

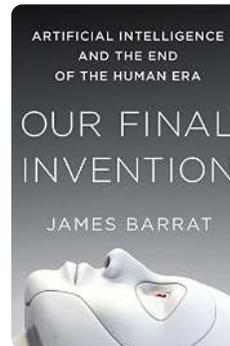


★ John McCarthy

- ↳ AI researcher at Stanford
- ↳ Created LISP
- ↳ Modern Version: Clojure

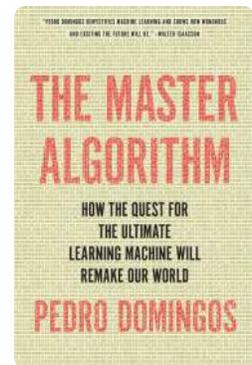
★ James Barrat

- ↳ Book: Our final invention



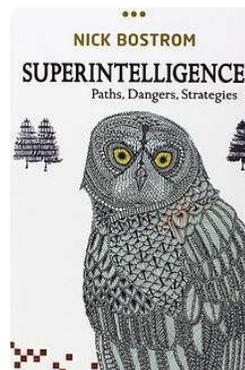
★ Pedro Domingos

- ↳ Book: The Master Algorithm
- ↳ critical thought on AI



★ Nick Bostrom

- ↳ Book: Superintelligence



★ Final Assignment

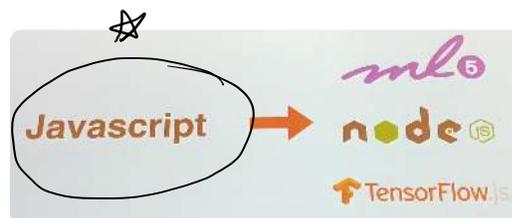
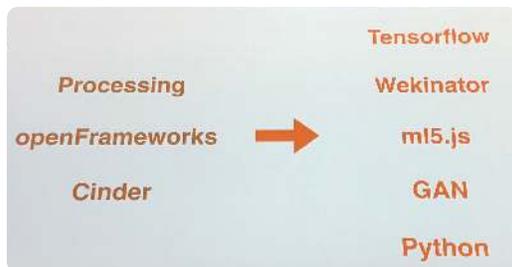
↳ Code, AI & You

§ Applications of AI (some of them)

- Face Recognition
 - ↳ Read article by TSA
- Speech Recognition
- Google Translate (& its other products)
 - ↳ China is leading w/ot language translation
- Google Maps
- Uber
- Nest
- IBM Watson
 - ↳ Work on healthcare
 - ↳ eg. insurance decision made by AI

◦ As DT students, we have access to Watson API

◦



12 Nov. 2018

- Class cancelled : Nov 19, 2018 (Thanksgiving)
- Last CC Lecture class : Mon, Dec 10th, 2018

★ FINAL ASSIGNMENT

- ↳ Due : Dec 19, 2018
- ↳ Revised version of Technology & Me
 - ↳ Code, AI & Me (1500 w)

- Apply to be a University Teaching Fellow
 - ↳ To teach in Bootcamp
 - ↳ Application comes in Jan 2019. → 15 seats
 - ↳ Extremely competitive — Deadline : Nov 19, 2018.
 - Apply — they check for academic standing
 - ↳ list of applic^{ns} comes out in Dec 2018.

◦ HOLIDAY PARTY : Dec 14, 2018 [D12]

↳ Friday

◦ Parsons is opening a new campus in Shenggen, China.

* Team Lab

- ↳ DMM Planets Art
- ↳ Transcending Boundaries
- ↳ teamlab : Planets : Toyosu Tokyo
- ↳ teamlab Massless : Finland



- ↳ wed Nov 14, 3pm : Kellen Auditorium → 66 & 5th
- ↳ INTERNSHIP OPPORTUNITY

o Google Interactive

- ↳ INTERNSHIP Opportunity
- ↳ Fri, Dec 7, 3pm : Kellen Auditorium

- o It would be either bootcamp teaching OR internship.
 - ↳ Apply for both & choose carefully later.

— x —

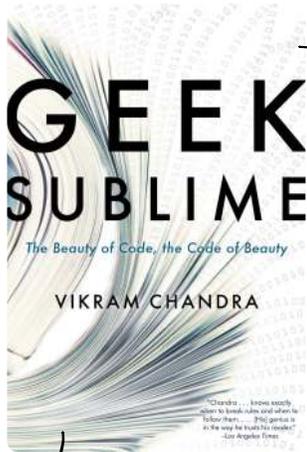
o IOT (INTERNET OF THINGS)

- ↳ Smart home, Eldercare, Healthcare, Transportation, Automation, Urban, Environment, Energy
- ↳ eg: Sonos : early adopter of IOT
 - : Nest
 - : Visual light : DT graduate (Arduino based lightbulb)

★ node.js

- ↳ Used to connect a browser to Arduino (/any hardware)
- ↳ Used by PayPal, Uber
- ↳ Works with Raspberry Pi, Arduino Nano
- ↳ Uses JavaScript: has become an industry standard.

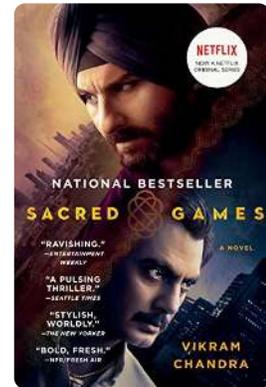
★



→ Final Reading Assignment



based on
one of
his books



- ↳ Question asked: Is Computer Programming Art?
- : What are coders exactly making?
 - : Poetry & logic live in diff't places.

26 Nov. 2018

- MFADT Thesis Popup Show
 - ↳ Dec 02, Sunday

Google **UX**
Friday, Dec 7th, 3pm
Kellen Auditorium
66 5th Ave, 1st fl

→ ≡ Google Interactive

→ Applications begin in January

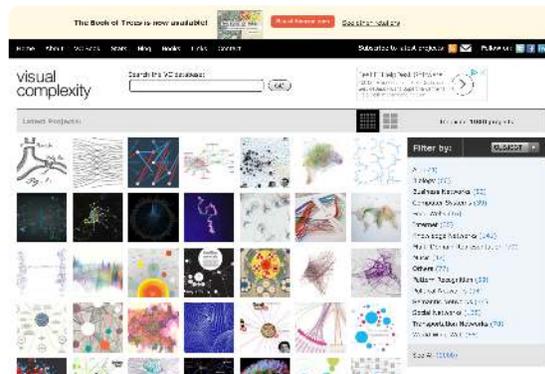
- Final CC Lecture : Dec 10
 - ↳ Display of the best work of the student
 - ↳ Nominate 12-15 projects

- Final CC Paper : Code, AI and Me
 - ↳ Due : Wed, Dec 19
 - ↳ 1500 words

- Δ12 Holiday Party : Fri, Dec 14, 7pm
- Take an appointment with Student Financial Services office
 - ↳ to ask for Scholarships
- China trip collab : June 2019 (8-10 people) : 10 Days

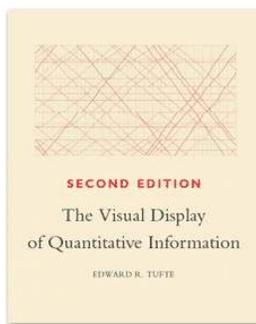
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o Manuel Lima
 ↳ ADT grad
 ↳ Worked on Informⁿ Design
 ↳ TED Talker



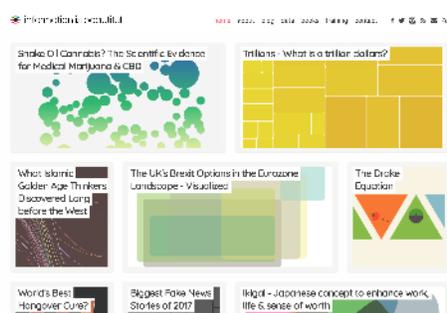
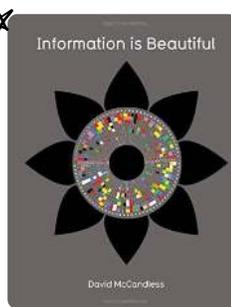
↳ Inspiration for giving presentations

o Edward Tufte
 ↳ Known for Data Viz
 ↳ 1-day workshop

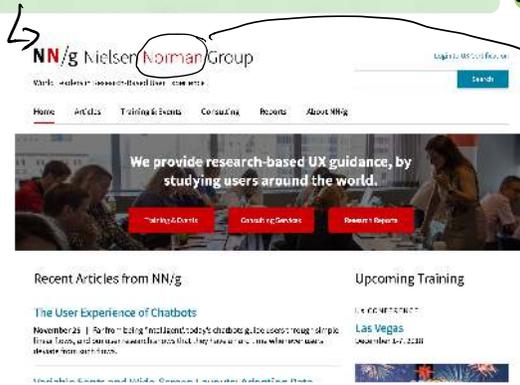


→ One of the best books

o David McCandless
 ↳ Another Data Viz artist
 ↳ TED Talker



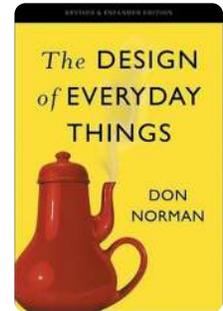
- Jacob Nielsen
 - ↳ Usability expert
 - ↳ Focused on the web



Worked with Don Norman

Consultancy firm

- Don Norman
 - ↳ Design for Everyday Things
 - ↳ Director of design for Apple (early days)



— ∞ —

★ CINDER

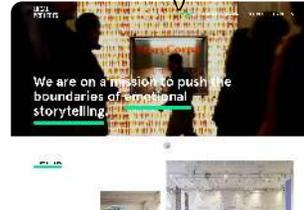
- ↳ Alternative to openFrameworks
- ↳ Industry Standard
- ↳ Originally created by:
 - The Barbarian Group
 - ↳ Big Ad agency
- ↳ Open Source
 - ↳ Not as large a community



↳ Used by : Patton

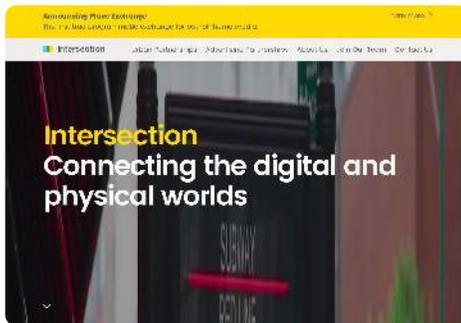


Local Projects



★ INTERSECTION (Owned by Google)

↳ One of the largest design firms in the city



Company behind Link NYC



↳ Great place for an internship

03 Dec. 2018

- Final project display in the next CC lecture
 - ↳ Dec 10, Monday
 - ↳ Only the nominated ones (min. 2 nominations needed)
 - ↳ Submit nominations on [leit.ly/CC projects 2018](https://leit.ly/CCprojects2018)
- Submit final paper
 - ↳ Due: Wed, Dec 19
 - ↳ Topic: Code, AI & Me → what do you think about it
 - ↳ 1500 words
 - ↳ ✉: cclecture2018@gmail.com

Google UX
Friday, Dec 7th, 3pm
Kellen Auditorium
66 5th Ave, 1st fl
RSVP here:

<https://goo.gl/tRdCkX>

→ Google Internship Opportunity

★ About CC Grades

↳ Lecture: 20% (attendance, 2 writing assignment, list assign.)
↳ Lab: 80%.

◦ About grades in general: DT faculty are lenient - Min. grade is usually B/B+.

D12 Holiday Party
Friday, Dec 14th, 7pm
bit.ly/D12party

→ To participate in supporting this party

- No CC Lecture/Lab in Dec 3rd week (Dec 17, 18).
- Most of the classes end in Dec 2nd week.

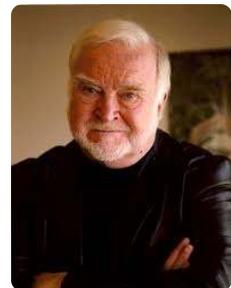
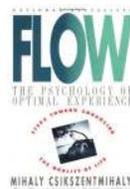
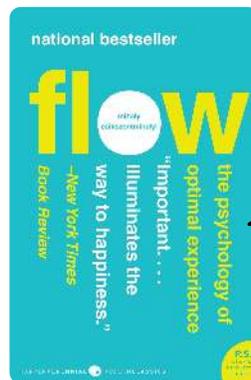
China
bit.ly/DTChina2019

→ Fill the form of interested

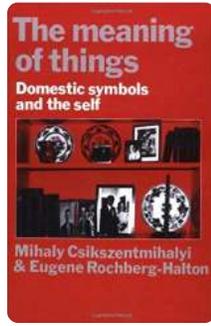
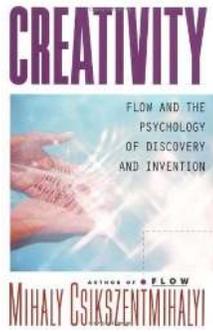
- Start loc : Beijing
- June 3-14, 2019
- People : 10
- You can go on the trip for zero credits
- There will be an info session for selected students

— x —

- Flow
 - Master work of modern psychology
 - Used to be a CC lecture compulsory



Mihaly (Mee-hi)
Csikszentmihalyi
(Chik-sen-mee-hi)



→ Other good books by
Csikszentmihalyi

-
- DT program started in the 2000s with a focus on the web
(∴ ∃ .com boom)
 - As you write your final MSI project, think about which projects through this semester helped you achieve a "Flow" state.
 - ↳ Those are the areas you want to focus on, for the future
 - ↳ "Flow" state ≡ had the best time

* Bill Joy

↳ Known for: BSD Unix,
Founder - Sun Microsystems,
Founded - Java Language





Go into next semester already heavily involved with something... anything

↳ Think about what you want to do. Next semester - inform your MS2 faculty next semester



↳ Do a project on JavaScript, Processing, Unity, & anything you want to use next semester

END OF COURSE