

Education and the Future of Software Freedom

Erin Rose Glass LibrePlanet 2023

March 18, 2023

"Touch Points" by Dianne Twombley. Permission granted by the artist. www.diannetwombley.net.





EDUCATION AND THE FUTURE OF FREE SOFTWARE 101

WINTER 2023 | MIT

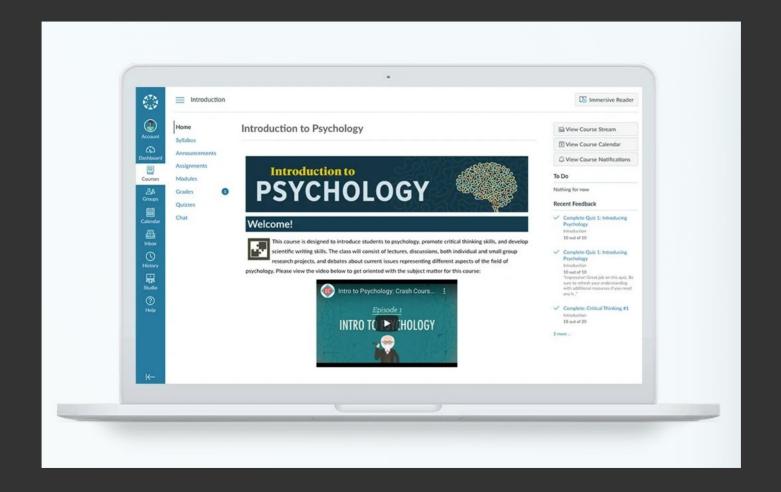
SYLLABUS

Dr. Erin Rose Glass

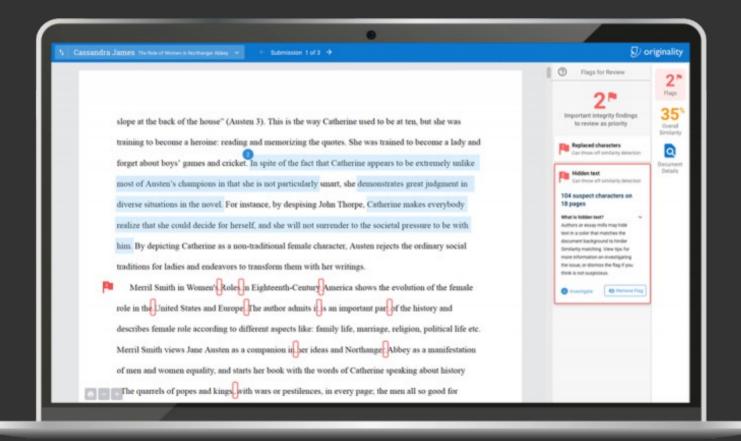
HOUSEKEEPING

- LEARNING OBJECTIVES
- REQUIRED EDUCATIONAL TECHNOLOGY
 - COURSE MATERIALS
 - LECTURES
 - EXAM

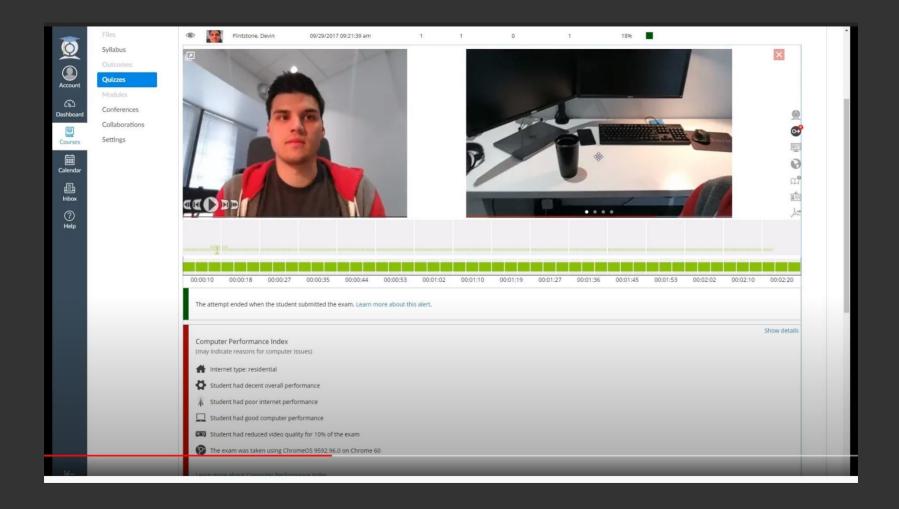
Learning Management System



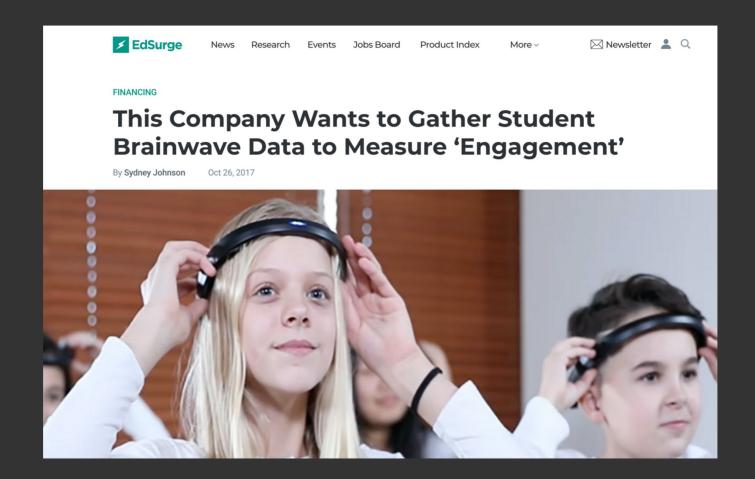
Plagiarism Detector



Remote proctoring



Extra credit: new edtech tools to pilot





Growing awareness of student surveillance



A 2013 report on open data by the McKinsey Global

"unlocking" as much as \$890 billion to \$1.2 trillion

annually.

Institute estimated that student data could be capable of

THE CHRONICLE OF HIGHER EDUCATION

■ SECTIONS FEATURED: The Jerks of Academe The Creativity Challenge The Recession-Proof College

TECHNOLOGY



Why a Plagiarism-Detection Company Is Now a Billion-Dollar Business

By Beth McMurtrie | MARCH 06, 2019



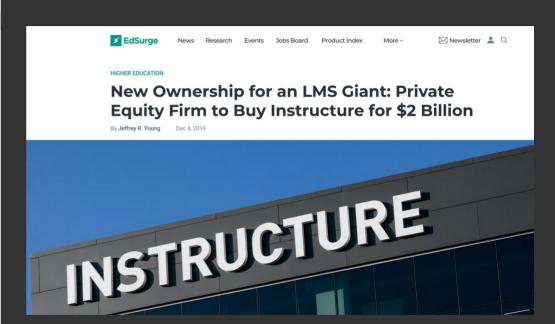
Sarah Weeden for The Chronicle

A faculty member and her students use Turnitin software to review papers in a writing class at the Rochester Institute of Technology

Stamping out student plagiarism is big business. How big? \$1.735 billion, to be exact. That's the price that Advance, a privately held media, communications, and technology company, will pay to purchase Turnitin, the 800-pound gorilla of plagiarism-detection services. Although not the largest ed-tech deal ever made, it is, in the words of one analyst, "massive."

So what does the deal, announced on

https://www.chronicle.com/article/why-a-plagiarismdetection-company-is-now-a-billion-dollar-business/



https://www.edsurge.com/news/2019-12-04-new-ownership-for-an-lms-giant-private-equity-firm-to-buy-instructure-for-2-b illion

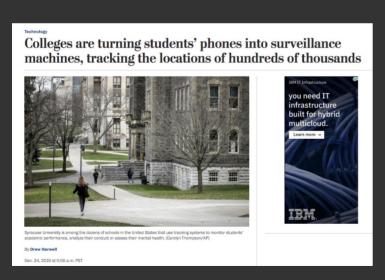
Educause 2019 Conference



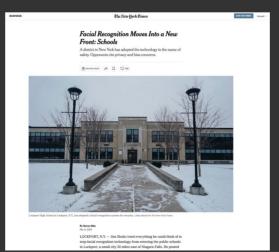
"If colleges actually bought all the tools sold here, just about every move made by students and professors in physical and virtual campuses would be tracked and analyzed in the name of efficiency. And the vision expands beyond that, as the vision is to create data profiles of students before they even arrive on campus and to continue data tracking long after they've graduated." (Jeffrey R. Young, *Edsurge 2019*)

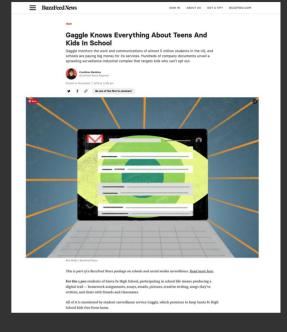
https://www.edsurge.com/news/2019-10-18-how-tech-companies-are-selling-colleges-on-mass-data-collection





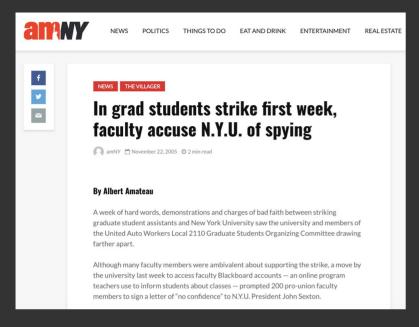














From the Open-Publishing Newswire

Publish to Newswire

Related Categories: California | Santa Cruz Indymedia | Education & Student Activism | Health

 $\underline{Housing \& Public Services} \mid \underline{Labor \& Workers} \mid \underline{Police State \& Prisons}$

Censorship By UCSC: Administration Blocks Network Access to PayUsMoreUCSC.com

by Spread The Strike!

Monday Feb 24th, 2020 2:23 PM

Access to payusmoreucsc.com, the website for Striking Workers at University of California at Santa Cruz (UCSC), has been blocked on the UCSC network.

On February 23, an update posted on GoFundMe by Jane Komori states, "In addition to blocking our website on their network, EVC Kletzer took the openly authoritarian step of forcing department chairs to run all communications with students through her. These petty actions have more in common with dictatorships than universities."



https://twitter.com/payusmoreucsc/status/ 1228421194619076608?lang=bg





43 Retweets 12 Quote Tweets 179 Likes

'I'm afraid': critics of anticheating technology for students hit by lawsuits

New technology meant to detect cheating by students taking tests at home could invade privacy, raise anxiety and be discriminatory by Zoë Corbyn

n 2020, a Canadian university employee named Ian Linkletter became increasingly alarmed by a new kind of technology that was exploding in use with the pandemic. It was meant to detect cheating by college and high-school students taking tests at home, and claimed to work by watching students' movements and analyzing sounds around them through their webcams and microphones to automatically flag suspicious behavior.

So <u>Linkletter</u> accessed a section of the website of one of the anti-cheating companies, named <u>Proctorio</u>, intended only for instructors and administrators. He shared what he found on social media.





One of the things that built Apple II's was schools buying Apple II's.

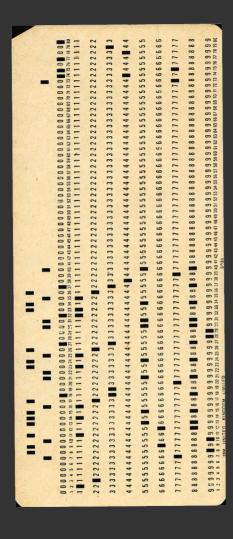
--Steve Jobs

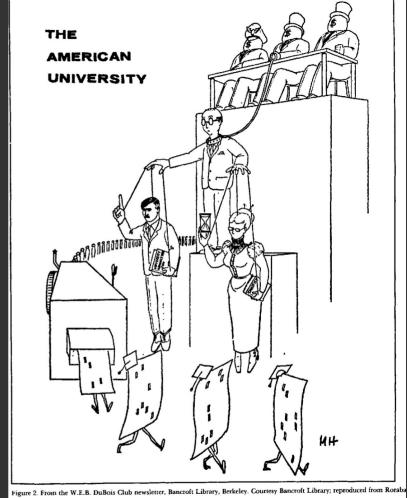


https://invidious.snopyta.org/watch?v=lsO_SIA7E8k

Video of Mario Savio

"Bodies Upon the Gears"
UC Berkeley -- December 2, 1964





From the W.E.B. DuBois Club newsletter, Bancroft Library, Berkeley via Lubar, Steven D.. ""Do Not Fold, Spindle or Mutilate": A Cultural History

the Punch Card." The Journal of American Culture 15 (1992): 43-55.





First "Research in Word Processing" newsletter (1983)



Bradford Morgan, Editor Liberal Arts Department

(605) 394-2487

South Dakota School of Mines and Technology Rapid City, South Dakota 57701-3995

Vol.1 No.1

May 1983

. WHY A NEWSLETTER?

Consider the great computer watershed: numbers on one side, letters on the other. The computer can manipulate and analyze both with equal ease. Indeed, the age of word processing in academic writing programs is just beginning to dawn across the nation, and more than a few institutions are awakening to the fact that a revolutionary change in curriculum is being incubated. This newsletter is a resource for guiding that application.

· · · · · · · · IEEE CONFERENCE IN OCTOBER · · · · · · · ·

"The Many Facets of Computer Communications" is the theme of this year's conference of the IEEE Professional Communication Society to be held in Atlanta, GA, October 19-21. The technology in written communications subdivision will include presentations on word processing, writing and editing on terminals, and personal computers vs. main utility. More information can be obtained by writing to the Institute of Electrical and Electronics Engineers, Inc., 345 E. 47th St., New York, NY 10017.

· · · · · · · · · WHY WORD PROCESSING?

For students and professors in a wide variety of disciplines, writing is—or should be—a primary tool for learning. The computer can help with all phases of the writing process, from the heuristic mustering of an idea-base to oft-neglected revision. It can provide a quantitative measure of a writer's style—or allow a professor with a standalone system to offer detailed, student-specific comment sheets. The word processor not only saves times, conserves labor, and solves problems, but it also reinforces the traditional mission of writing programs.

· · · · · · · A GET-ACQUAINTED BIBLIOGRAPHY · · · · · · ·

The following bibliography is intended as an introduction to word processing in writing programs. Space limitations called for a

Hugh Burns' 1979 Aristotelian inspired writing program

```
36118
       PRINT
24150
       PRINT
20136
       PRINT
20140
       PHINT. "A COMPUTER-PROMPTED INVENTION PROGRAM:"
99154
       PRINT, "----------
       PRINT
20179
       PRINT.
                        ARISTOTLE'S TOPICS'
30188
       PRINT.
38196
       PRINT
30200
       PRINT
       PRINT
36515
30550
       PRINT
20230
       PRINT, "HELLO AND WELCOME!"
30248
92250
       PRINT "PLEASE TYPE IN YOUR FIRST NAME: "!
P#544
       LINPUT 415
20272
       IF WISSES THEN 268
20262
       PRINT
20290
       PRINT "NOW, "MIS", PLEASE TYPE IN YOUR LAST MAME: "!
20300
       LIMPUT 425
24310
       IF 4250** THEY 300
20312
       IF 4250 TESTI THEY 3330
20320
       PRINT
24338
       PRINT
34340
       PRINT "WELL, "NIS" "NES", I HOPE I CAN BE OF SOME ASSISTANCE"
       PRINT 'TO YOU TODAY. IF WE TAKE EACH OTHER SERIOUSLY, YOU'LL'
       PRINT "THINK ASOUT YOUR TOPIC AS YOU NEVER MAVE BEFORE."
20 574
       PRINT
24 584
       PRINT
34398
       PRINT, "BEFORE HE BEGIN, "415". THERE'S AN OLO"
29488
        PRINT "SAYING ABOUT COMPUTER-ASSISTED INSTRUCTION. IT GOES:"
20410
       PRINT
39424
       PRINT, " GARBAGE IN, GARBAGE CUT!"
29438
       PRINT
        PRINT "IN GIMER JORDS, YOU AND I MUST HORK TOGETHER SO"
       PRINT "YOU CAN GET A GOOD STARY ON YOUR RESEARCH PAPER."
28454
24468
        PRINT
24478
       PRINT
20446
       ....
78494
       PRINT .. " (PRESS "RETURN" TO CONTINUE.)"
22504
       LIMPUT AS
20510
       **!**
7152H
       PHINT
24548
       PRINT "-OULD YOU LIKE TO REVIEW THE DIRECTIONS AND THE COMMANDS?
```

From Hugh Burns' dissertation "Simulating Rhetorical invention in English Composition Through Computer-Assisted Instruction"

Hugh Burns' 1979 Aristotelian inspired writing program

```
FEAR OF DEATH
HOLY ELECTRONICS! THAT'S WEIRD, I USED TO DATE A COMPUTER
INTERESTED IN FEAR OF DEATH.
              A COMMENT ABOUT PURPOSE:
              DURING THIS EXPLORATION PROCESS.
              YOU WILL BE ASKED TO CLAPIFY THE PUPPOSE OF
              YOUR PAPER ON FEAR OF DEATH.
              SO NOW WOULD YOU BRIEFLY DESCRIBE WHAT THE PUPPOSE
              OF YOUR PAFER BY COMPLETING
              THIS STATEMENT: THE PURPOSE OF THIS PAPER IS TO. . . .
EXAMINE THE FRAR OF DEATH PEOPLE HAVE, WHERE WE GET THOSE FEARS .
AND HOW HE MAY REDUCE THOSE FEARS
             FINE. WALT. YOU AND I WILL TALK AGAIN ABOUT YOUR
             PUPPOSE.
              RELAX NOW, WALT, AND ENJOY THIS BRAINSTOPMING SESSION.
```

From Hugh Burns' dissertation "Simulating Rhetorical invention in English Composition Through Computer-Assisted Instruction"

Jason Orendoff's recreation of Hugh Burn's Topoi



Aristotle's Topics

Hugh Burns

Release 1

Story File (Blorb, 683KB) Source Text (link) Play In-Browser (link) IF WE TAKE EACH OTHER SERIOUSLY, YOU'LL THINK ABOUT YOUR TOPIC AS YOU NEVER HAVE BEFORE.

Aristotle's Topics was created with Inform and has IFID 78FCAB04-80D5-46AF-94F9-77D1C9B3A7FC. To play a work like this one, you need an interpreter program: many are available, among them Gargoyle for Mac OS X or Windows; Windows Frotz or Windows Glulxe for Windows. Or you can play without downloading anything by following the 'Play In-Browser' link, using the Quixe interpreter. You'll need to have Javascript enabled on your web browser.



Home page

Aristotle's Topics

HELLO AND WELCOME!

PLEASE TYPE IN YOUR FIRST NAME: otto

NOW, OTTO, PLEASE TYPE IN YOUR LAST NAME: magnificent

WELL, OTTO MAGNIFICENT, I HOPE I CAN BE OF SOME ASSISTANCE TO YOU TODAY. IF WE TAKE EACH OTHER SERIOUSLY, YOU'LL THINK ABOUT YOUR TOPIC AS YOU NEVER HAVE BEFORE.

ARISTOTLE'S TOPICS

BEFORE WE BEGIN, OTTO, THERE'S AN OLD SAYING ABOUT COMPUTER-ASSISTED INSTRUCTION, IT GOES:

"GARBAGE IN, GARBAGE OUT!"

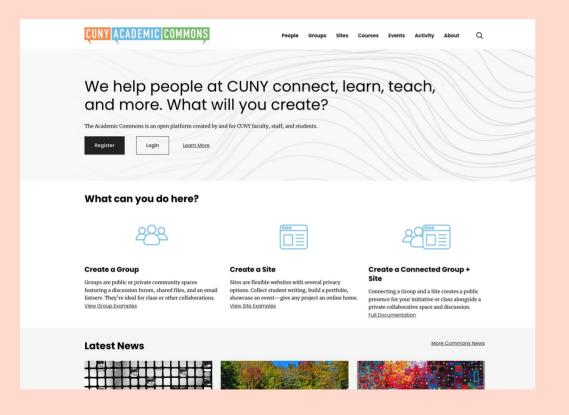
IN OTHER WORDS, YOU AND I MUST WORK TOGETHER SO YOU CAN GET A GOOD START ON YOUR RESEARCH PAPER.

Inform 7 (v. 2.1.2)

(PRESS "RETURN" TO CONTINUE.)

Play in browser here: https://jorendorff.github.io/topoi/play.html

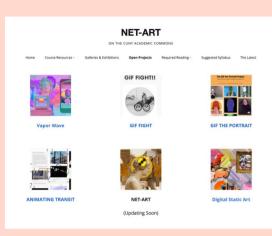


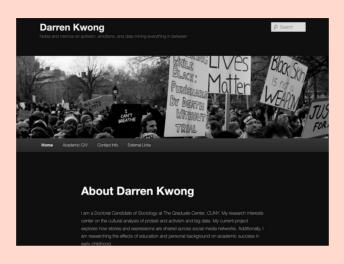


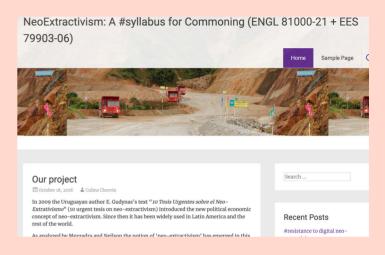
CUNY Academic Commons

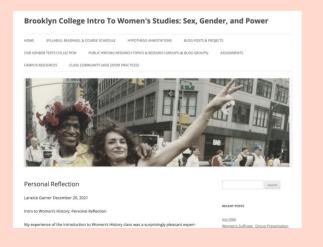
- Serves 25 colleges across all five boroughs of New York City.
- Open to 243,000 students enrolled each year.
- Has over 41,000 members, hosts almost 25,000 sites and 2,000 groups, 2,300 courses.

Example sites on the CUNY Academic Commons













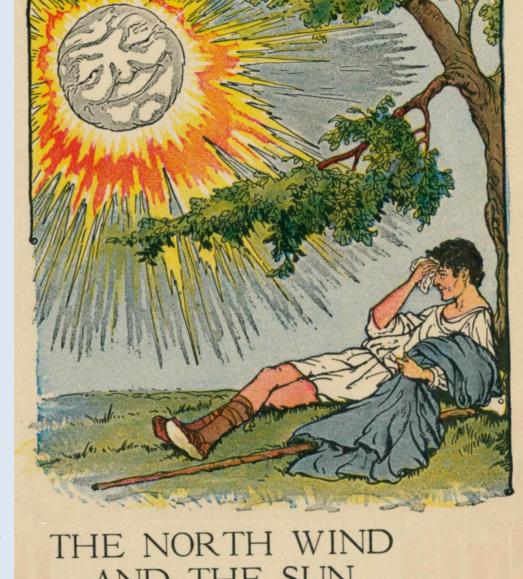
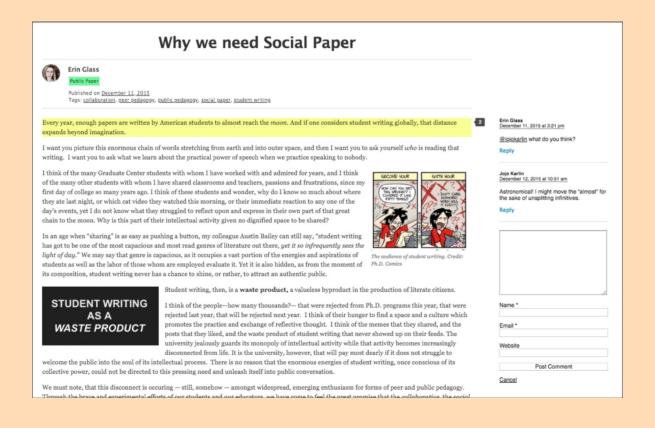


Photo of public domain illustration by janwillemsen via Flickr. CC BY-NC-SA 2.0.

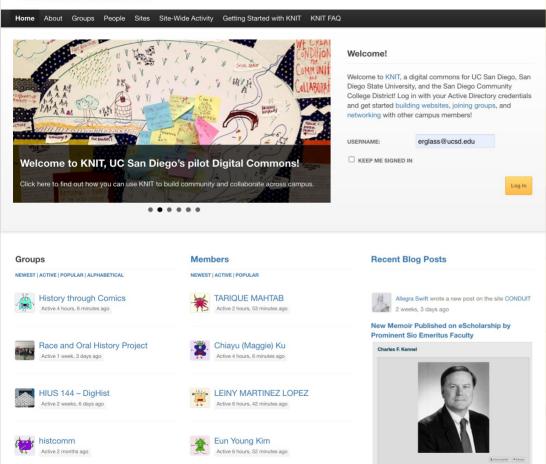
AND THE SUN

Social Paper

A platform for networking student writing and feedback Developed with Commons in a Box at CUNY Graduate Center







KNIT

- A digital commons for higher education in San Diego
- Serves 5 universities and community colleges across San Diego (UCSD, SDSU, and San Diego Community College District)
- More than 3,200 members, 92 groups, and 100 sites

Disability Studies at UCSD

A Transdisciplinary Working Group

Contact : disability-studies-l@ucsd.edu



About Who We Are Courses What Is Disability Studies? Events



TDS is a Working Group supported by the UCSD Center for Humanities, providing a forum to foster conversations about critical transdisciplinary disability studies and build relationships between graduate students, faculty, and staff.



Meet & Greets

TDS Meet & Greet events bring people together for informal gatherings to get to know each other face to face.





Reading Group

Our reading group meetings bring together graduate students, faculty, and academic staff from across campus for workshops to discuss selected readings, or offer feedback to group members on new work. Meetings are suitable for those who are new to disability studies, or those who are disability studies veterans.



Lectures and Talks

The TDS Working Group will present a public lecture featuring a visiting scholar whose work is advancing the field of critical disability studies nationally and of interest to the broader campus community.



Research projects

Science Studies @ UCSD

"God is a Cartographer"

These words were uttered by V.S. Ramachandran at Friday's 'Skepticism and Open-Mindedness in Science' event was telling us a story about examining an amputee. When he touched different spots on the

man's cheek with a O-tip, the

nations reported a tipoling sensation in his phaestom thumb and finger This made sense. On Penfield's map of the sensory cortex, the face is next to



map of the phantom hand on the man's face with a pen, he realized that it didn't actually correlate terribly well with the nouting visage of Penfield's homunculus. On the patient, the sensation was oncentrated in the lower part of the face. In Penfield's diagram, a languid finger points toward the

forehead, suggesting that the

As he told it on Priday, on the basis of this single clinical encounter on Penfield's sensory cortex map might be upside-down. This mini paradiem shift was later confirmed by painstaking experiment on the part of other scientists. An hour of clinical examination had quarturned decades

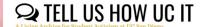
DECENT DOSTS

CATEGORIES



Wild Willow Farm + Promotoras de San Ysidro + **UCSD: Talleres de Compost** The Second Week of August: A Nutrition Discussion and A Composting Workshop

A San Ysidro Project Finally Coming to Life: The Living Rooms At the Border



Q Type Search Term..

Home

Our Story *

Exhibit 2017

Timeline F

Resources

Other Projects

FXHIBIT

FFFDBACK

News

To foster and contextualize conversations regarding incidents targeting specific underrepresented groups on our campus, the UC San Diego Library created Tell Us How UC It: A Living Archive. It is an alternative way to highlight awareness, provide a space for dialogue, document and preserve the events related to student activism at UC San Diego.

Tell Us How UC It: A Living Archive debuted on February 1, 2017 with a physical exhibit and a panel discussion on student activism. Each component of the original exhibit is compiled into this online exhibit.

HISTORY OF STUDENT ACTIVISM TIMELINE



Presents events and incidents from UC San Diego's history (and in some cases, history in general) that affected the campus climate for students in such a way that they were compelled to act or react.

STUDENT PERSPECTIVES



Creative works by students, during the time of the project, that offer an in-the-moment expression of community sentiments and experiences.

√FS



In-the-moment feedback about the exhibit or movement as a whole, whereby preserving realtime responses allows reflections of the past to converge with vital expressions of current sentiment.

PHYSICAL EXHIBIT



Images of the original temporary exhibit, video of the panel event of former student activists who still work on campus, and materials from the subsequent workshop, From Crisis to Change: How to Organize for Action.

Public archives

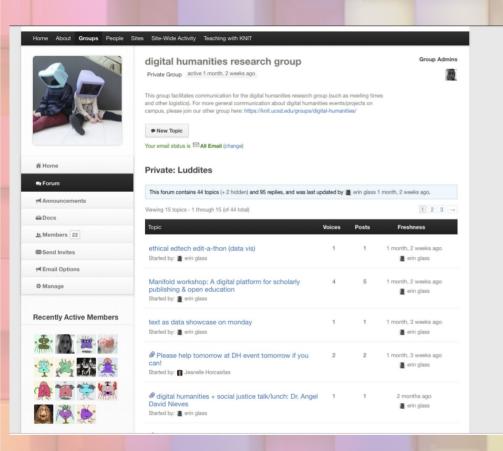
Patrolling the Past to Explore the (de)Colonial Gaze

Who controls knowledge? How is indigenous knowledge shared, preserved, and maintained?





Through an examination of the recently-digitized <u>Papua New</u>
<u>Guinea Patrol Reports</u> in the <u>Melanesian Archive</u> at the UC San
Diego Library, students dive into first-hand accounts from the post-



Collaborative tools

Colin Burke

computational social science, science studies, networks, grad student life



fome About Me

Working with Incomplete Data: Part 2

Posted on January 10, 2018 by Colin Burke

Happy New Year, all! I cannot believe it is already January 2018!

This post is the second part of my series on "Working with Incomplete Data," and I'll be going through another computational method for filling in the gaps in our data. This time around I will be talking about using machine learning to impute individuals' gender (male or female) using only their names. In going forward, I assume that you have some basic Python knowledge and are capable of running programs in Python. Continue reading \rightarrow

Posted in Computational Social Science | Tagged #, big data, classification, computational social science, data, data analysis, gender, machine learning, sociology | Leave a comment | Edit



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Academic blogs



RACE AND ORAL HISTORY PROJECT



LOCAL PARTNERS STUDENT RESOURCES PARTICIPANT REFLECTIONS ORAL HISTORIES CONTACT



STUDENTS DOCUMENT SAN DIEGO'S

UC San Diego's brand new Race and Oral History Project gives students a central role in documenting the histories of the diverse communities that make

Students will contribute to expanding archives on race and ethnic communities in San Diego with the primary goal of capturing stories of individuals who might not otherwise appear in the historical record. The digitized oral history collection will serve as a repository that safeguards the life stories of ordinary San Diegans, leaving an important legacy for future generations. The project aims to help establish and maintain strong connections between UCSD students and its surrounding communities while imparting important digital literacy skills to



Locally-engaged education

The Race and Oral History Project (ROHP) is a multi-faceted curricular experience for undergraduates to engage the history and contemporary life of understudied racial and ethnic communities in San Diego. The brand new undergraduate course will focus on the intersection of history, memory and life story narratives and the history of race in San Diego.



Oral history & digital training

Students will be trained in oral history method, theory, and interpretation as well as in digital literacy skills to help them share their reflections with the public and future potential participants. Students will work closely with the instructor in selecting and contacting interview subjects, organizing the interviews, and preserving and presenting the oral histories.



Preservation

The primary outcome of the course is to produce a collection of oral history interviews in audio and/or video format to be archived at the Geisel Library and made publicly available online. Students will work with library and technology specialists to preserve the collection of oral histories in the Library for future scholarship on San Diego.



Public Humanities

Our goal is to inspire students to consider how what they learn on campus is applied or experienced off campus and, in turn, how the histories of racial and ethnic communities in San Diego have much to offer all of us. A capstone event will bring together students, faculty, staff, and community members involved in the project to view public presentations and discuss future growth of the project.



HOME

ABOUT

RESEARCHERS

READINGS DISCUSSION

CONTACT

What if students shaped the information technologies of higher education?

KNIT R&D is a student research group dedicated to advising on the development of the academic digital commons KNIT based on research in political, educational, intellectual, and aesthetic issues in digital technology.

NOTHING SPECIAL

When I finished reading "Science's Pirate Queen" my one thought was. I think the reason why giant publications are so threatened by "Sci Hub" is not the fact that they are stealing, but the fact that they showed paid publication that they have nothing to offer. Let me explain jight now I could theoretically download any movie I wanted through piracy, but I still rather use Netflix, and it is not because I could get caught stealing, but because Netflix aside from the content. it also has something else to offer. commodity. To download something for free I will have to install a VPN, look READ MORE →

THE PUBLIC INTELLECTUAL.

Reflecting on Kathleen Fitzgerald's work, I find myself struck by her views on how the barrier to access academic material in an increasingly digital world isn't reliant on one factor-it's reliant on a multitude. Her writings explore how. why, and what happens when the academic knowledge interacts with the public as well. But to focus on one thing, I would say I am especially drawn to the section on "Public Intellectuals" were she argues about writing for a broader audience. There is section where she talks about how there's a perception that the public should not have access because they would not understand or care.

READ MORE →

KNOWLEDGE SHOULDN'T BE A PRIVILEGE

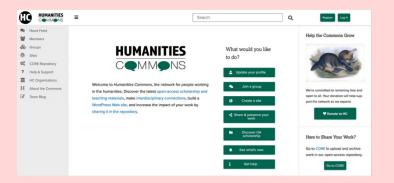
Kathleen Fitzpatrick's "Working in Public" lays out my dream world! All I have ever wanted is to merge the academic world with the every day one, because they are not as separate from each other as we tend to think, and in fact both would flourish even more if there were more spaces for them to listen, learn and grow from one another. This article resonated with me a great deal because I am the only one to have entered the world of higher education in my family, and only a few of my friends go or have gone to community college and experienced being

READ MORE →

KNOWLEDGE BEGETS LEARNING

I enjoyed Kathleen Fitzpatrick's, Generous Thinking: The University and the Public Good and find it interesting how her text was utilized in several ways, the first of which being the platform through which she introduced the community of Western scholars and their civilian counterparts to the potential benefits to be had should the universities embrace the ideology of open access platforms, and open their vaults of research, unknown gems and innovative ideas that we might find. The thought of all of the effort and endless hours of mind power students and professors have put into their work only for it to be locked away in some archive,

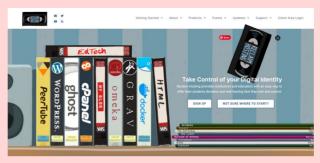
READ MORE →



Humanities Commons Hcommons.org



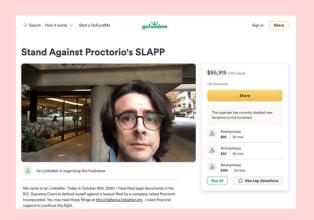
Open Edtech Collaborative Opened.ca



Reclaim Hosting Reclaimhosting.com



TRU Digital Detox digitaldetox.trubox.ca/



Community support for edtech critics



Gregory Donovan mydigitalfootprint.org/dissertation



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