

# This is CS50

grab 1 handout and 1 blank sheet by doors!

CPSC113:

Programming & Entrepreneurship





# CPSC 200b vs. CPSC 201b

Stephen Slade

Practice vs. Theory  
(you can take both)

The professor and the genie

Recursion

UNIX

Computer Architecture

CPSC 200: Python and R

CPSC 201: Racket (aka, Scheme, LISP)

CSPC 200 Topics:

- Software engineering
- Version control (github)
- Networks
- Object oriented programming
- Security, privacy, regulation
- Data science, machine learning

CSPC 201 Topics:  
Turing Machines  
Boolean logic  
Gates and circuits  
Formal languages  
Finite state automata  
Computational complexity

Biography (hybrid):

Yale B.A. Music

Yale MS, PhD, Computer Science

Wrote three books

Presidential politics, White House

NYU Business School

Wall Street: Morgan Stanley, et al.

New: Automated Decision Systems



Questions?



# Computing & the Arts

Professor Holly Rushmeier

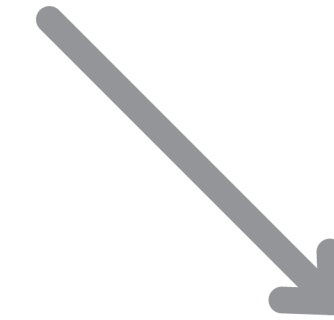
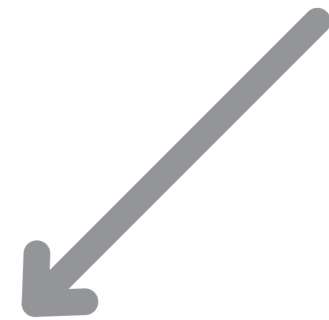


## What is Computing and the Arts?

An interdepartmental major designed for students interested in integrating work in computing and one of the arts disciplines. Computing and the Arts provides students with core Computer Science skills that allow them to explore interesting and substantive problems in art, art history, music, theater, or architecture.

# Computer Science Core Studies

6 courses, including  
CPSC 201, 202, and 223



## Art

6 courses  
from ART

## Art History

6 courses, 5 from  
HSAR and one  
studio art course

## Music

6 courses  
from MUSI

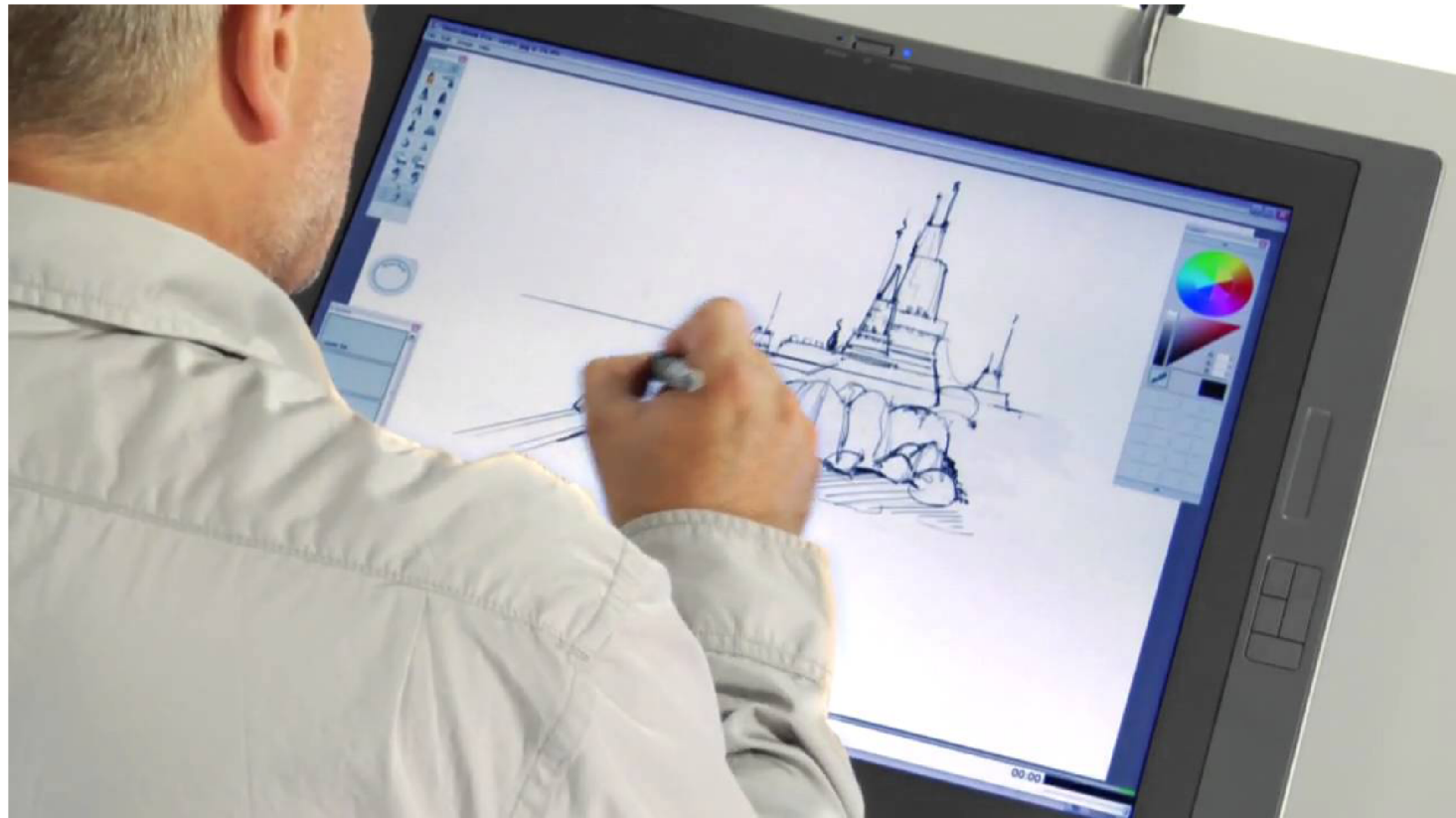
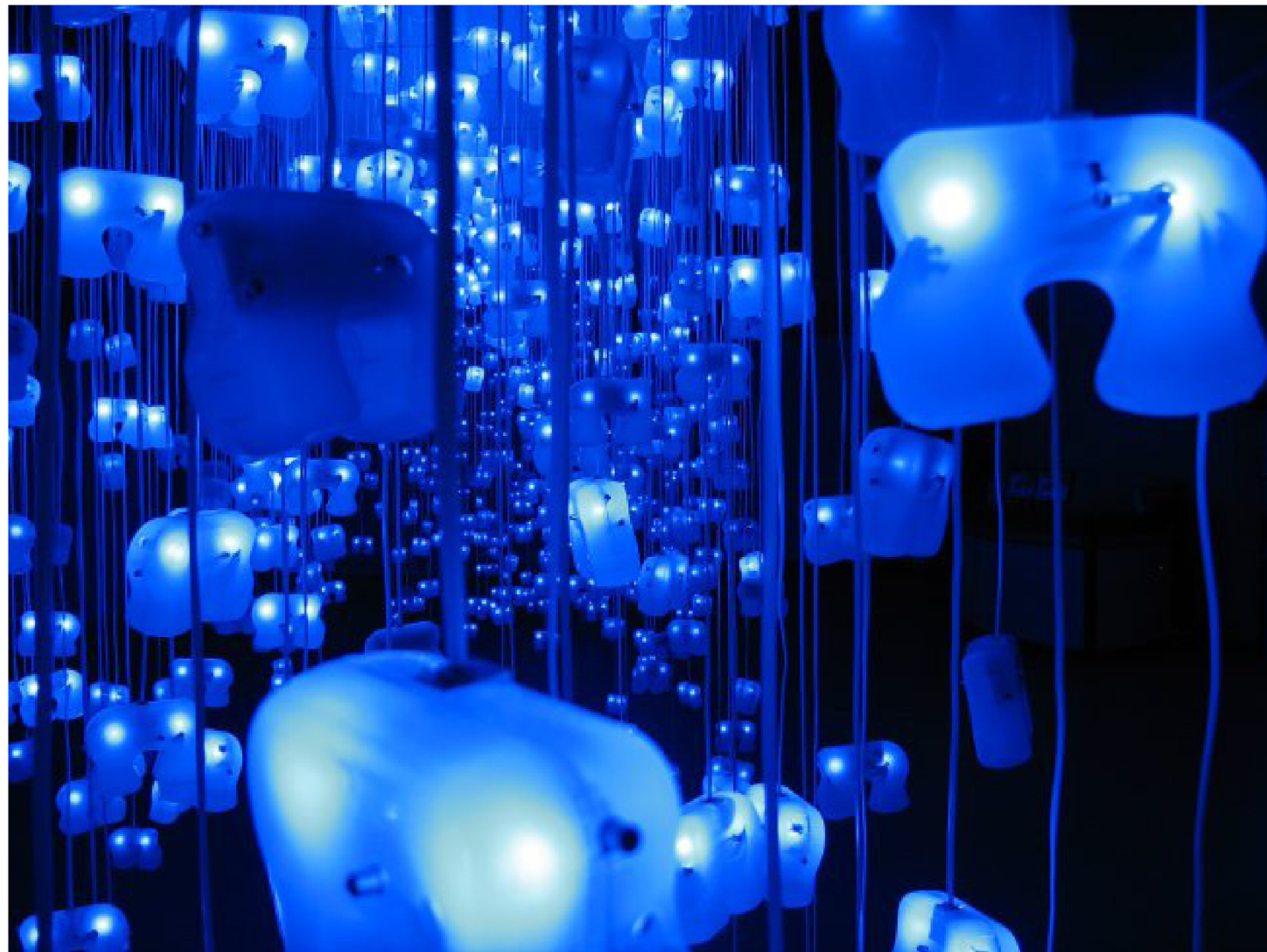
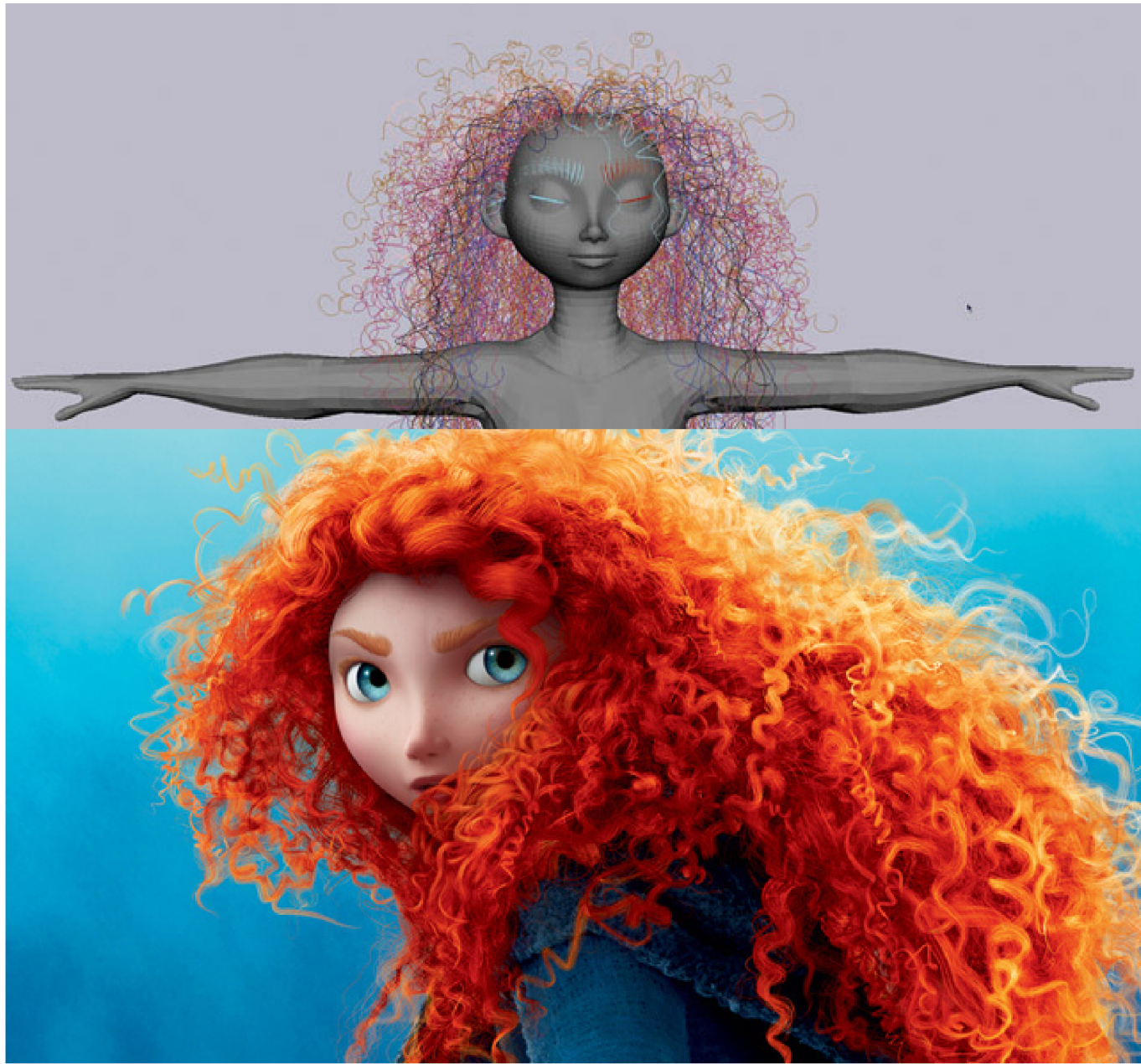
## Theater Studies

6 courses, 3  
from THST  
and 3 courses  
in dramatic  
literature or  
theater history

## Architecture

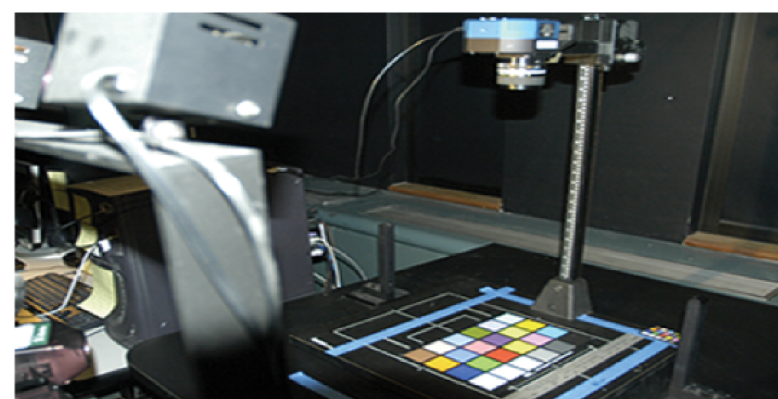
6 courses from  
ARCH





Art

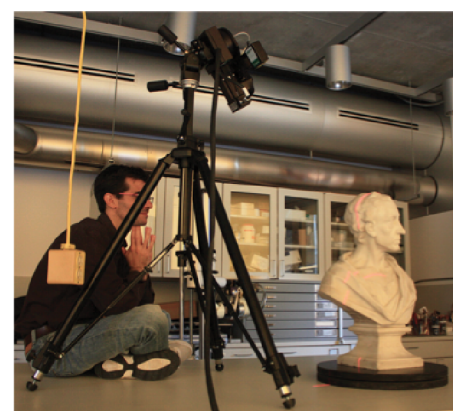




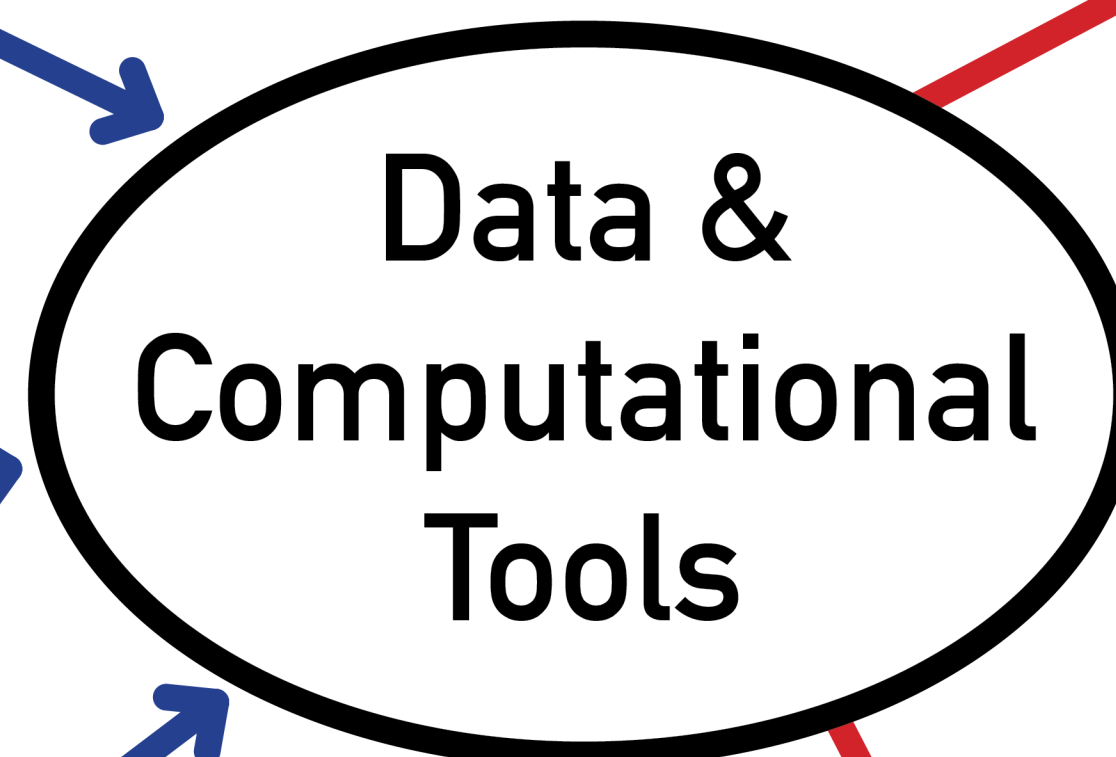
Imaging



Conservation



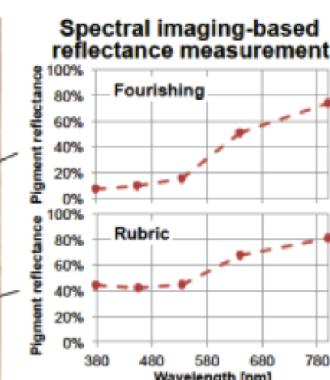
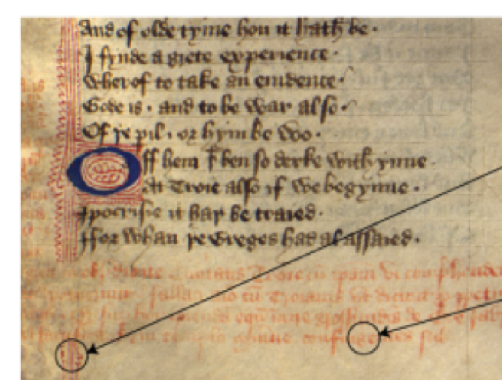
3D Scanning



Data &  
Computational  
Tools



Humanities



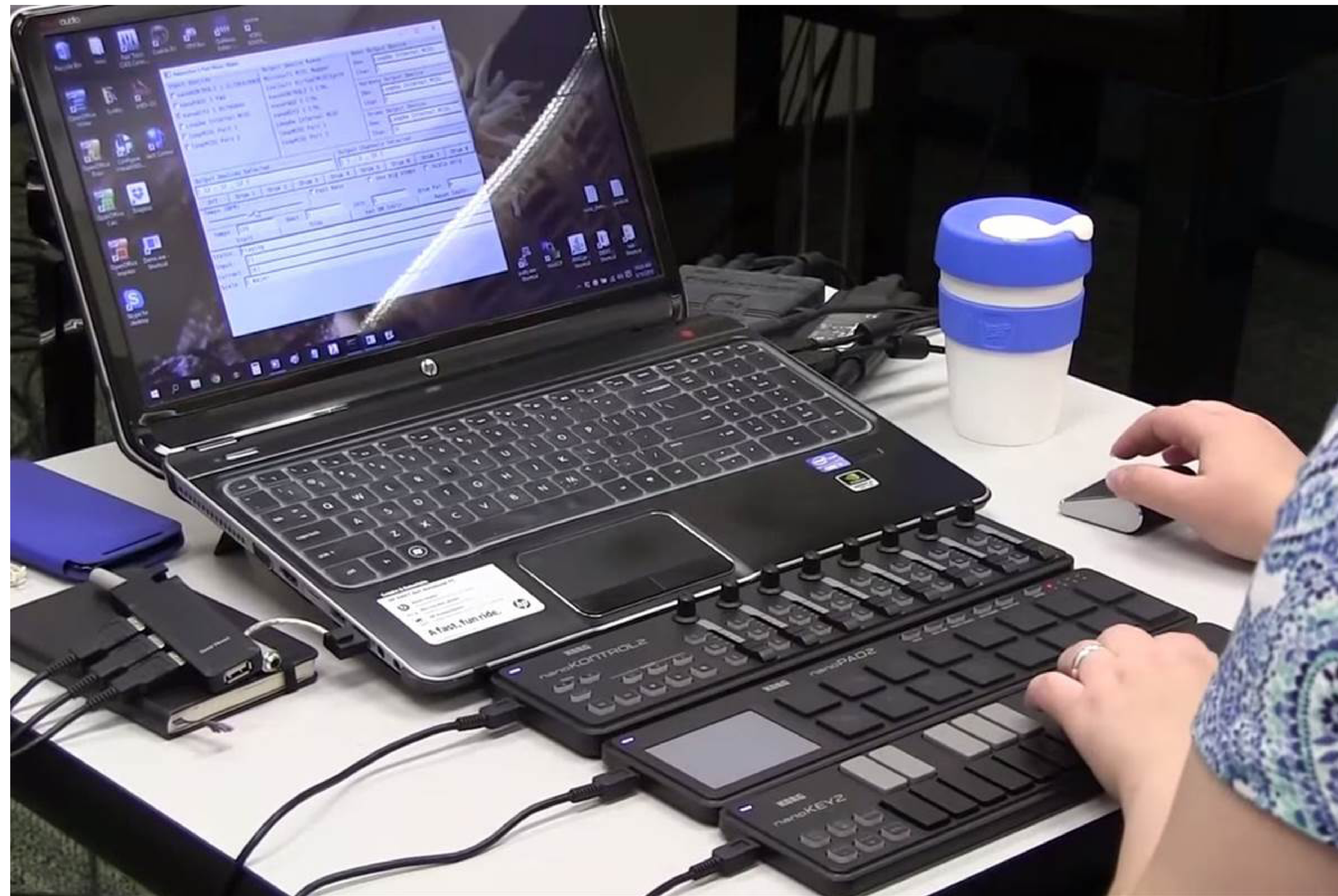
Databases



Communication

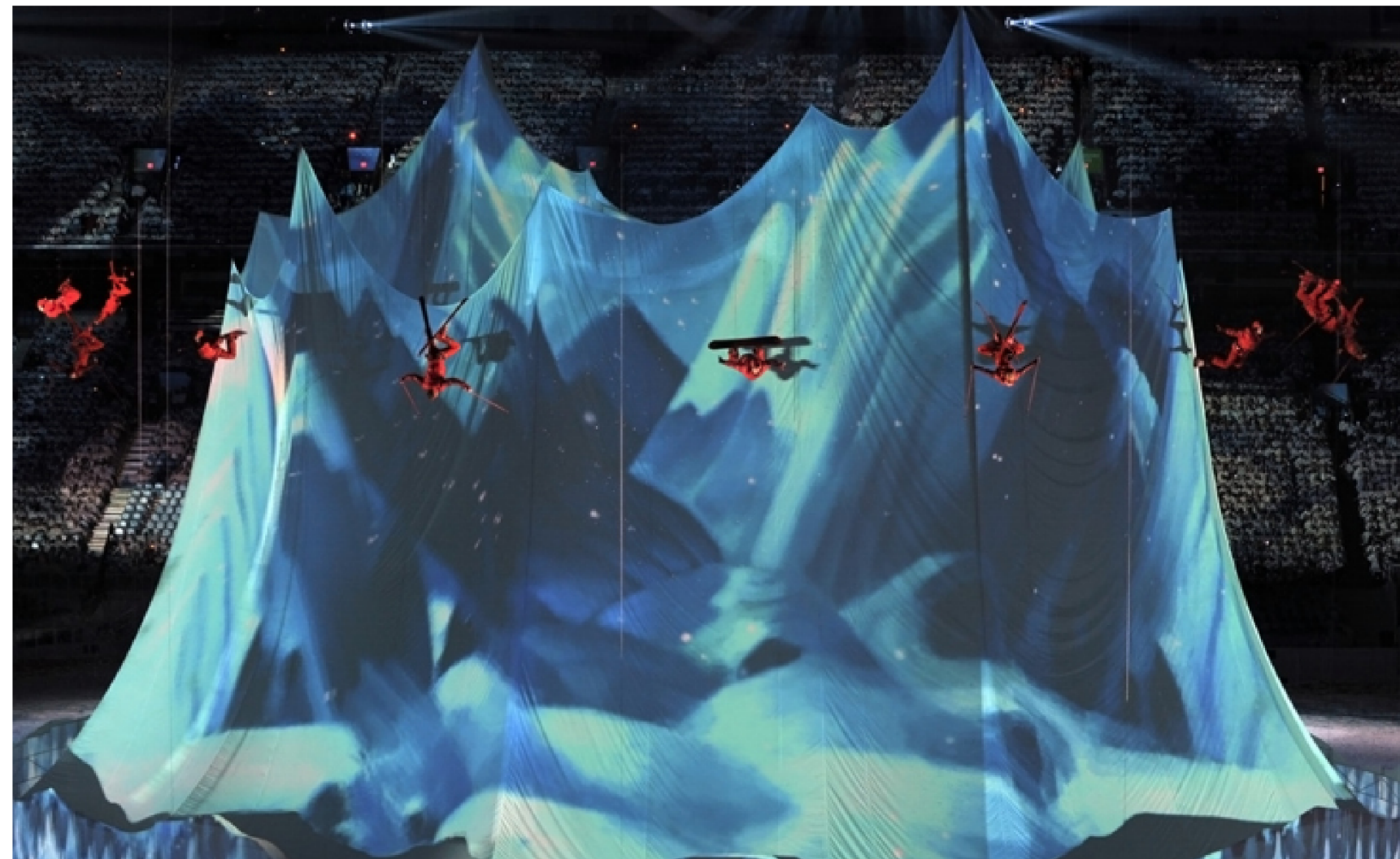
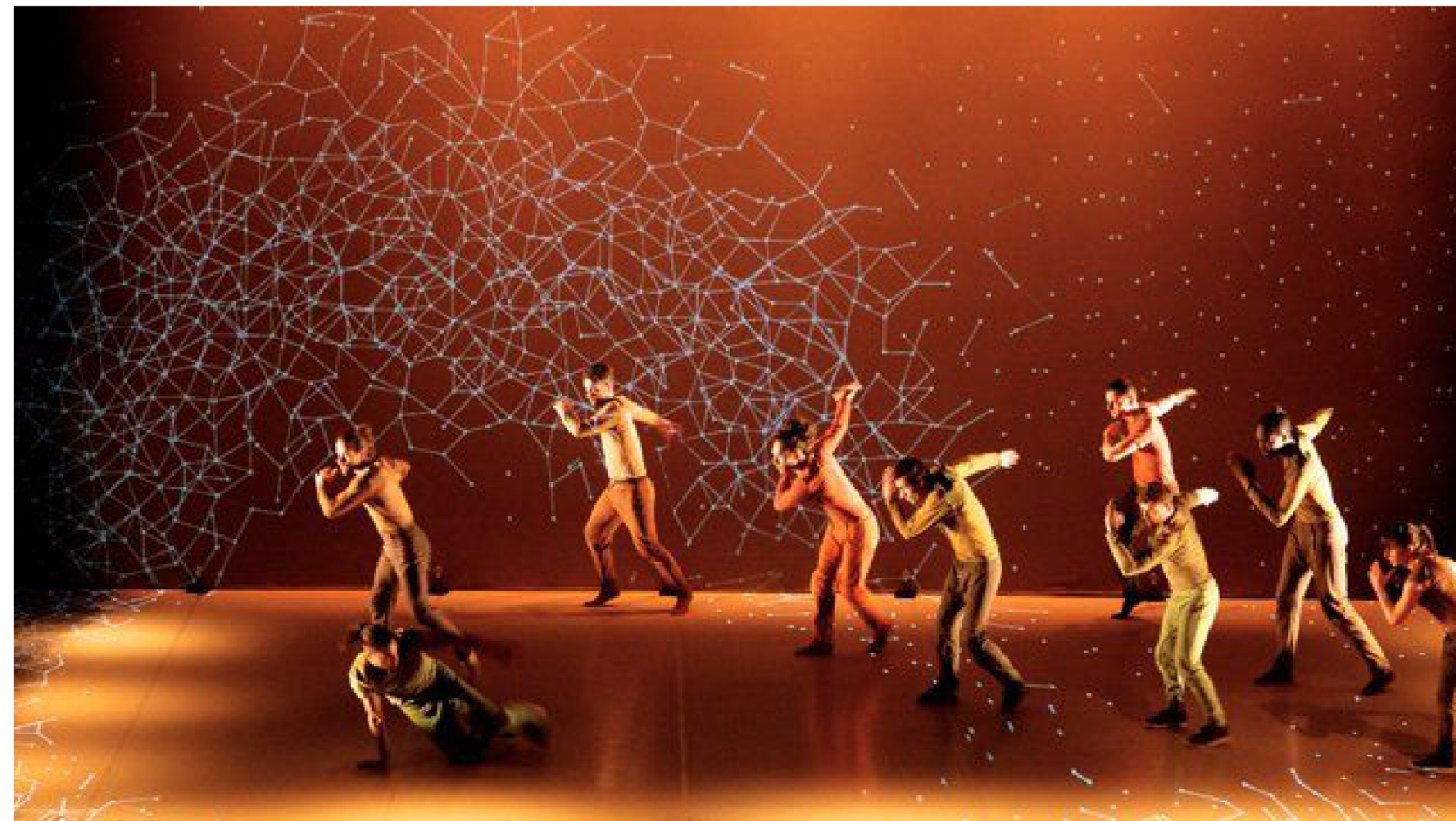
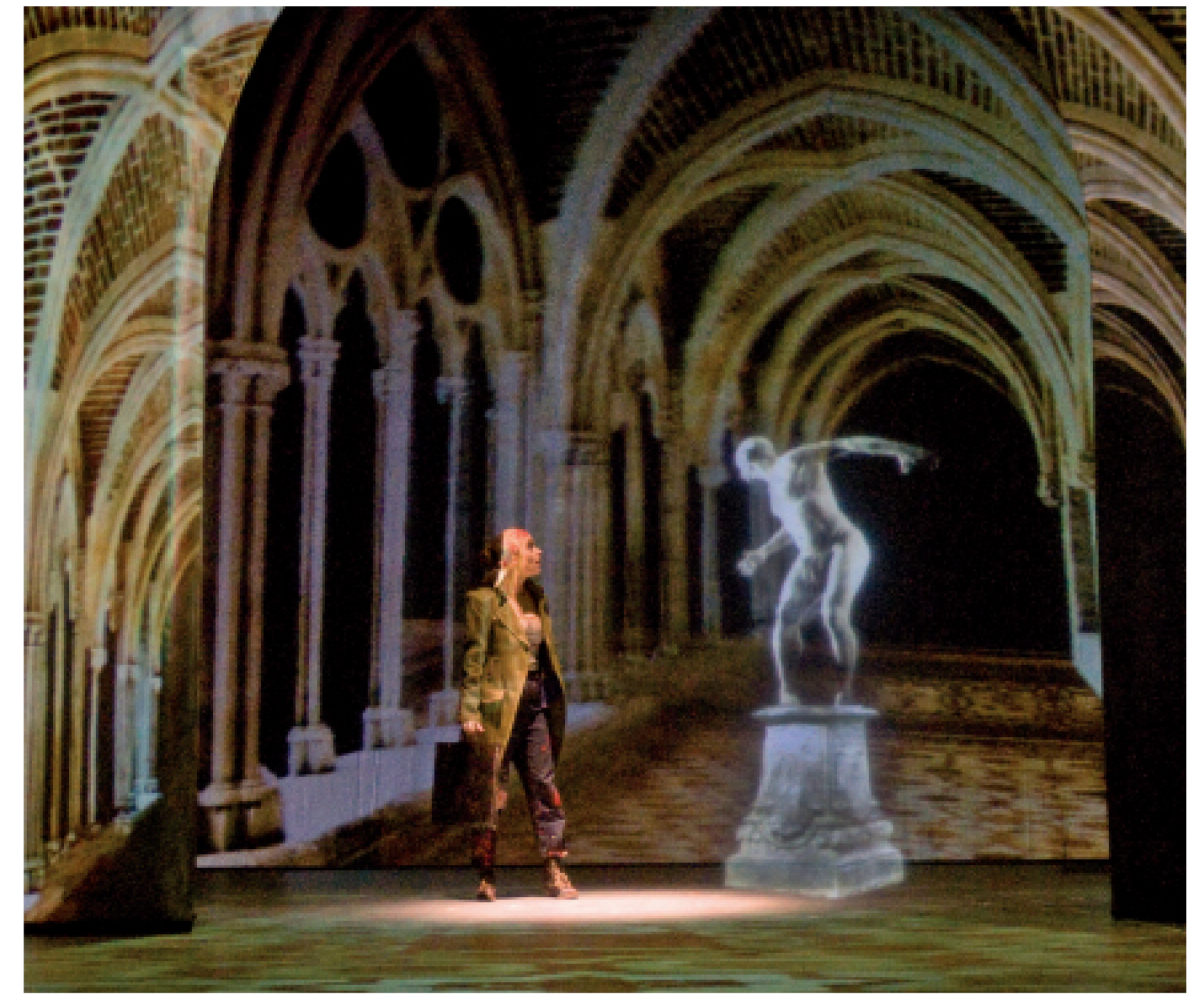
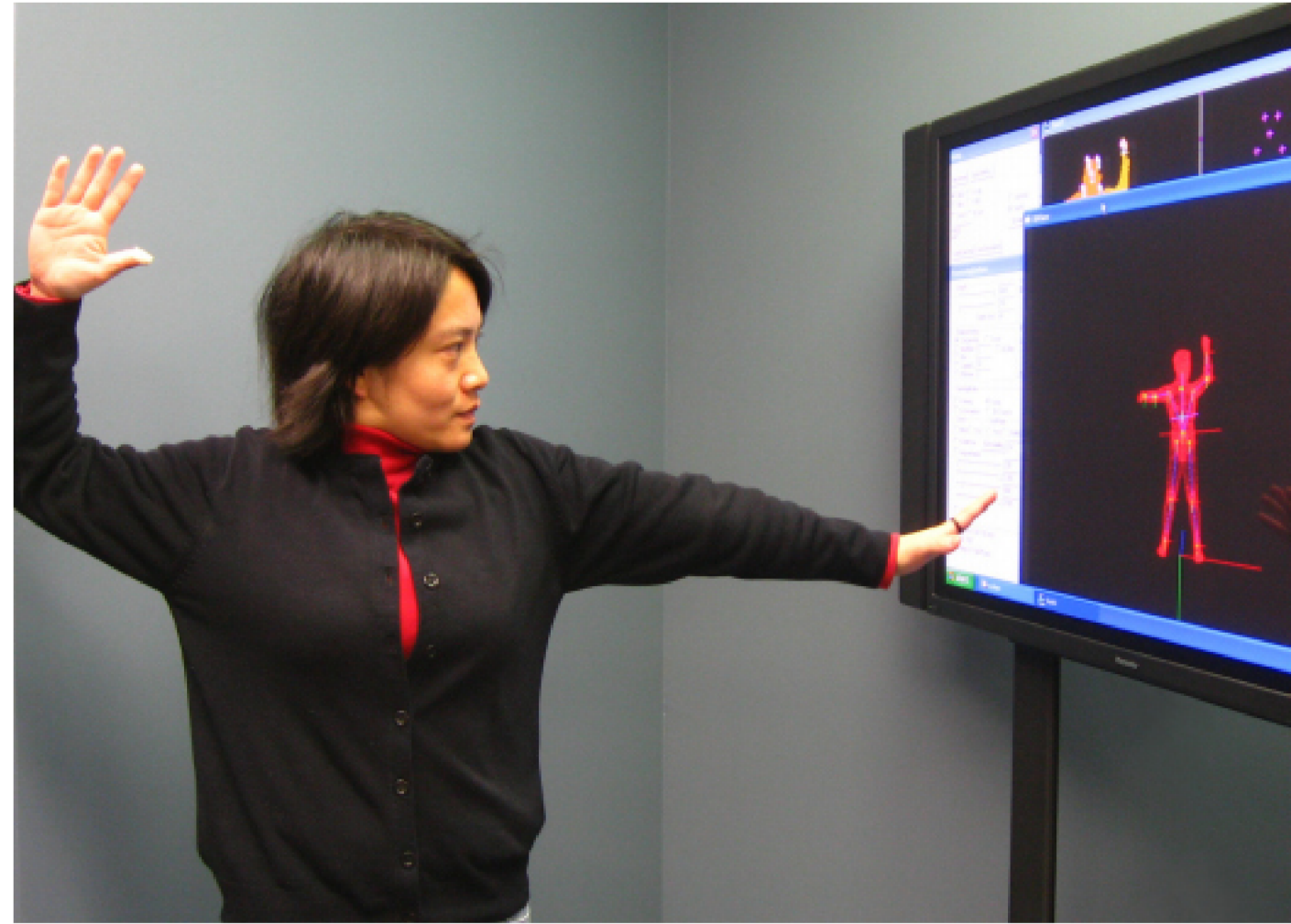
Art History





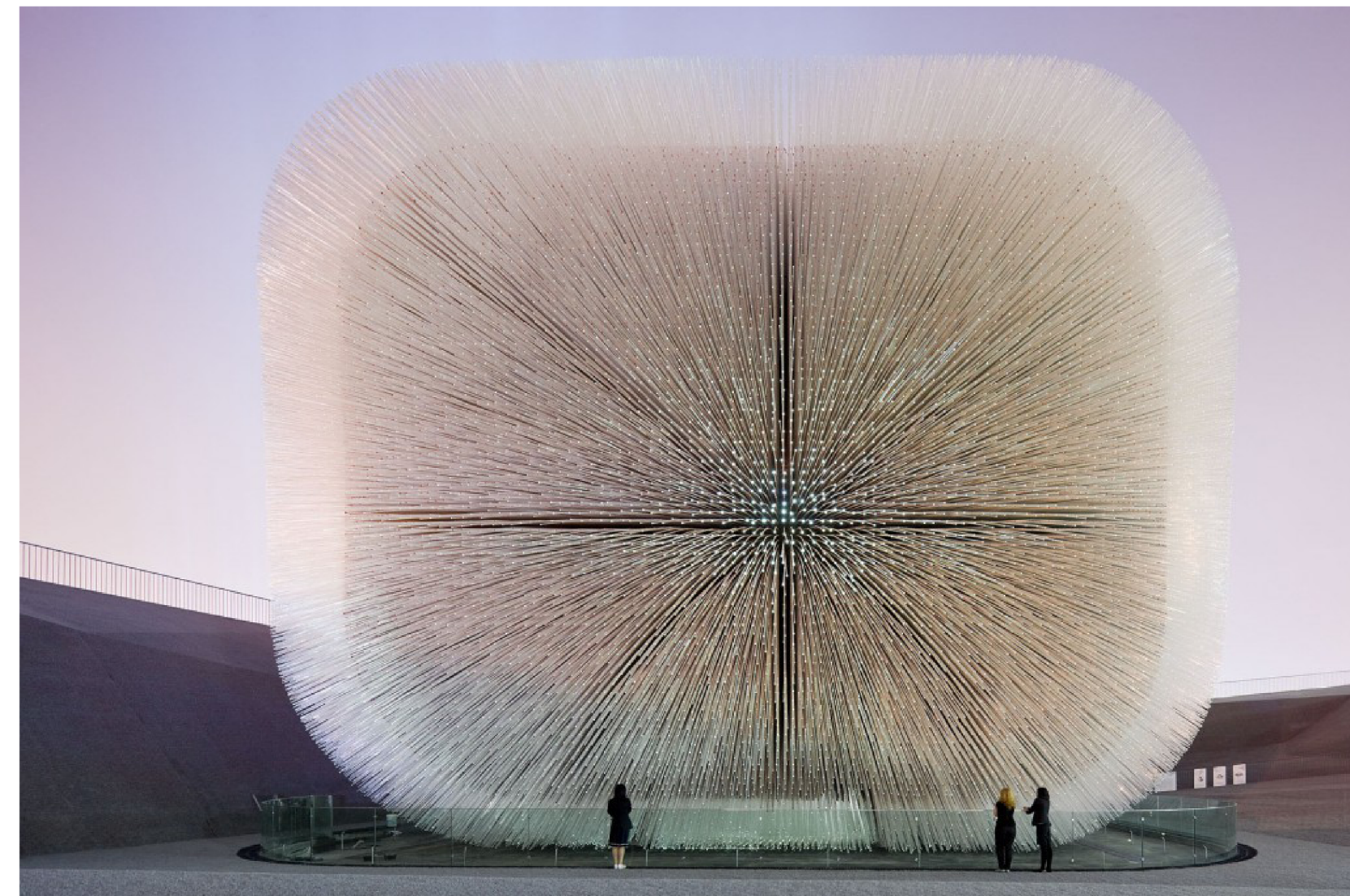
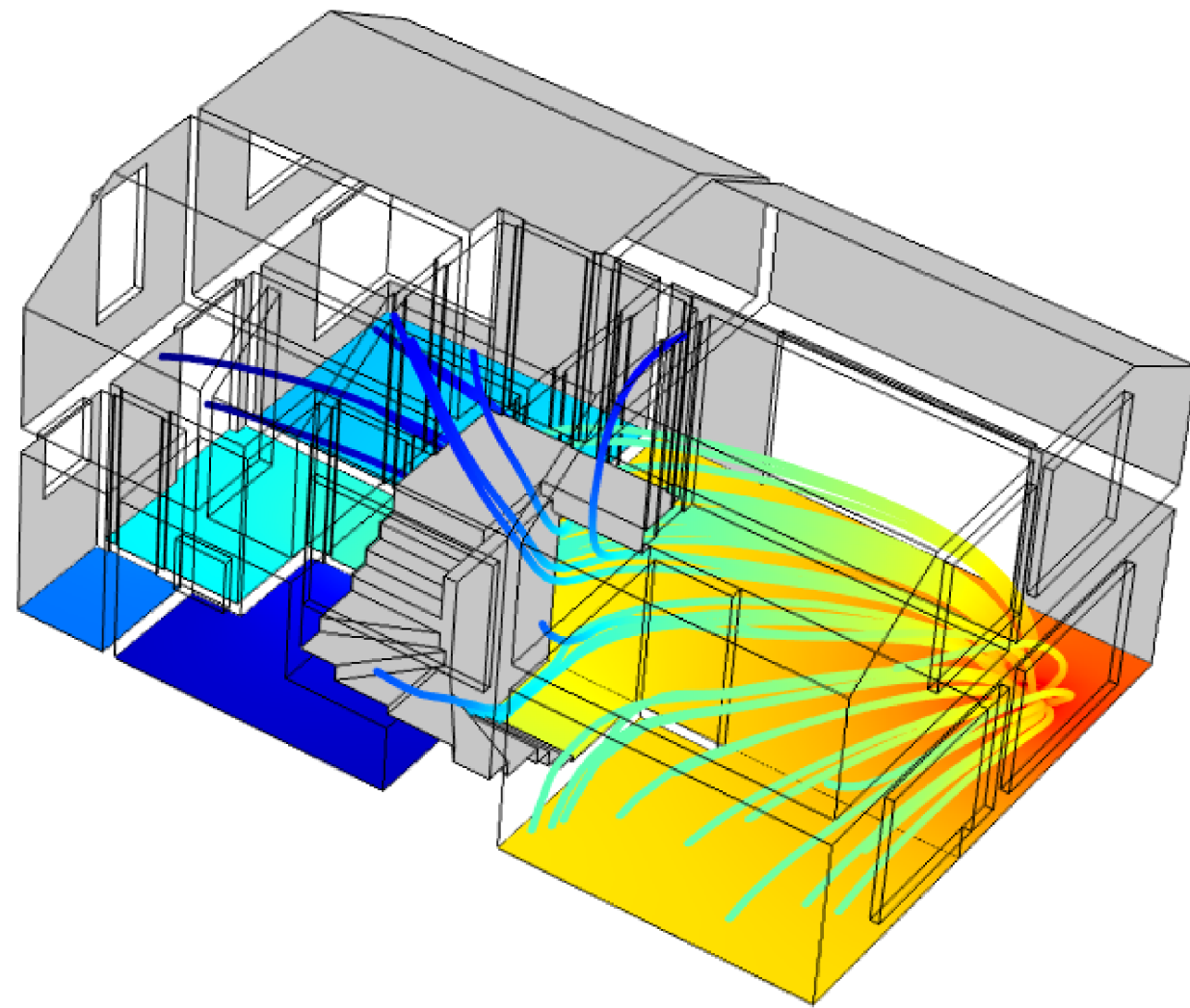
# Music





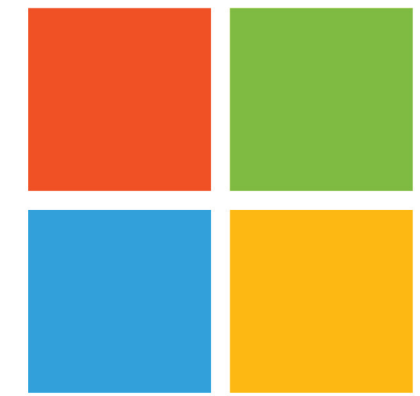
# Theater Studies



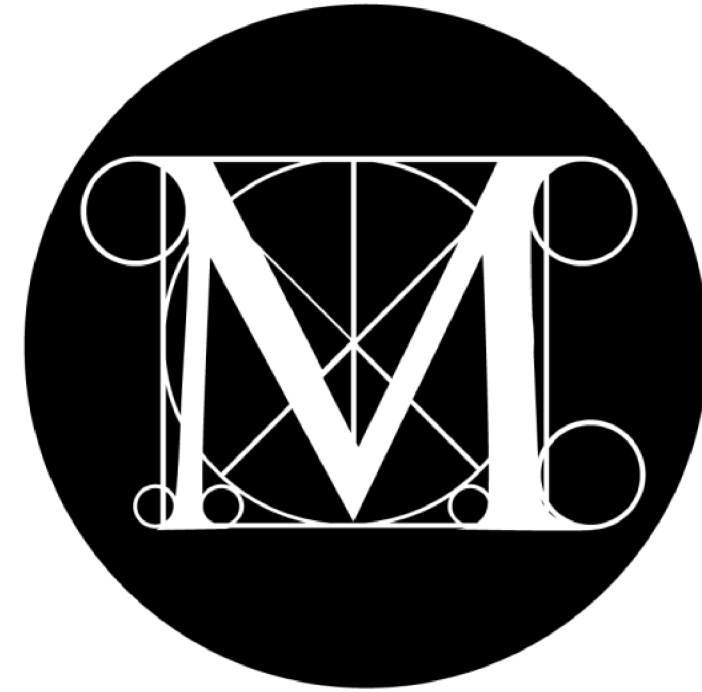


# Architecture





Microsoft



3PlayMedia

Google

**COOPER  
HEWITT**

Disney



# Career Opportunities

For more information about the  
Computing and the Arts Major, please contact  
DUS Julie Dorsey at [julie.dorsey@yale.edu](mailto:julie.dorsey@yale.edu)

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what ultimately matters in this course is not so much where you end up relative to your classmates but where you, in **Week 12**, end up relative to yourself in **Week 0**



MARIO  
000700

1 x 01

WORLD  
1-1

TIME  
287



# CS50 Hackathon

Thu 12/3, 7pm – 7am



















# CS50 Fair at Yale

Mon 12/14, 12pm – 3pm, Commons







[cs50.yale.edu/invite](https://cs50.yale.edu/invite)

eBay

ESPN

Facebook

Google

Palantir

YEl

YHack

...

Go Pro Hero 4

iPad Mini

Wii U

Xbox One

...





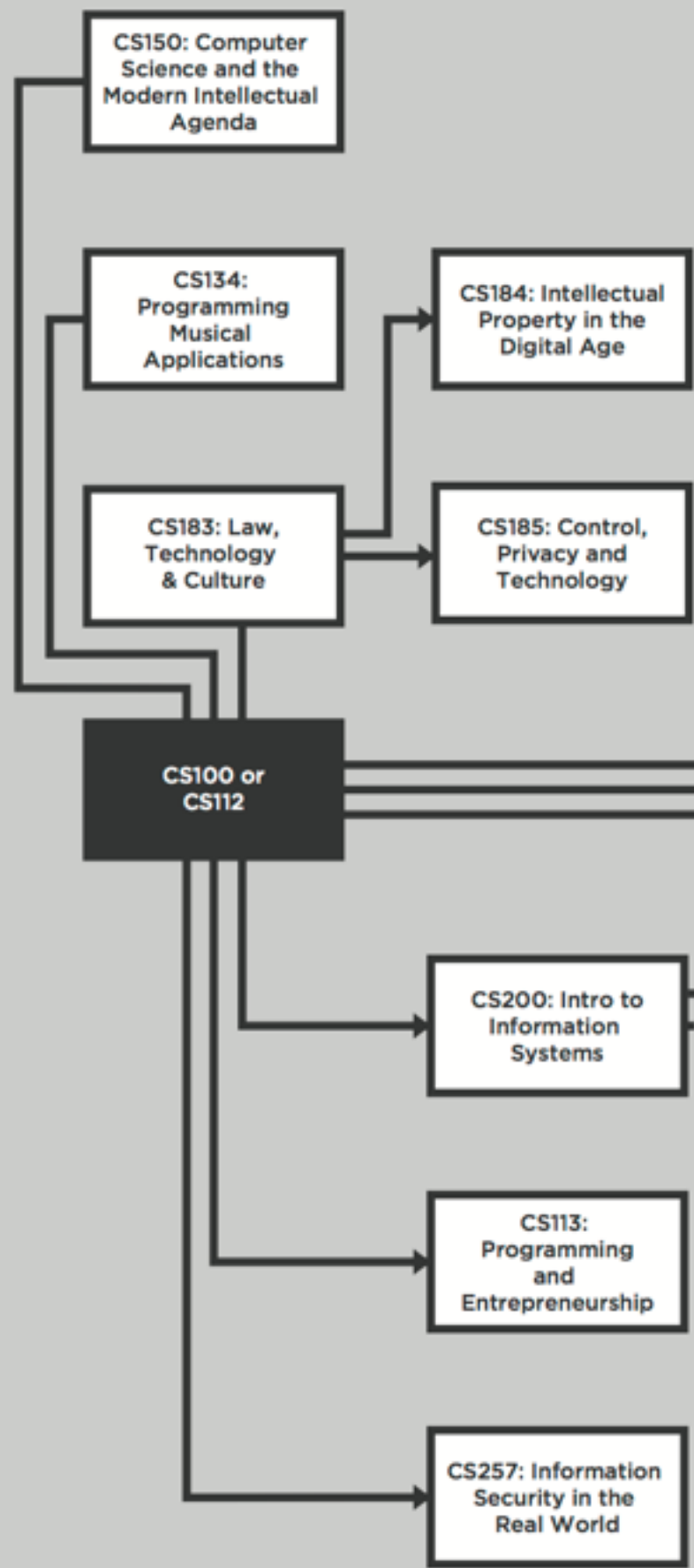








[cs50.yale.edu/guide](https://cs50.yale.edu/guide)

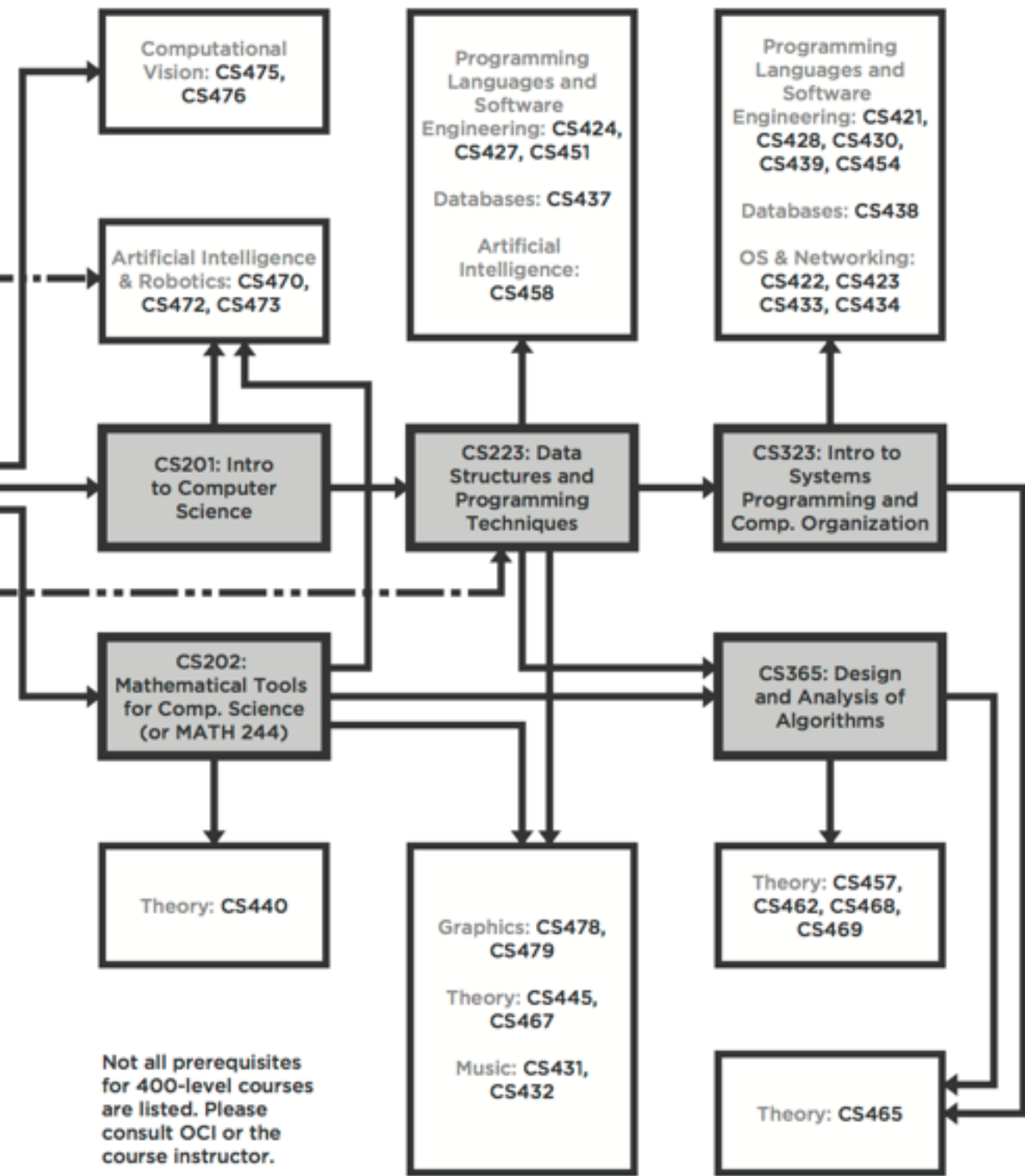


Designed Primarily for Non-Majors

# The Unofficial Guide to CS at Yale

Version 1

- Prerequisite
- May be taken in any order
- - - Talk with Professor Slade



Not all prerequisites for 400-level courses are listed. Please consult OCI or the course instructor.

Designed Primarily for Majors



# CS50 EXPO

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FRIDAY, NOVEMBER 20TH

**3PM - 4:30PM**

STERLING MEMORIAL LIBRARY

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Research projects, student groups,  
and startups from Yale and Harvard all  
related to engineering and science.  
Learn about how you can get involved!

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CS50 AP



TA

CA

Composer

Designer

Photographer

Producer

Statistician

...

[cs50.yale.edu/apply](https://cs50.yale.edu/apply)










**Ethan Campbell-Taylor** with David J. Malan.

November 16 at 4:17pm

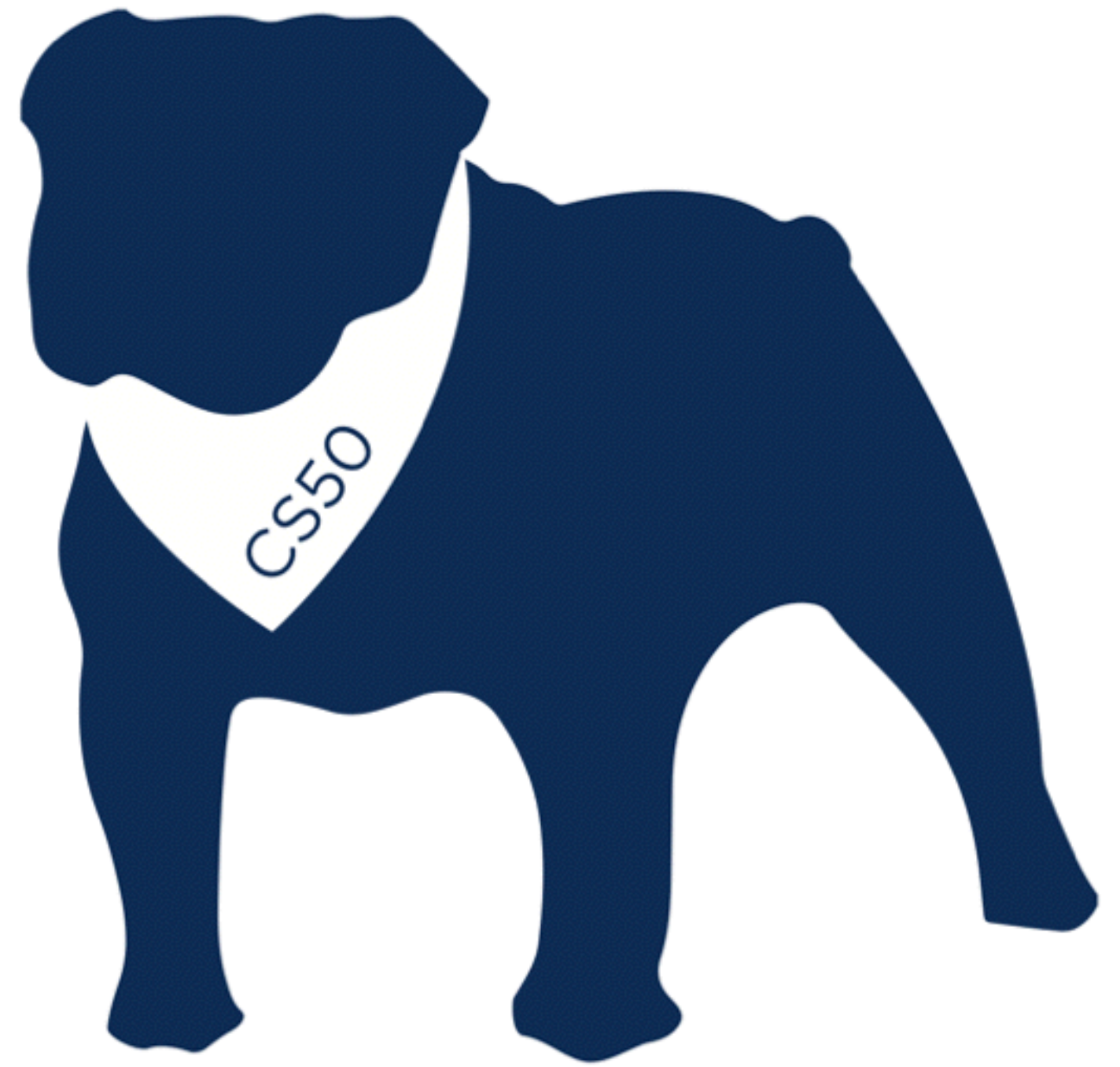
Overseen: Harvard CS50 professor David Malan coming to the dark side





A person is holding a bright blue t-shirt. The t-shirt has white text printed on it. The person is wearing a light-colored jacket over a dark shirt and has a watch on their left wrist. The background is slightly out of focus, showing what appears to be an indoor setting with a window.

You can't spell  
"Harvard is the  
worst university  
in the world"  
without "Harvard"







Abby Lyons Adam Cimpeanu Aleksandra Zakrzewska Alex Goldberg Alex Pong Alex Reinking Ali Monfre Alicia Vargas-Morawetz Aliess Kingsley Amelia Holcomb Andi Peng Andrew Malta Anita Xu Anna Whitney Annaleah Ernst Aparna Nathan Arianna Benson Arsalan Sufi Aubrey Wahl Brahm Gardner Brandon Tineo Brian Arroyo Brian Scassellati Camille Rekhson Carlos Mendizabal Charlie Proctor Charly Walther Chris Lim Claire Carroll Collin Styring Colton Ogden Connor Harris Dan Armendariz Dan Coffey Daven Farnham David Armenta David Hughes David J. Malan David McPeck Devansh Tandon Diego Torres Quintanilla Doug Lloyd Eli Block Emily Houlihan Eric Ouyang Eric Twark Evan Hellmuth Ezra Zigmond Filip Bujaroski Frank Wu George Zhang Glenn Holloway Hannah Blumberg Hannia Zia Haohang Xu Hari Anbarasu Henrique Vaz Hugh Zabriskie Ian Sexton India Patel Isaac Xia Jack Deschler Jacob Lurye Jacob Scherba Jason Brooks Jason Hirschhorn Jay Hou Jennifer Hsiao Jessica Lee Jessica Zhu Jon Kim Jordan Canedy Jordan Hayashi Juan Bedoya Juliette Grantham Karl Otness Kevin Dong Kevin Zhang Khalid Tawil Kyle Kwong Larry Guo Larry Zhang Lauren Scully Lee Danilek Leila Hofer Lien Tran Limor Gultchin Linda Song Marcus Powers Maria Zlatkova Marinda Horan Mark Grozen-Smith Mary Farner Matt Beatty Megan Valentine Michael Ge Michael Menz Michael Patterson Minh Tri Pham Mirhee Kim MJ Richardson Neel Mehta Nicholas Larus-Stone Nick Joseph Nicole Fish Patrick Pan Peter Chang Peter Jin Pulak Goyal Ramon Galvan Rob Bowden Robbie Gibson Robert Krabek Ross Rheingans-Yoo Ryan Kerr Sahil Gupta Sam Cheng Sam Levatic Samuel Green Sarah Strohkorb Shafeeq Ibraheem Shane Campayne Shreyas Tirumala Stelios Rousoglou Stephen Krewson Summer Wu Sylvan Zheng Ted Tuckman Thomas Lively Tim Tamm Travis Yeh Victor Domene Walter Martin Wilder Wohns Winnie Wu Winston Boucher Zack Chauvin Zamyra Chan







THE BIG BOARD								
	Contestant		RAM	load()	check()	size()	unload()	TOTAL
1	Alexander Reinking	staff	2.095	0.130	3.300	0.000	0.000	3.430
2	Andrew Cheng Jin		1.853	0.160	3.340	0.000	0.000	3.500
3	Rob Bowden	staff	1.344	0.130	3.440	0.000	0.000	3.570
4	Raphael Rouvinov		4.003	0.270	3.350	0.000	0.000	3.620
5	Sachith Gullapalli		7.502	0.120	3.660	0.000	0.000	3.780
6	Thomas Richard Lively	staff	1.041	0.390	3.450	0.000	0.000	3.840
7	Francisco Trujillo		1.126	0.520	3.410	0.000	0.000	3.930
8	Larry Zhang	staff	2.094	0.390	3.550	0.000	0.000	3.940
9	Alex Joseph Pong	staff	6.869	0.390	3.550	0.000	0.000	3.940
10	Brian Paul Yu		3.094	0.390	3.610	0.000	0.000	4.000







This is CS50













































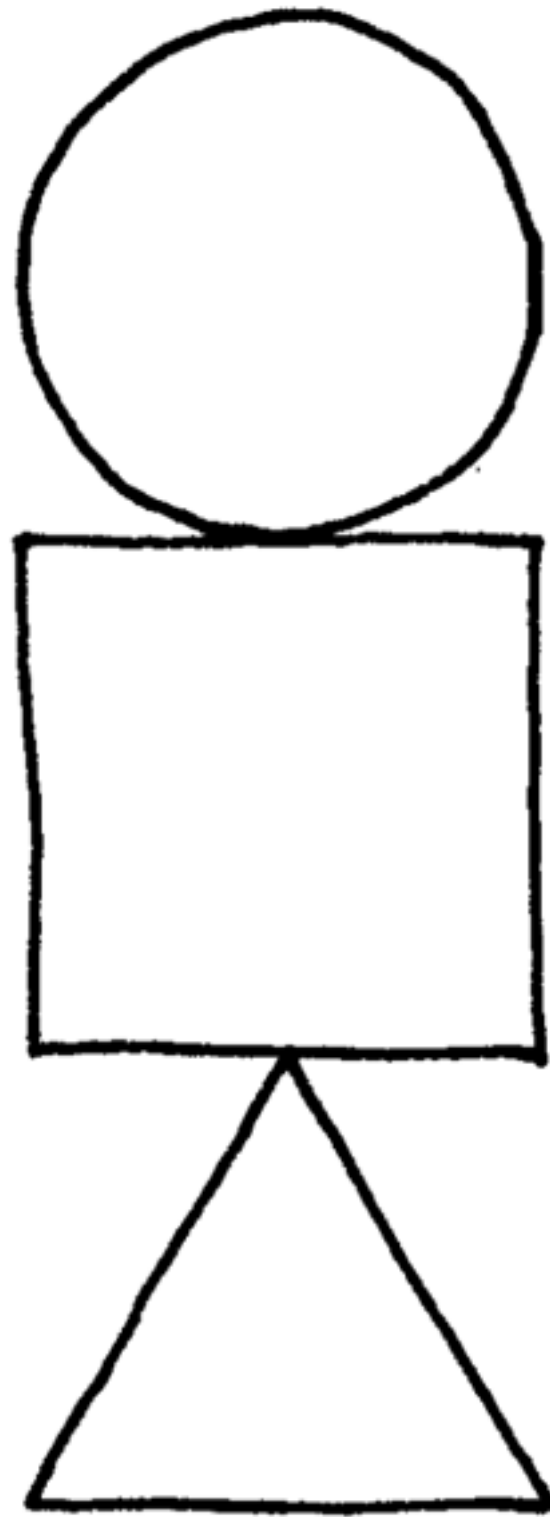






















Hi

