



DET

Designing Emerging Technologies

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Fall 2019



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EXPERIMENT

Berkeley MDes

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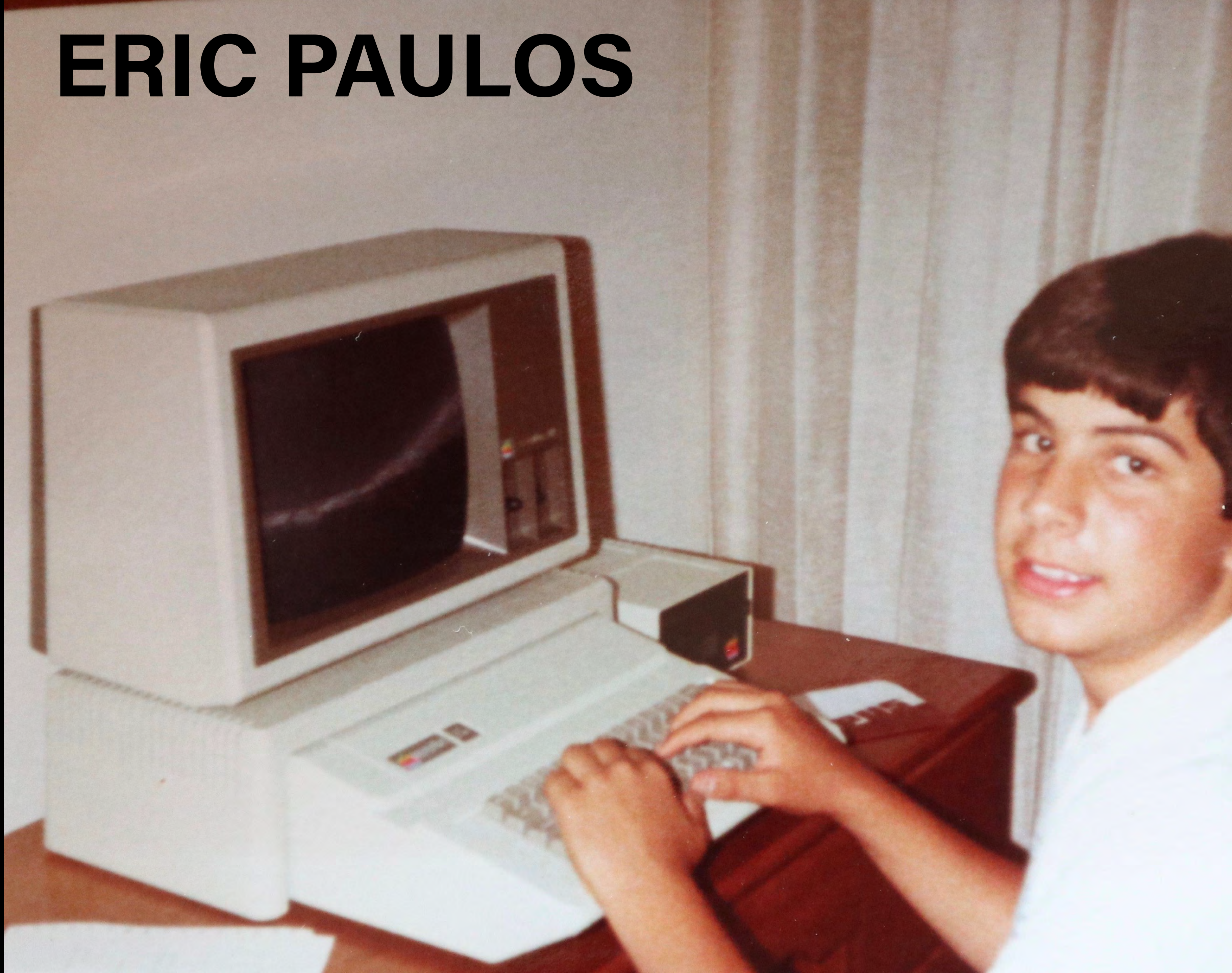
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**Designing Tomorrow's Thoughtful
Technologies Today**



ERIC PAULOS





Cal

UNIVERSITY OF
CALIFORNIA
BERKELEY

1014

PAUL

PAULOS ERIC J

10245772

Eric Paulos

NON TRANSFERABLE REPLACEMENT CHARGE
VAL-DINE SYSTEM GRIFFIN TECHNOLOGY



ERIC PAULOS



VIVEK RAO







They always say time changes things, but
you actually have to change them yourself.

— Andy Warhol



DET

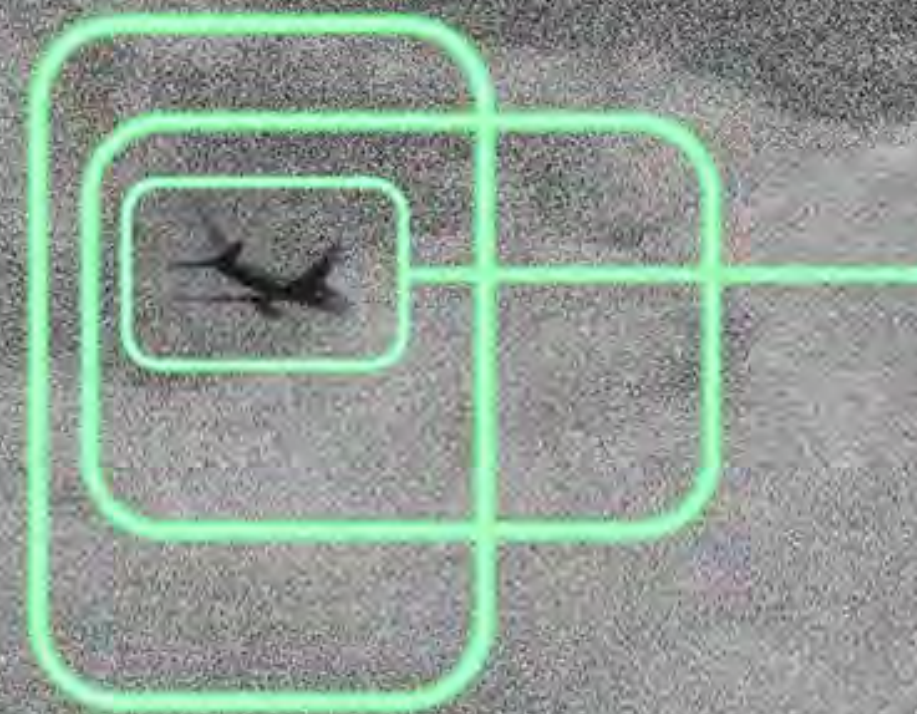
Designing Emerging Technologies

Fall 2019



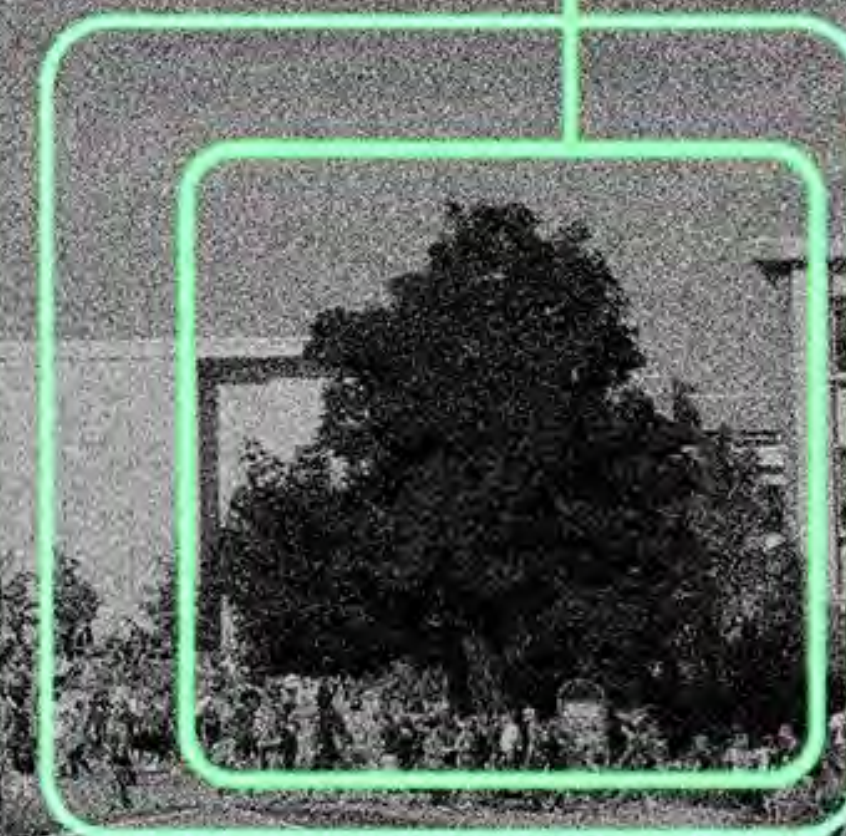
Designing Emerging Technologies (DET) is an intensive, project-based studio course that focuses on the design of interactive artifacts realized through the process of deeply engaging with selected emerging technologies as rich creative material. Students are led through a sequence of projects of varying lengths (one to four weeks). Projects include both individual and team activities, with teams frequently changing in size and composition. DET introduces students to emerging technologies, supports them with expert viewpoints and selected literature, and quickly enables “handles” by which students first encounter a new technology, and then in teams, develop and refine final functional prototypes which are showcased and critiqued. Unlike classes that simply use a new technology as an endpoint, DET is designed to enable students to develop and refine the design skills that will enable them to be creative practitioners when encountering a range of current and future technologies. Engaging with these technologies as creative materials.

PERCEPTION AS A CREATIVE MATERIAL



OBJECT ID: AIRPLANE
01/15/2014 13:51:07
ACCURACY: 99.4%

OBJECT ID: TREE



OBJECT ID: HUMAN





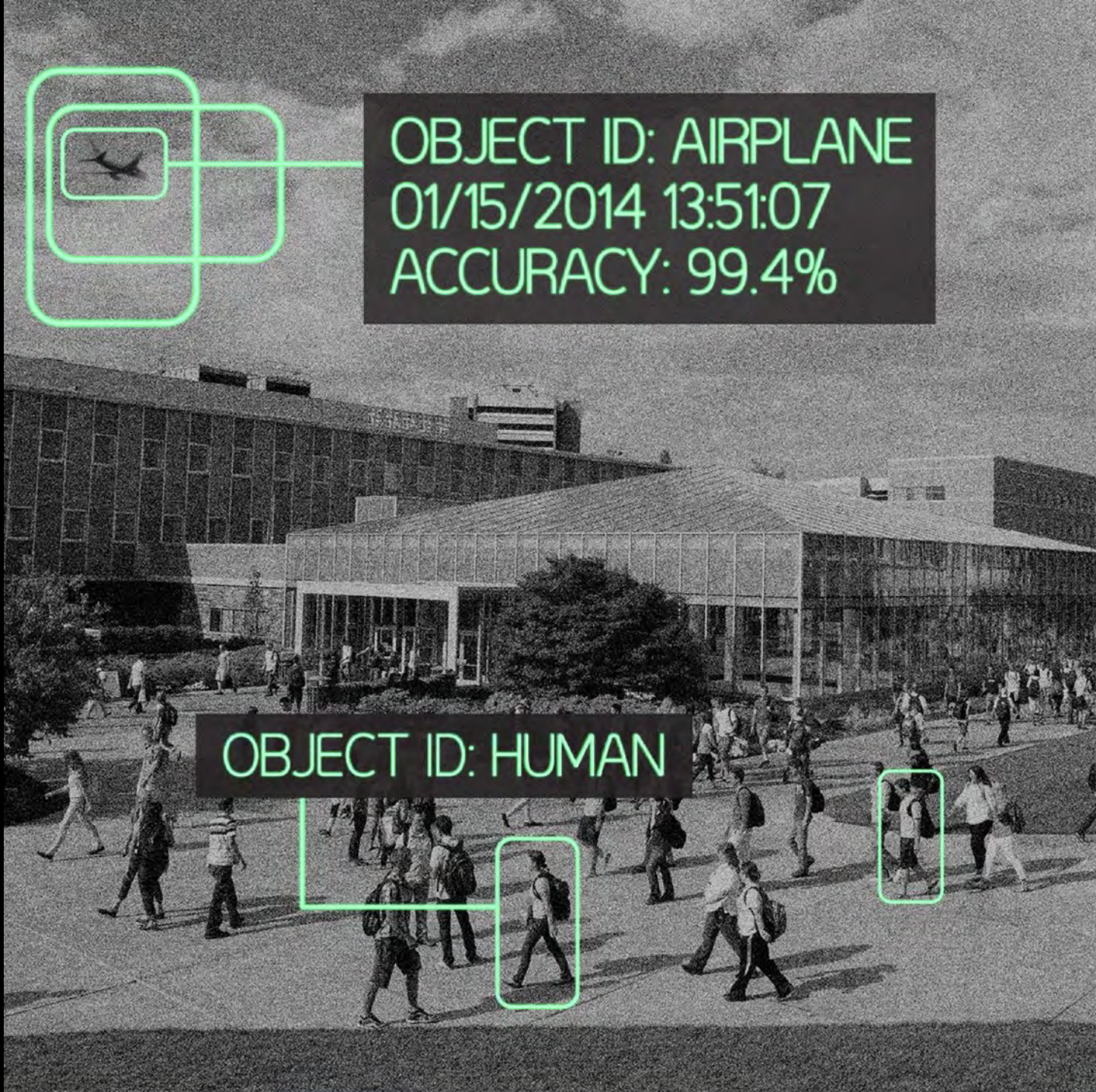
CONVERSATION AS A CREATIVE MATERIAL

EXTRA-REAL AS A CREATIVE MATERIAL





ROBOT AS A CREATIVE MATERIAL



Perception



Conversation

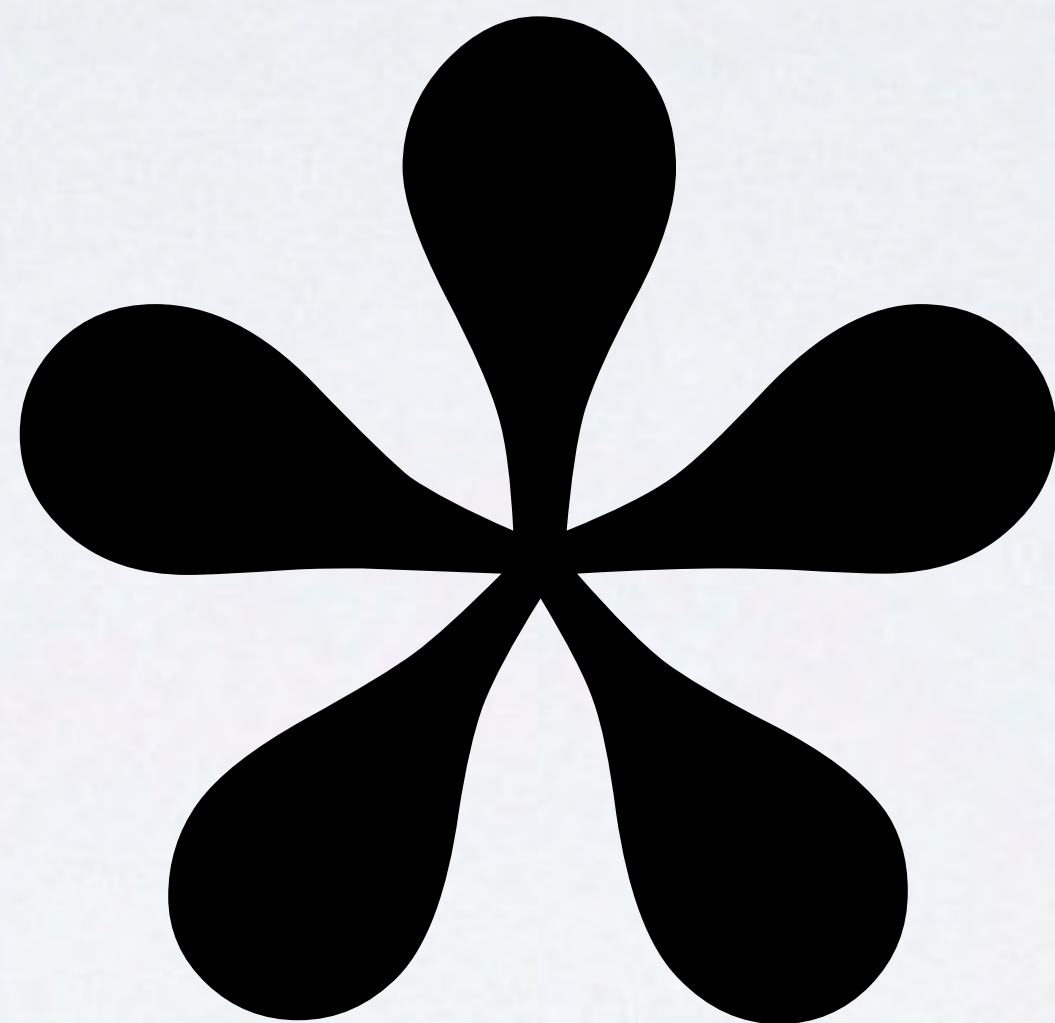


Extra-Real



Robot





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PLASTIC

DET

Designing Emerging Technologies

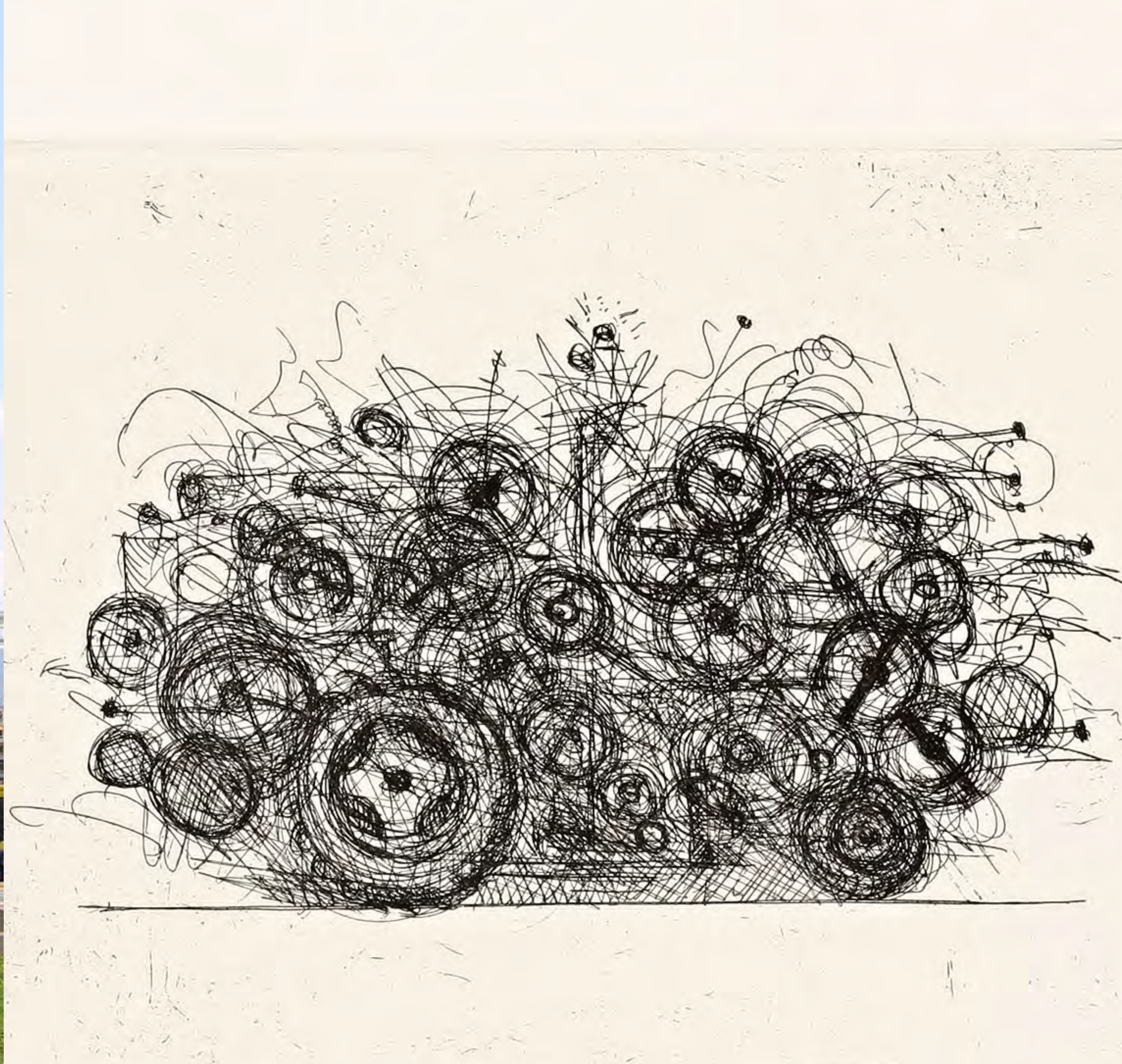
Fall 2019



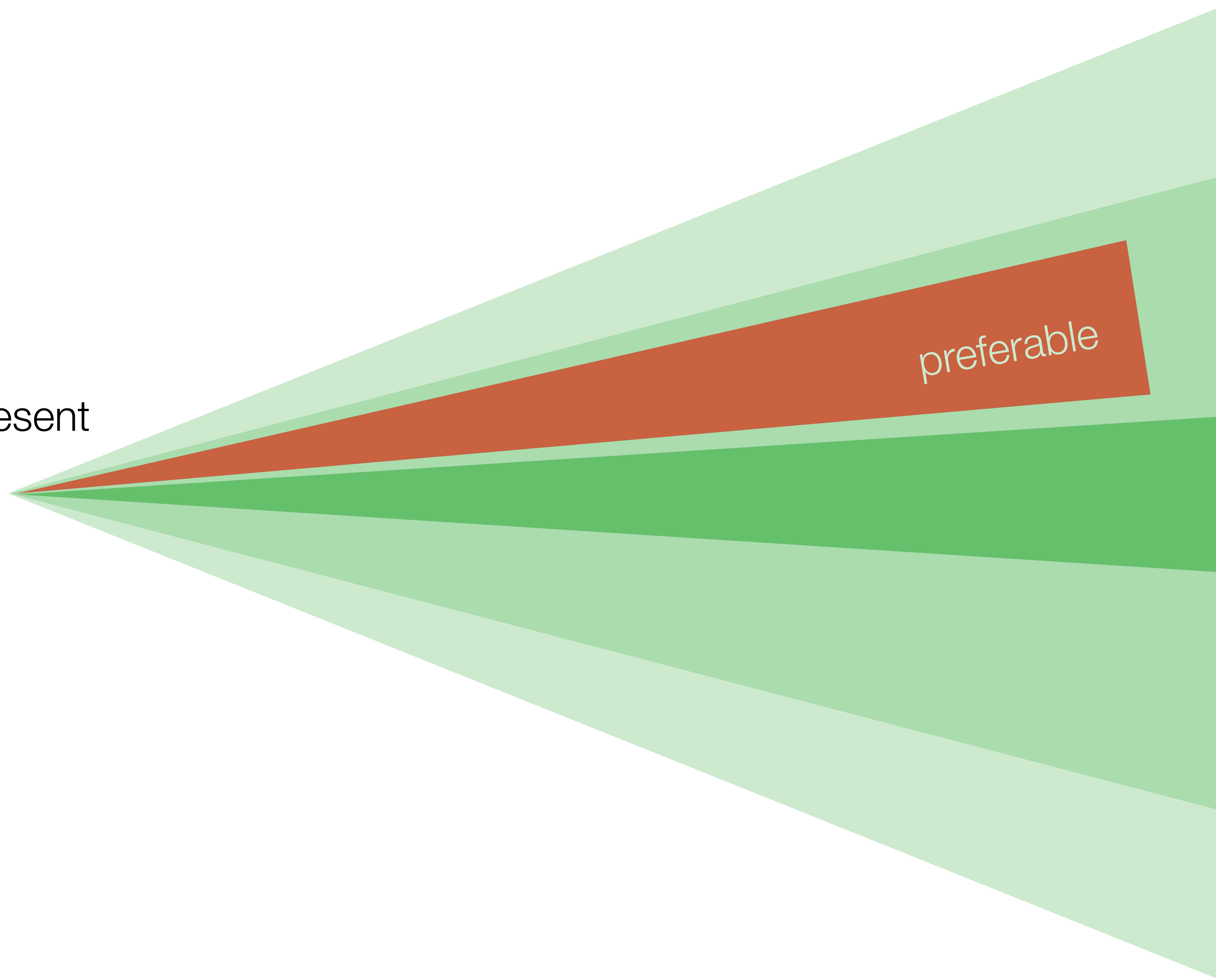
PLASTIC

adj. flexible, soft

PLASTIC DYNAMISM



present



possible

plausible

probable

preferable

AI

AI FUTURES

Will AI make us all geniuses?	NO
Will AI make us all morons?	NO
Will AI destroy whole industries?	YES
Will AI make us more empathetic?	NO
Will AI make us less caring?	NO
Will teens use AI for sex?	YES
Were they going to have sex anyway?	YES
Will AI destroy music?	NO
Will AI destroy art?	NO
But can't we go back to a time when...	NO
Will AI bring about world peace?	NO
Will AI cause widespread alienation by creating a world of empty experiences?	WE WERE ALREADY ALIENATED

AMATEUR

from amāre - to love

amātor - lover

CLASS CULTURE EXPECTATIONS

UC Berkeley Honor Code

<https://teaching.berkeley.edu/berkeley-honor-code>

Campus Principles of Community

<https://diversity.berkeley.edu/principles-community>

University Standards for Academic Integrity

<https://sa.berkeley.edu/conduct/students/standards>

CLASS CULTURE

“As a member of the UC Berkeley community, I act with honesty, integrity, and respect for others.”

INCLUSIVE CLASSROOM



If you make a mistake, correct yourself

If someone else makes a mistake, correct them

If I make a mistake please correct me

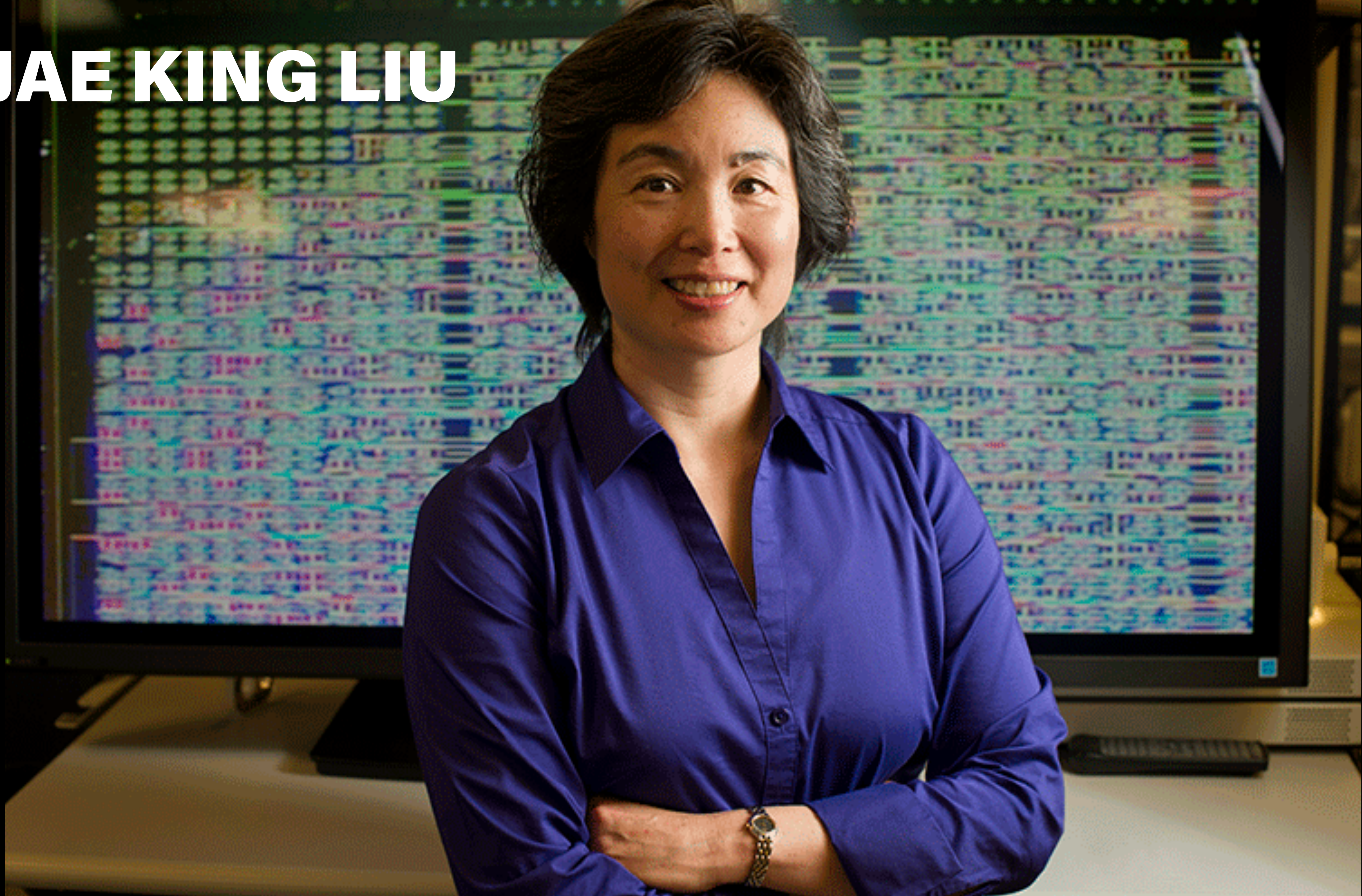
Going on as if it did not happen is actually less respectful than making the correction

INCLUSIVE CLASSROOM?





TSU-JAE KING LIU



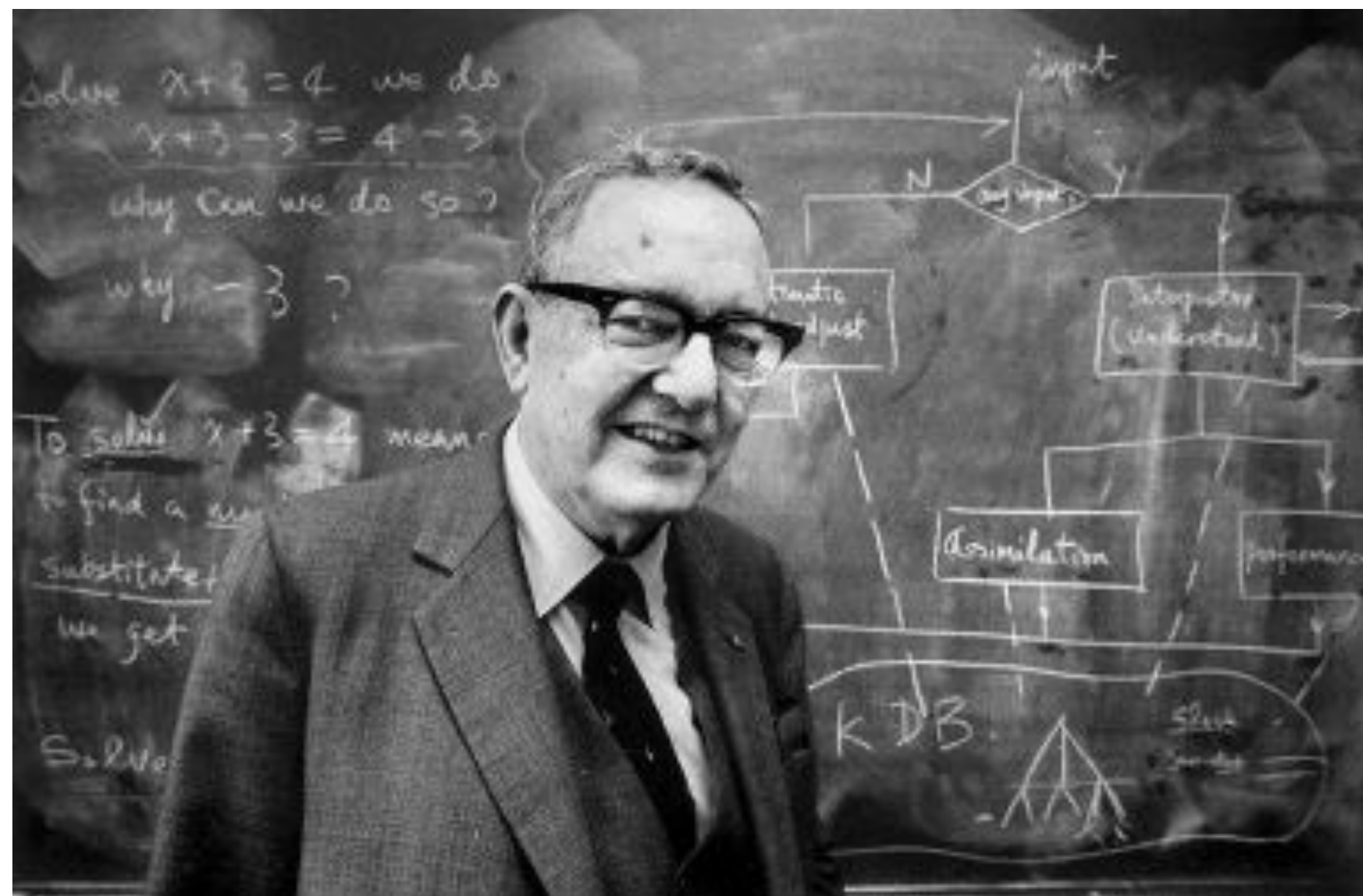


OSCAR DUBÓN



....And most important, we need not only the folks at [UC Berkeley or] MIT or Stanford or the NIH but also the mom in West Virginia tinkering with a 3-D printer, the girl on the South Side of Chicago learning to code, the dreamer in San Antonio seeking investors for his new app, the dad in North Dakota learning new skills so he can help lead the green revolution.

That's how we will overcome the challenges we face: **by unleashing the power of all of us for all of us.** Not just for those of us who are fortunate, but for everybody. That means creating not just a quicker way to deliver takeout downtown but also a system that distributes excess produce to communities where too many kids go to bed hungry. Not just inventing a service that fills your car with gas but also creating cars that don't need fossil fuels at all.



Everyone designs who
devises courses of action
aimed at changing
existing situations into
preferred ones

– Herb Simon



JACOBS INSTITUTE FOR DESIGN INNOVATION

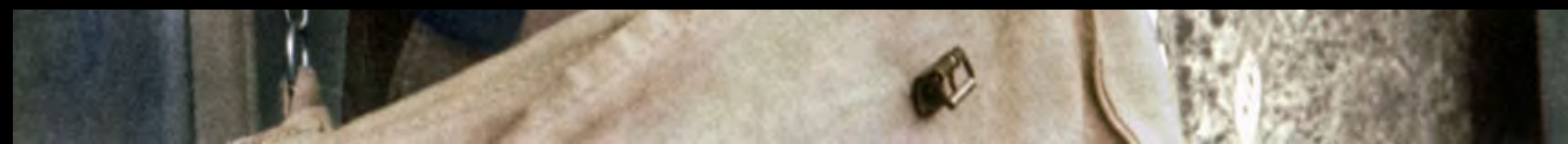
Educating leading innovators at the intersection of design and technology

CITRIS INVENTION LAB



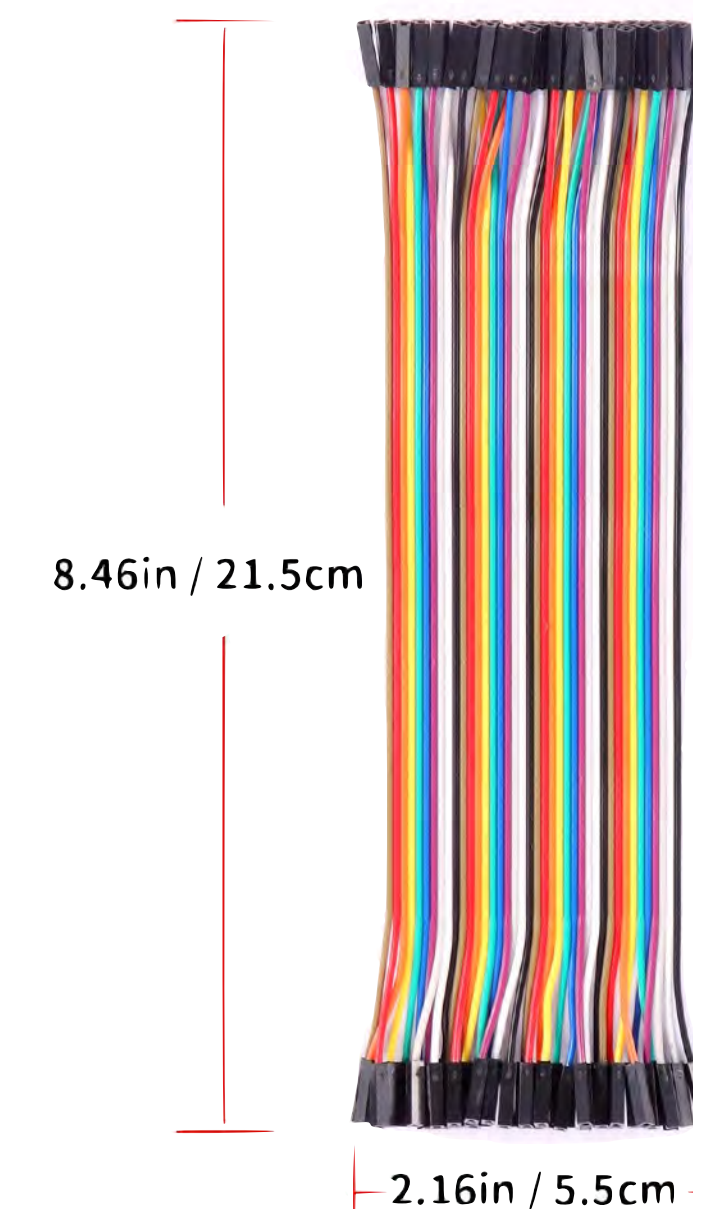
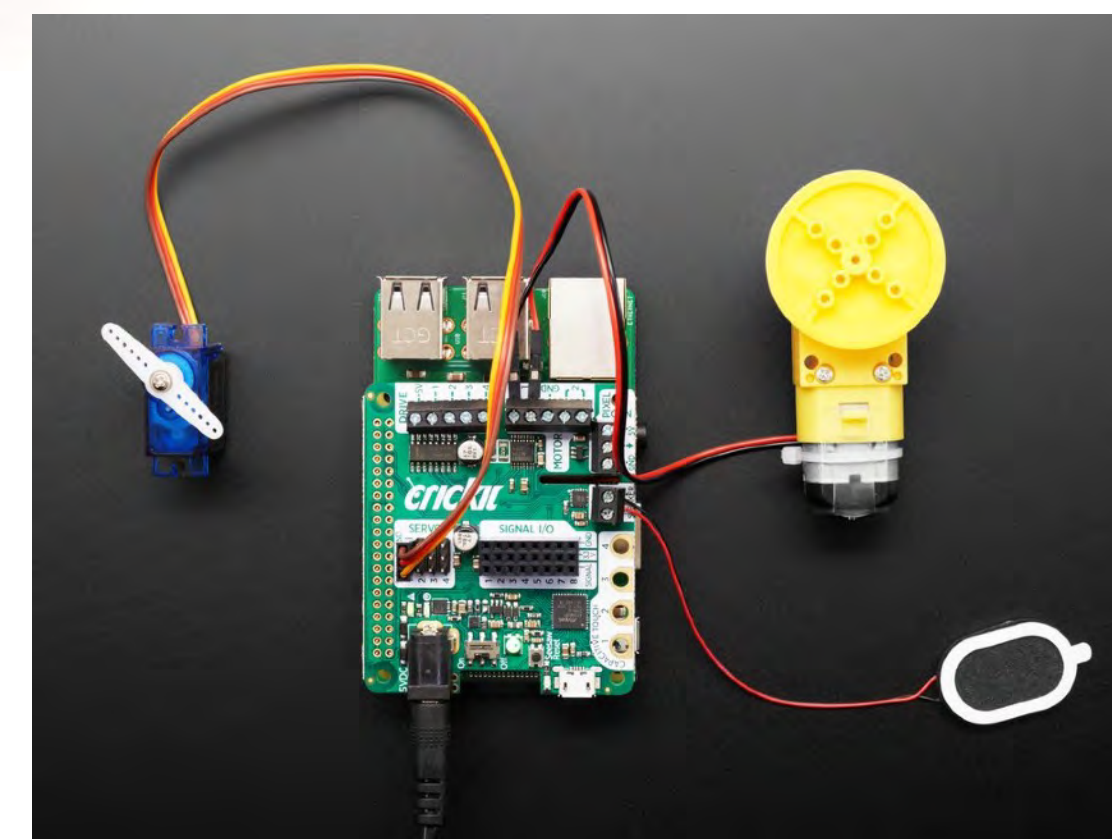
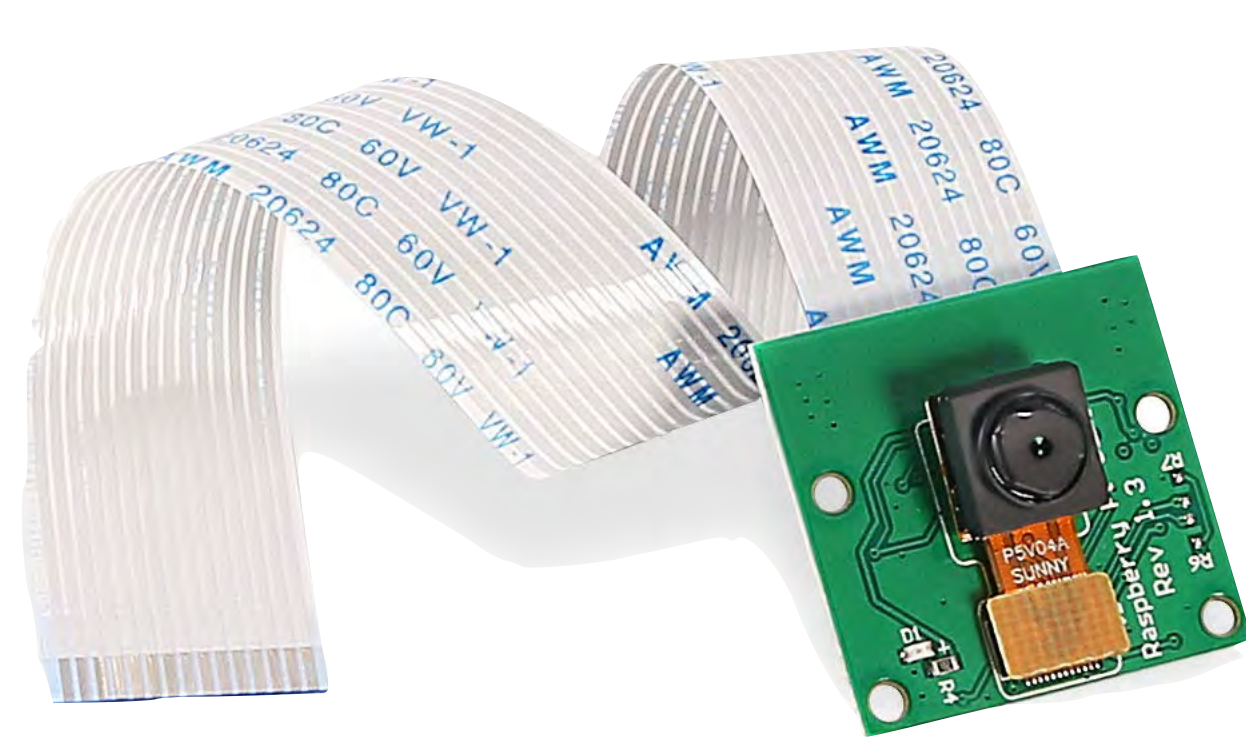
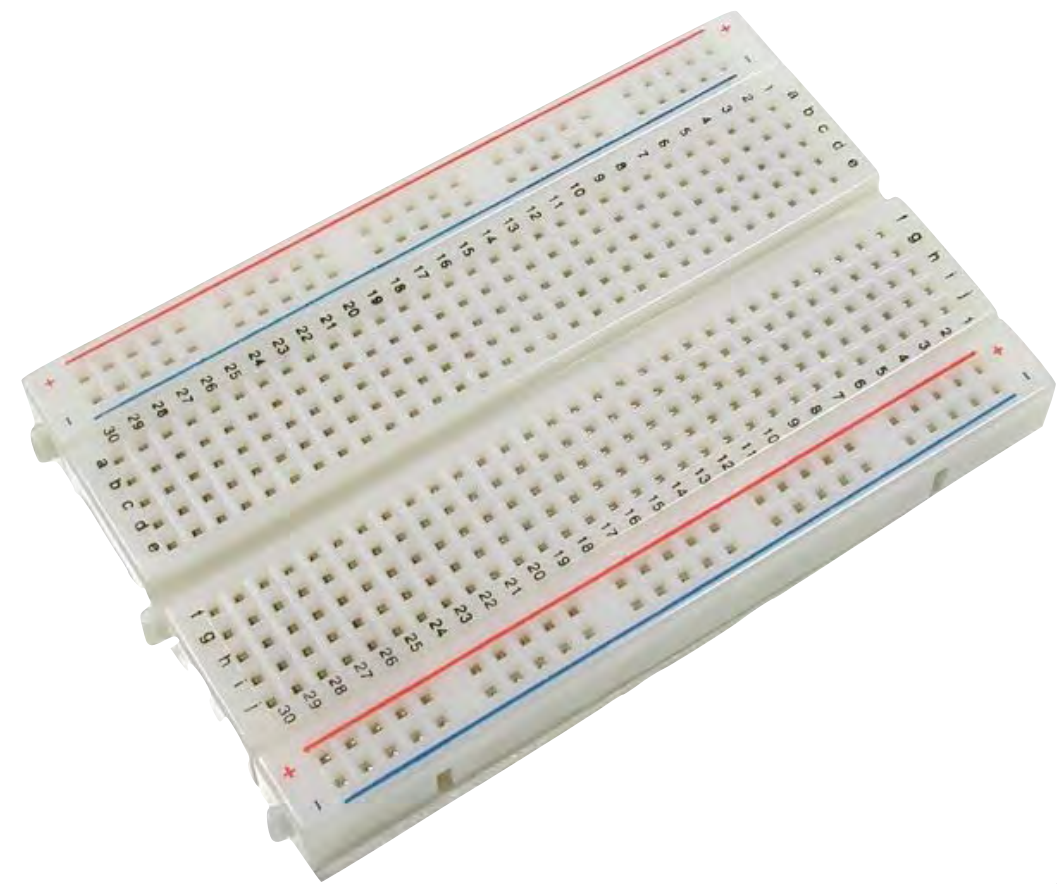


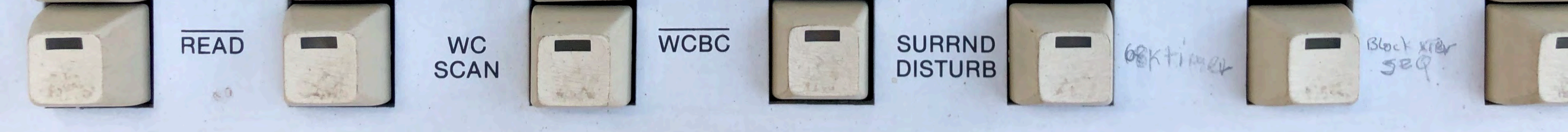
MAKER PASS











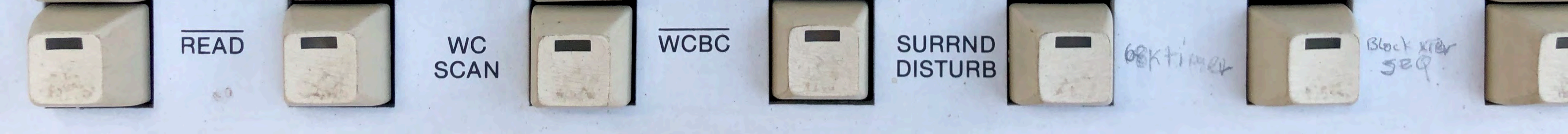
COURSE STRUCTURE

Encountering

Materializing

Designing

Critiquing



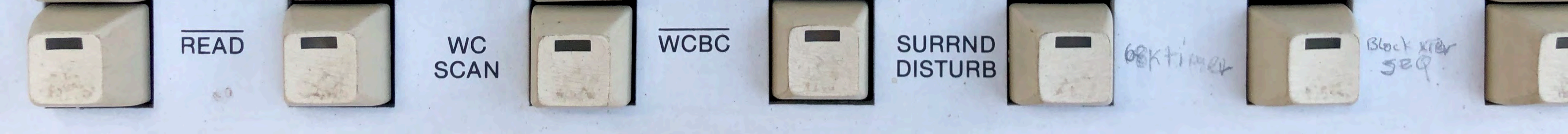
COURSE STRUCTURE

Encountering Perception

Materializing Perception

Designing Perception

Critiquing Perception



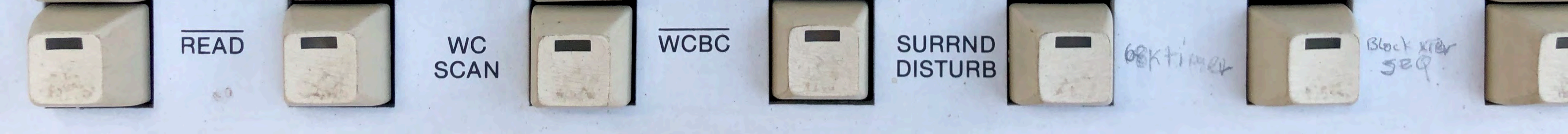
COURSE STRUCTURE

Encountering Conversation

Materializing Conversation

Designing Conversation

Critiquing Conversation



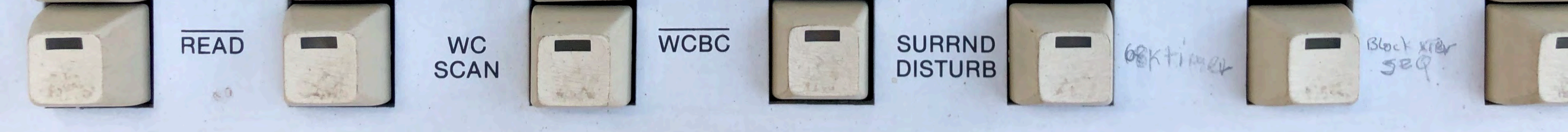
COURSE STRUCTURE

Encountering Extra-Real

Materializing Extra-Real

Designing Extra-Real

Critiquing Extra-Real



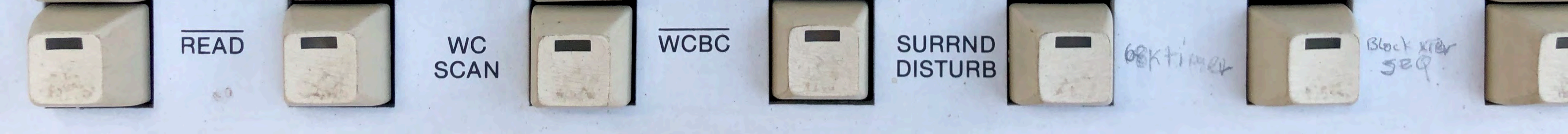
COURSE STRUCTURE

Encountering Robots

Materializing Robots

Designing Robots

Critiquing Robots



ENCOUNTERING

Readings

Historical Context

Expert Viewpoints

Encountering Activities



Shiry Ginosar



Jaron Lanier



Everyone is expected to read the readings

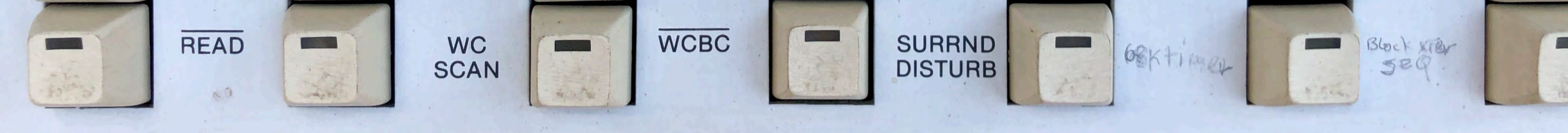
Two people will be selected for each reading to prepare a class presentation

You must submit a written reading response by 5pm the night before class

Each pair of students present one of the readings in class

Everyone is expected to engage in class discussions when readings are assigned

This counts towards your class participation grade



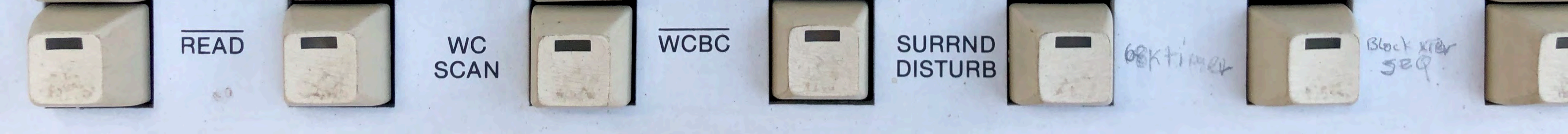
MATERIALIZING

Technology Lecture

API Handles and Initial Literacy

Studio Activity

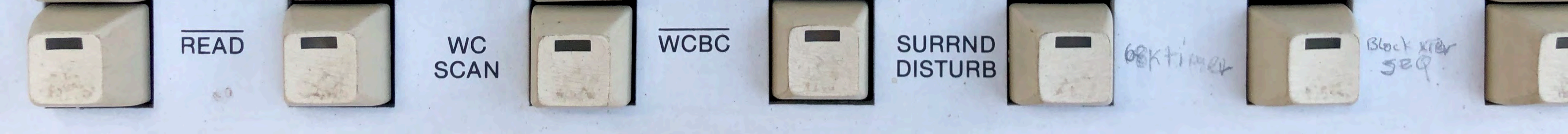
DESIGN assignment



DESIGNING

Responding to a Design Prompt as a Team

4-5 People per Team



CRITIQUING

In class critique

Video

Documentation



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[bCourses](#) [Piazza](#)

Course Description

Designing Emerging Technologies (DET) is an intensive, project-based studio course that focuses on the design of interactive artifacts realized through the process of deeply engaging with selected emerging technologies as rich creative material. Students are led through a sequence of projects of varying lengths (one to four weeks). Projects include both individual and team activities, with teams frequently changing in size and composition. DET introduces students to emerging technologies, supports them with expert viewpoints and selected literature, and quickly enables “handles” by which students first encounter a new technology, and then in teams, develop and refine final functional prototypes which are showcased and critiqued. Unlike classes that simply use a new technology as an endpoint, DET is designed to enable students to develop and refine the design skills that will enable them to be creative practitioners when encountering a range of current and future technologies. Engaging with these technologies as creative materials.

We will cover four creative materials this semester:

1. **Perception as a Creative Material:** Computer vision using [Google Cloud Vision](#) on Raspberry Pi
2. **Conversation as a Creative Material:** Speech recognition using [Google Cloud Speech-to-Text](#) and [Google Cloud Text-to-Speech](#) on Raspberry Pi
3. **Extra-Real as Creative Material:** virtual reality using [Oculus Quest](#)
4. **Robots as Creative Material:** autonomous mobility using [Husqvarna Automower](#)

COURSE STRUCTURE

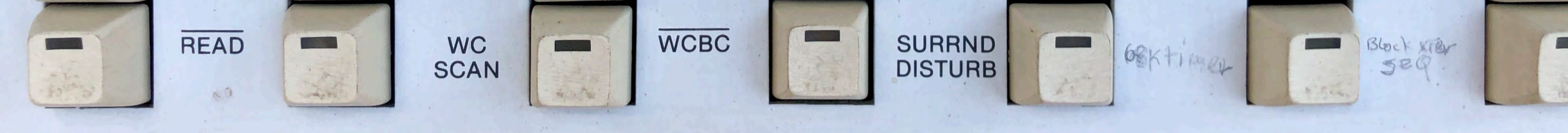
DET begins with an intensive pre-module on digital fabrication and Raspberry Pi technologies. Afterwards, the course is separated into four “blocks”: **perception**, **conversation**, **extra-real**, and **robots**, each engage with a specific emerging technology as a design material. For each block (i.e. Perception, Conversation, Extra-Real, and Robots) students will progress across four stages:

1. Encountering
2. Materializing
3. Designing
4. Critiquing

Coordinates

Course:	DESINV 290-6 and DESINV 190-6
Lectures:	Mon+Wed 10–12 in 210 Jacobs Hall
Instructors:	Professor Eric Paulos , Dr. Vivek Rao , and Dr. Adam Hutz
Final Presentations:	Tue 10 Dec during RRR week in 210 Jacobs
Public Showcase:	Wed 11 Dec during RRR week in 210 Jacobs
Final Materials	Due Friday 13 Dec at 11:59PM





YOU MUST!

30 Sep PROJ 01 Critique

21 Oct PROJ 02 Critique

13 Nov PROJ 03 Critique

10 Dec Final Critique

12 Dec Final Showcase

No overlapping classes — Attendance (classes are not recorded)

Work with your team in lab and outside of class





YOU ARE EXPECTED TO BUY ADDITIONAL MATERIALS

GRADING

20% PARTICIPATION

10% INDIVIDUAL DESIGNS

45% TEAM PROJECTS 1-3 (15% each)

25% FINAL PROJECT

RULES OF ENGAGEMENT



Be there!

Critique days mandatory attendance

If you are not in class or late we will deduct from your attendance grade.

There will be no exceptions

RULES OF ENGAGEMENT



Be active!

During the in class critique
everyone is expected to be
engaged in the discussion

RULES OF ENGAGEMENT



Be attentive!

no laptops, phones, electronics
out or used during critique and
selected other parts of class

SECOND HAND SMOKE



SECOND HAND SCREEN



RULES OF ENGAGEMENT



Attendance of all classes is mandatory

You are allowed **three absences for the semester without penalty (except critique days);** thereafter you will receive zero credit for the missed studio.

To receive an additional excused absence, you must ask in advance, and receive an acknowledgment from an instructor.

RULES OF ENGAGEMENT



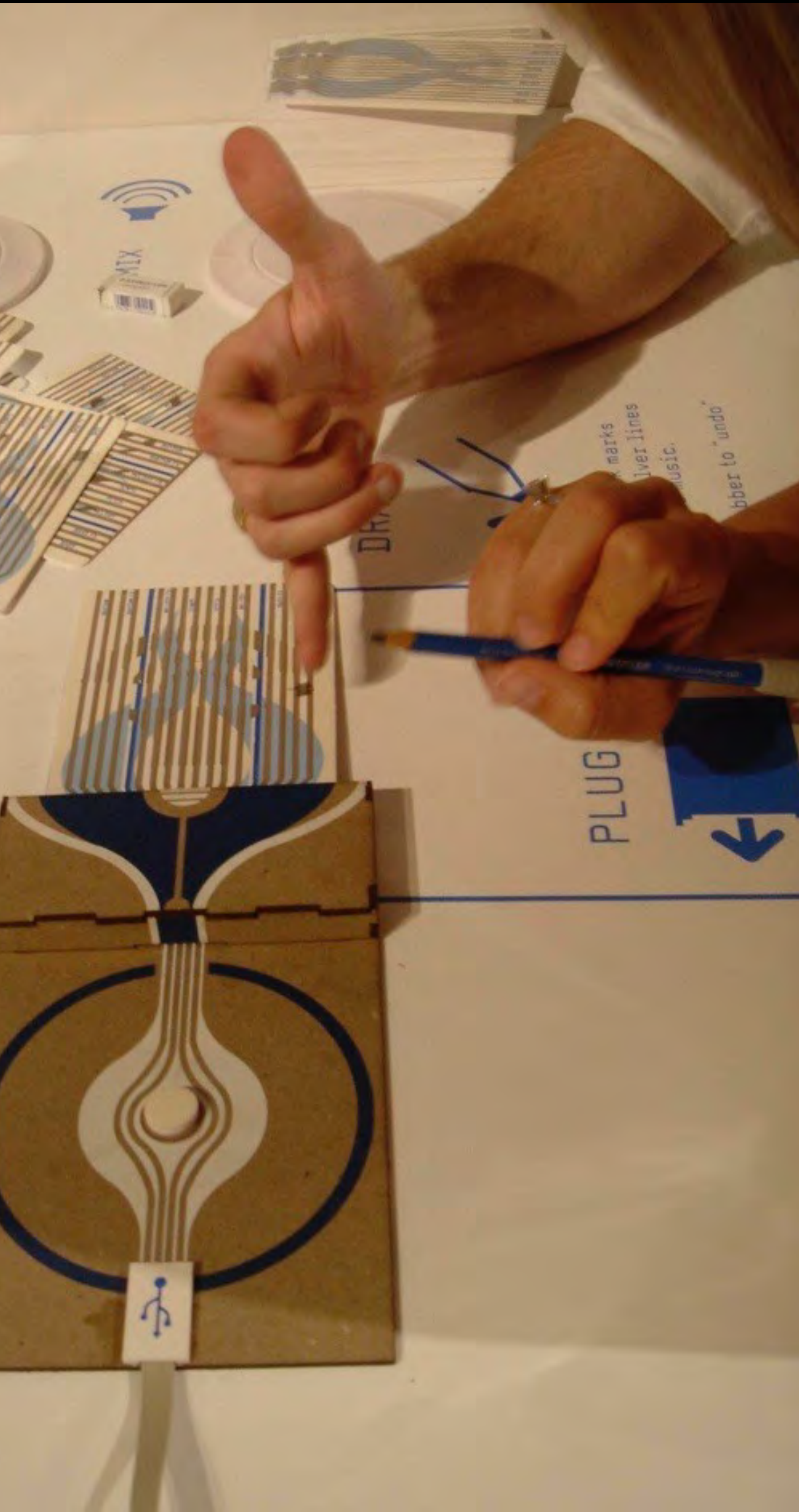
Excusable absences include family emergencies, job interviews, and presenting at a conference.

It **does not** include wanting to leave early for long weekend or vacation.

To receive credit for attendance, you must arrive on time.

No late assignments will be accepted

EVALUATION



Assignments, timely attendance, and in-class and team participation are a critical part of the grade

For projects done in teams, students will be graded on individual contributions as well as synthesis with the team

The process of exploration is as important as the final product, so it is important that you manage time well and devote time to working on the projects during the week

If class time is given as a worksession and is not put to good use, students' grades will be penalized.

DET

Designing Emerging Technologies

Fall 2019



HEADLINE ACTIVITY



Future Headlines 10 Years from now • 2029





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**Summer
Jewish
Adventure**
New York City



Brian Moore's Profile

Puget Sound

Picture



[Send Brian a Message](#)

[Poke Him!](#)

Connection

You are in a relationship with Brian.

Mutual Friends

You have 19 friends in common with Brian.

Access

Brian is currently logged in from a non-residential location.

Friends at Puget Sound



Kerala Hise



Jennifer
McFadden



Amy Graeber

Information

Account Info:

Name: Brian Moore
Member Since: May 21, 2005
Last Update: July 19, 2005

Basic Info:

School: Puget Sound '09
Status: Student
Sex: Male
Residence: Todd 311
Birthday: 09/02/1986
Home Town: Shorewood, WI 53211
High School: Shorewood Hi '05

Contact Info:

Email: bmoore@ups.edu
Screenname: DoctaBu
Mobile: 414.702.7426
Websites: <http://www.doctabu.com>
<http://www.livejournal.com/users/doctabu>
<http://www.flickr.com/photos/doctabu>

Personal Info:

Looking For: Friendship
Interested In: Women
Relationship Status: In a Relationship with Rachel Buethe (Tiny Tykes Day Care)
Political Views: Very Liberal
Interests: Film, Graphic Design, Video Editing, Computers, Bowling, Dancing, Acting, Singing, Listening to Decent Music, Sleeping, Being Crazy
Favorite Music: Beck, The Beatles, They Might Be Giants, Phoenix, Paul Simon, OutKast, Avenue Q, Radiohead, Red Hot Chili Peppers, Steely

2005 5.5 million users


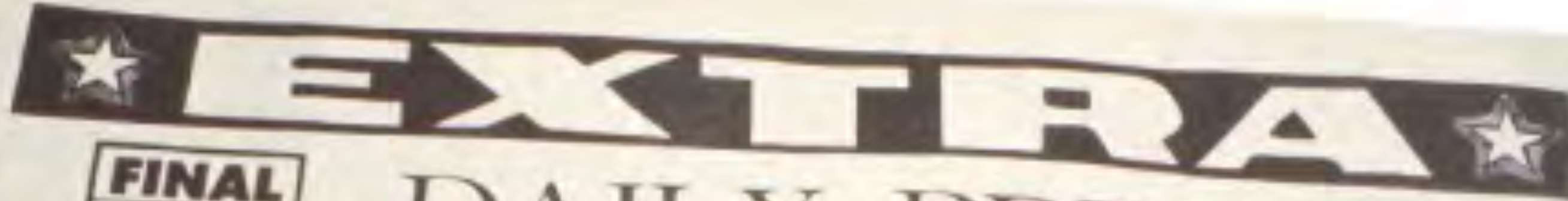




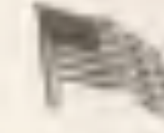
UberCab



Next-Generation Car Service



DAILY PRESS

[illegible]

† *Exemplary essay*
 Denny, Andrew, 1999

Statistical Analysis

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

THE INTERNET IS SHUTDOWN BY A COMPUTER BATTLING WITH DEPRESSION

Atom tests 'affected IQ'

NUCLEAR FALLOUT from the first atomic bomb test in New Mexico and, later, from tests in Nevada is directly responsible for a sharp decline in the intelligence of Americans in the Southwest, according to new research.

Radioactive iodine-131, which causes thyroid damage in the newborn, has impaired the mental development of a whole generation of American children. And the effects have been greatest in the far west of the United States, closest to the birth reactor.



black sea area, recorded a decline of 14 on the verbal scale and 13 on the mathematical in 1974-5. Over the same period, Ohio - some 2,000 miles to the east of the sea - had a fall of the salmon stocks - had a fall of just two points on the verbal scale, while the scores rose by four points.

The effect has persisted into the 1980s. In 1982, test scores for the US as a whole rose. Eight states went against the trend. "All were located in the west where welfare-to-work was recorded from the first Chinese."

WIFE-STEALING HORSE

By GEORGE EDWARDS.
A HUSBAND gave his
wife an ultimatum.
"Either your hair goes
or I will."

The woman replied, "I'll never part with this. Then she would not far a yellow."

And when she returned
her husband, Frank, had
left her alone.

Frank told a divorcee
woman in Kasselstein,
West Germany, that he
gave the horse to his wife
Liesella for their first
wedding anniversary.

1. 2010年10月1日起，凡在北京市行政区域内从事经营活动的纳税人，均应按照《北京市地方税务局公告2010年第11号》的要求，向主管税务机关申报纳税。

about the festival. Others who stayed all day at the stalls and restaurants spent the night with friends."

Liberals no longer
needed proper masks and
believe too tired for sex.

FROM 844-g: "One night, when we were making love, she suddenly said 'I forget to give Phil his vitamin pills.'"

Frank got his straight
 inside of her's straight.

Pioneer heads for the unknown

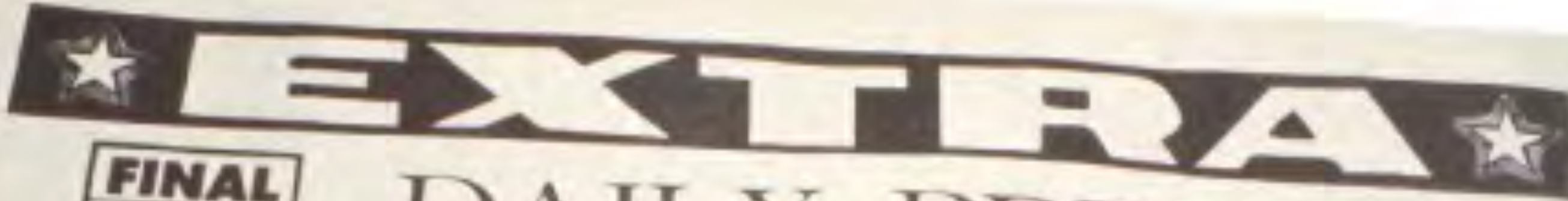
AFTER 11 years in space, the American spacecraft Pioneer 12 will seriously become the first man-made object to leave the solar system. But when it eventually do so it is far from certain and provides a nice opportunity for astronomers to observe

Last February Pioneer was far from the sun in the so-called "interstellar" plane Pluto - a possible definition for the solar system. If there is a catch, Pioneer, what highly eccentric and some of

This will be the last for the 1941-47 years. And President will not (then Nagorno's) other, until June

But will it ever then be used as the solar system? It will certainly not be clear of the heliopause, the region of space affected by the million-mile-an-hour "wind" of electrified particles streaming out from the sun. The heliopause extends to distances several times greater than Pioneer's present position, 2.8 billion miles from the sun. Further on



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4. *Journal of Management Education*, 2000, 24(1), 10-19.
 5. *Journal of Management Education*, 2000, 24(1), 20-29.

[†] *Chlorophyll a* concentration
Determined by HPLC, $\mu\text{g/g}$

Statistics 4 pages

LTJ 6 0000 416

STROLLER “FINDS” LOST DAD AT DISNEYLAND’S TOMORROWLAND

Atom tests 'affected IQ'

NUCLEAR FALLOUT from the first atomic bomb test in New Mexico and, later, from one in Nevada is directly responsible for a sharp decline in the intelligence of American youth, according to new research.

Radioactive iodine-131, which causes thyroid damage in the newborn, has impaired the mental development of a whole generation of American children. And the effects have been greatest in the far west of the United States, closest to the birth hot spots.



break test score, recorded a decline of 14 on the verbal test and 13 on the mathematical test (STA-6). Over the same period, Ohio — some 2,000 miles to the west of the test site and south of the fallout clouds — had a fall of just two points on the verbal test, while maths scores rose by four points.

The effect has persisted into the 1980s. In 1982, test scores for the US in a whole zone. Eight states were against the trend. "All were located in the west where college-131 was recorded from the first Chinese."

WIFE-STEALING HORSE

By GEORGE EDWARDS
A HUSBAND AND WIFE
with an introduction
"Either your Paris goes
or I will."

The woman replied, "I'll never part with Fritz. This ship would not be a galley."

And when she returned
her husband, FRANK, had
left for good.

Frank told a divorcee from a matrimonial West Germany, that he gave the nurse to his wife Lisaella for their first wedding anniversary.

● 2010年10月1日起，凡在北京市行政区域内从事经营活动的纳税人，其缴纳的税款，除另有规定外，均应在北京市缴纳。

about the island. When she stayed at Bay at the ready and immediately upon the night with Fritz."

Libretto to longer
cooked proper music and
become too tired for sex.

FRANK S. GREGG: "One night, while we were marching, the military band 'I tried to give Pita his diamond ring'."

From the New Studies
Unit of the University of Cambridge.

Pioneer heads for the unknown

AFTER 11 years in space, the Japanese spacecraft Pioneer 11 will actually become the first man-made object to leave the solar system. But when it will actually do so is far from certain and provides a nice opportunity for astronomical hot-spotting.

Last Tuesday Pioneer was a far from the sun to the so-called "interim" planet Pivo - a possible definition of the solar system. But there is a catch: Pivo's orbit is highly eccentric and some of

There will be one last for the 1991-92 season. And President will not return. Nagorno's chief, said June 18.

But will it even then be out of the solar system? It will certainly not be close of the heliopause, the region of space affected by the million-mile-an-hour "wind" of electrified particles streaming out from the sun. The heliopause extends to distances several times greater than Pioneer's present position, 28 billion miles from the sun. Farther on



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100 Years
Daily Press, 1895-1995

100 Years
Daily Press, 1895-1995

100 Years
Daily Press, 1895-1995

PERSON MARRIES A SELF-DRIVING CAR
CLAIMING, "IT JUST GETS ME"

Atom tests 'affected IQ'

NUCLEAR FALLOUT from the first atomic bomb test in New Mexico and, later, from tests in Nevada is directly responsible for a sharp decline in the intelligence of American youth, according to new research.

Radioactive iodine-131, which causes thyroid damage in the newborn, has impaired the mental development of a whole generation of American children. And the effects have been greatest in the far west of the United States, closest to the high test area.



Tests will now, according to a decline of IQ on the verbal test and 1.5 on the mathematical test. Over the same period, Ohio - some 2,000 miles to the west of the test area - had a fall of just two points on the verbal test, while middle scores rose by four points.

The effect has persisted into the 1980s. In 1982, test scores for the US as a whole rose. Eight states went against the trend. "All were located in the west where fallout-131 was recorded from the first Chinese test," said a source.

WIFE-STEALING HORSE

By GEORGE EDWARDS
A HUSBAND gave his wife an ultimatum: "Either your horse goes, or I will."

The woman replied: "I'll never part with Fritz. Then she went out for a gallop."

And when she returned, her husband, Frank, had left for good.

Frank told a divorce court in Kalamazoo, West Germany, that he gave the horse to his wife, Lisette, for their first wedding anniversary.

"It was a bad mistake," he said.

about the animal. When she stayed all day at the stable and sometimes spent the night with Fritz."

Lisette no longer cooked proper meals and became too fond of sex.

Frank said: "One night, when we were making love, she suddenly said: 'I want to give Fritz his wedding gift.'"

Frank got no divorce because of her "unpleasant."

Pioneer heads for the unknown

AFTER 11 years in space, the Russian spacecraft Pioneer 12 will finally become the first man-made object to leave the solar system. But when it will actually do so is far from certain and provides a nice opportunity for astronomical hot-spitting.

Last Tuesday Pioneer was as far from the sun as the so-called "interstellar" planet, Pluto - a possible definition of leaving the solar system. But there is a catch. Pluto's orbit is highly eccentric and some of it

will be the last for the last 17 years. And Pioneer will not cross Neptune's orbit until June 19.

But will it ever then be out of the solar system? It will certainly not be clear of the heliosphere, the region of space affected by the million-mile-an-hour "wind" of electrified particles streaming out from the sun. The heliosphere extends to distances several times greater than Pioneer's present position, 2.8 billion miles from the sun. Further still



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Daily Press, New York

NEW YORK CITY

ALL POLITICIANS NOW REQUIRED TO PARTICIPATE
IN YEAR-LONG IMMERSIVE VR TRAINING TO BUILD
EMPATHY AND GAIN PERSPECTIVE

Atom tests 'affected IQ'

NUCLEAR FALLOUT from the first atomic bomb test in New Mexico and later, from tests in Nevada is directly responsible for a sharp decline in the intelligence of American youth, according to new research.

Radiation from the atomic bomb, which causes thyroid damage in the newborn, has impaired the mental development of a whole generation of American children. And the effects have been greatest in the far west of the United States, closest to the bomb test area.



Tests were made, recorded a decline of IQ on the verbal test and 15 on the mathematical test in 1974-5. Over the same period, Ohio - some 2,000 miles to the west of the test area and with no fallout clouds - had a fall of just two points on the verbal test, while middle scores rose by four points.

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Lisaella, no longer needed proper meals and became too tired for sex.

Frank said: "One night, when we were making love, she suddenly said: 'I want to give Fritz his freedom'."

Frank got no sexual satisfaction from his wife.

Pioneer heads for the unknown

AFTER 11 years in space, the American spacecraft Pioneer 12 will finally become the first man-made object to leave the solar system. But when it will arrive - or go at all - is far from certain and provides a nice opportunity for astronomical hot-spitting.

Last Tuesday Pioneer was as far from the sun as the so-called "outermost" planet, Pluto - a possible definition of leaving the solar system. But there is a catch. Pioneer's orbit is highly eccentric and some of it

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**ANOTHER CURE TO CANCER FOUND BY
DANCER SCIENTIST TEAM WHO PHYSICALLY
NAVIGATE AR CELL STRUCTURES**

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Frank told a divorce court in Kalamazoo, West Germany, that he gave the horse to his wife, Lisette, for their first wedding anniversary.

"It was a bad mistake," he said in the courtroom.

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Lisette, no longer needed proper meals and became too tired for sex.

Frank said: "One night, when we were making love, she suddenly said: 'I want to give Fritz his freedom gift.'"

Frank got no divorce because of her "unreasonable" demand.

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5 min

Groups

3–4 ideas

1 idea per sticky note

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Future technology ...

IT'S 2029

Perception



Conversation



Extra-Real



Robot

