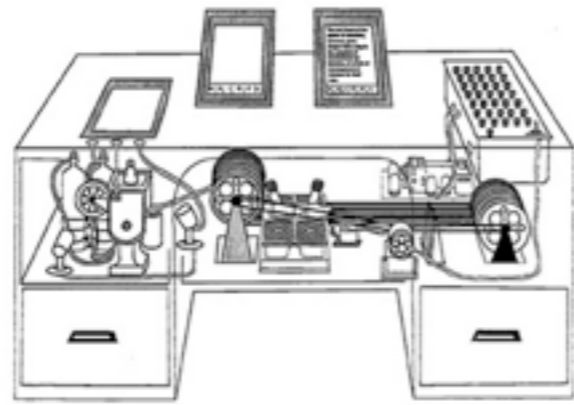


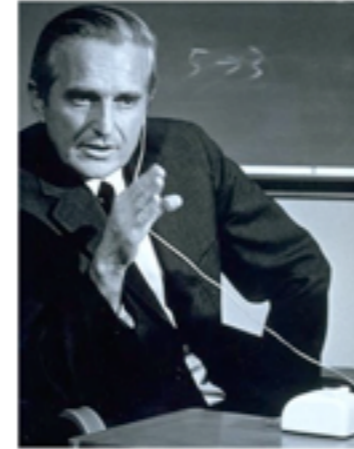
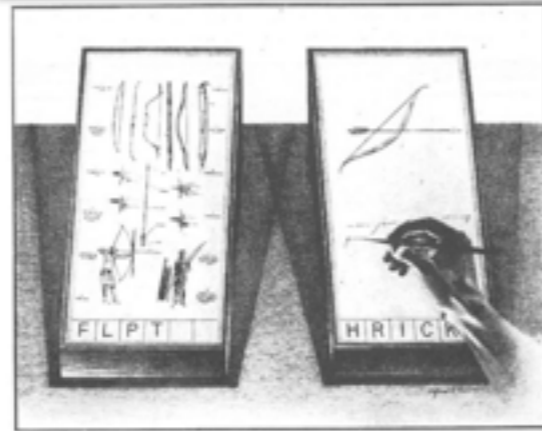
Metaphors, Models, and Flows: Elements for a Cartography of Technology In Learning

Ruben R. Puentedura, Ph.D.

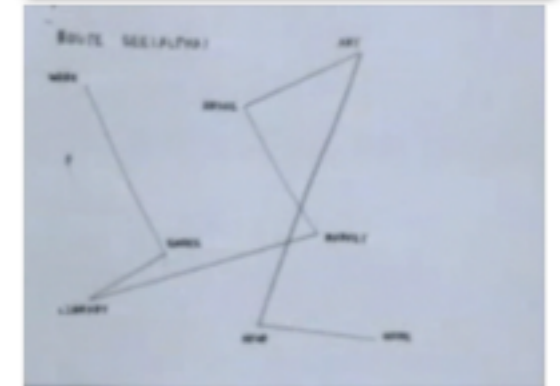
Metaphors 1: Computers, Children, and Learning



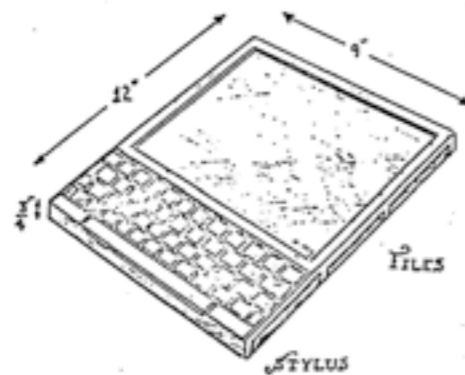
AS WE MAY THINK



a research center
for augmenting human
intellect

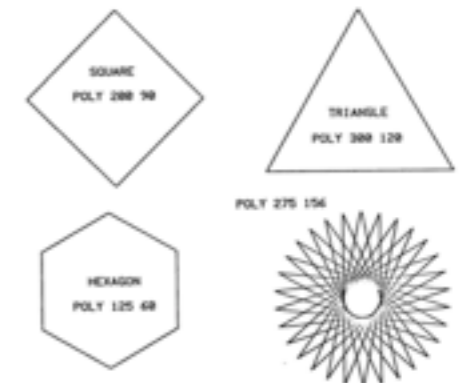


A Personal Computer for Children of All Ages



TO POLY :ANGLE :STEP
1. FORWARD :STEP
2. RIGHT :ANGLE
3. POLY :ANGLE :STEP
END

ON MAKING A THEOREM FOR A CHILD



Models 1: The SAMR Model

Transformation

Redefinition

Tech allows for the creation of new tasks, previously inconceivable

Modification

Tech allows for significant task redesign

Enhancement

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution

Tech acts as a direct tool substitute, with no functional change

Literacy and Vocabulary

Marzano: Six Steps to Effective Vocabulary Instruction

- Step 1: The Teacher Provides a Description, Explanation, or Example of the New Term
- Step 2: Students Restate the Explanation of the New Term in Their Own Words
- Step 3: Students Create a Nonlinguistic Representation of the Term
- Step 4: Students Periodically Do Activities That Help Them Add to Their Knowledge of Vocabulary Terms
- Step 5: Periodically Students Are Asked to Discuss the Terms with One Another
- Step 6: Periodically Students Are Involved in Games That Allow Them to Play with the Terms

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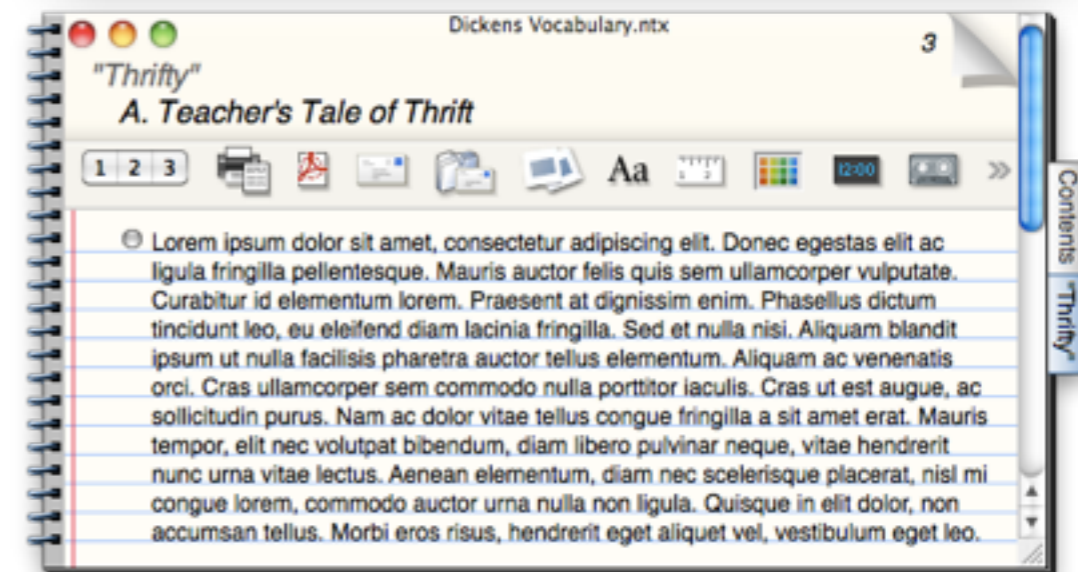
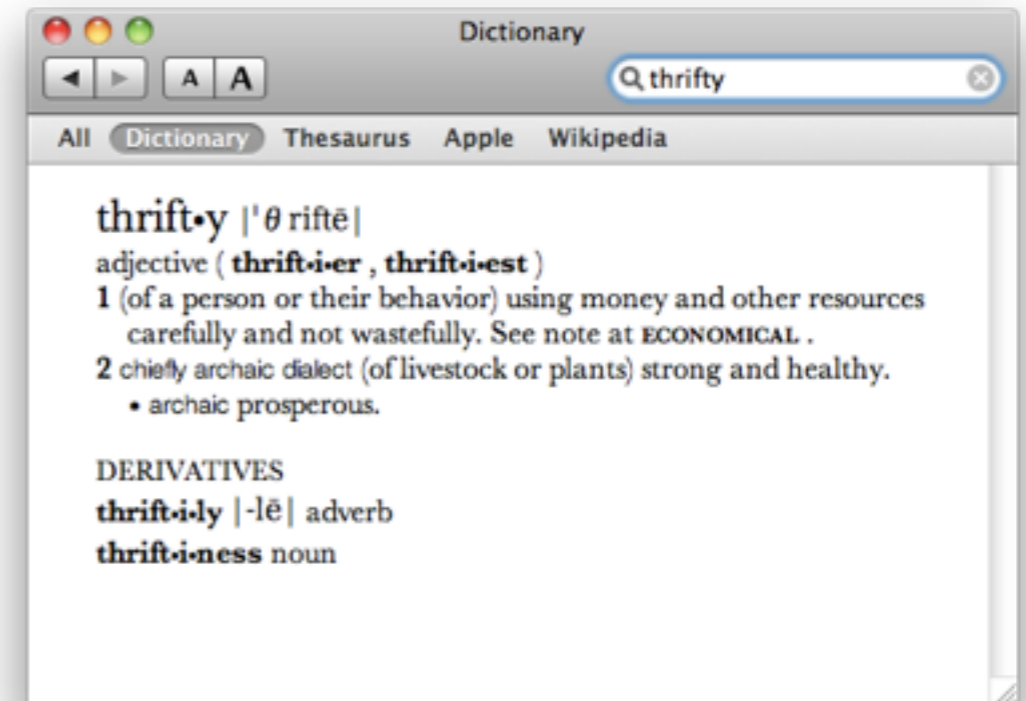
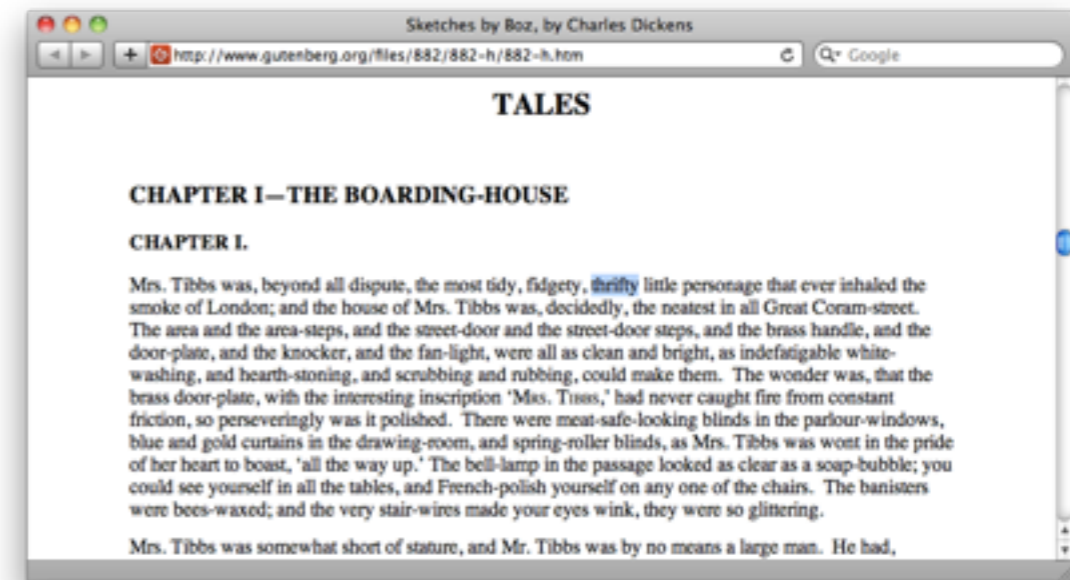
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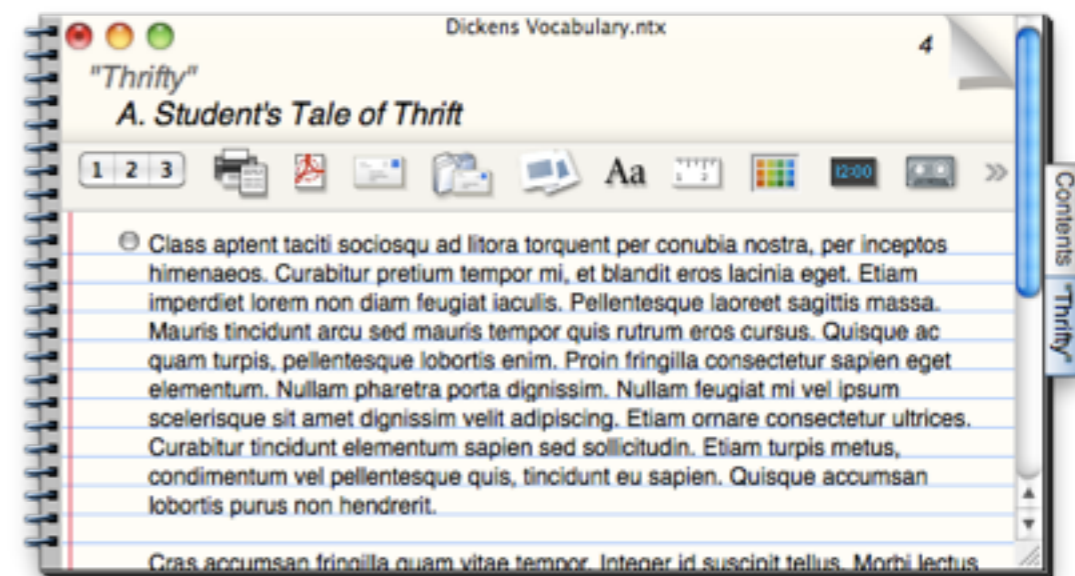
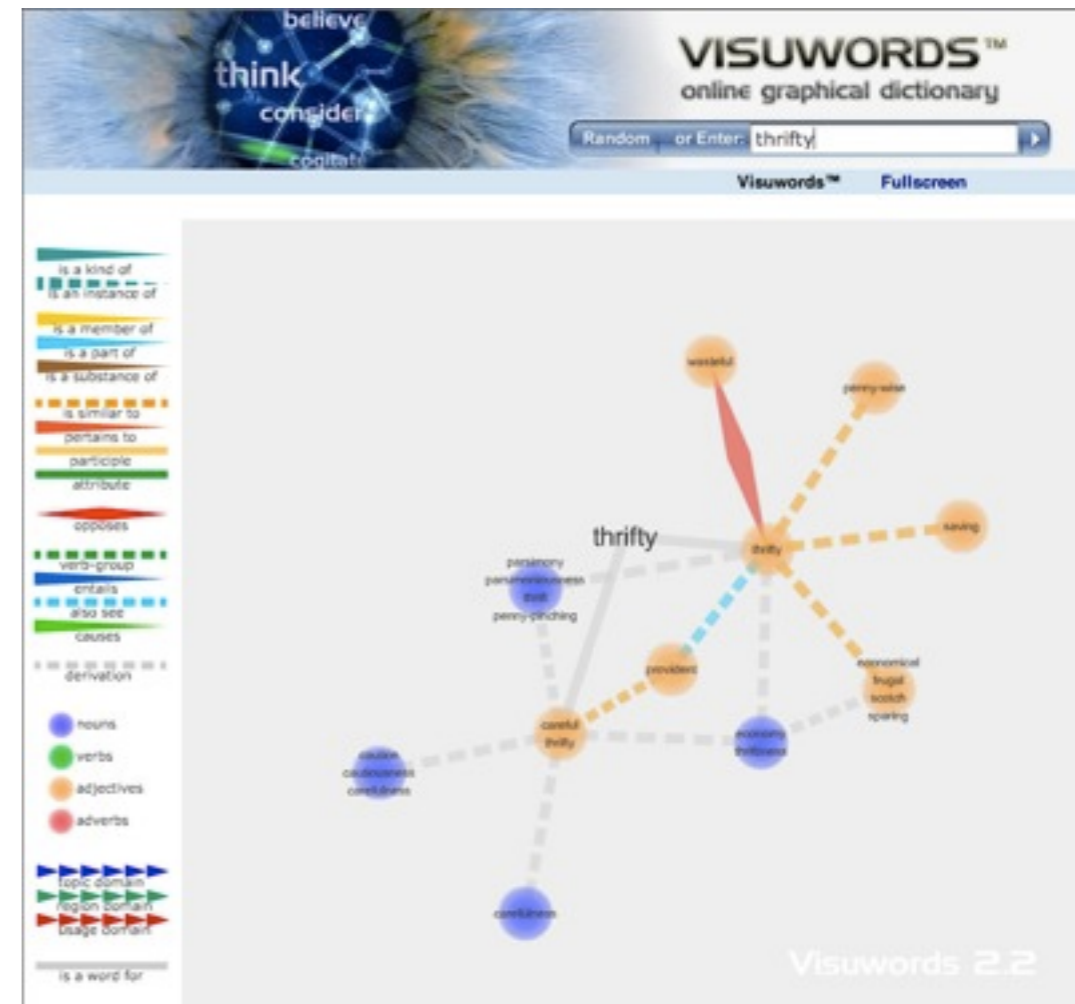
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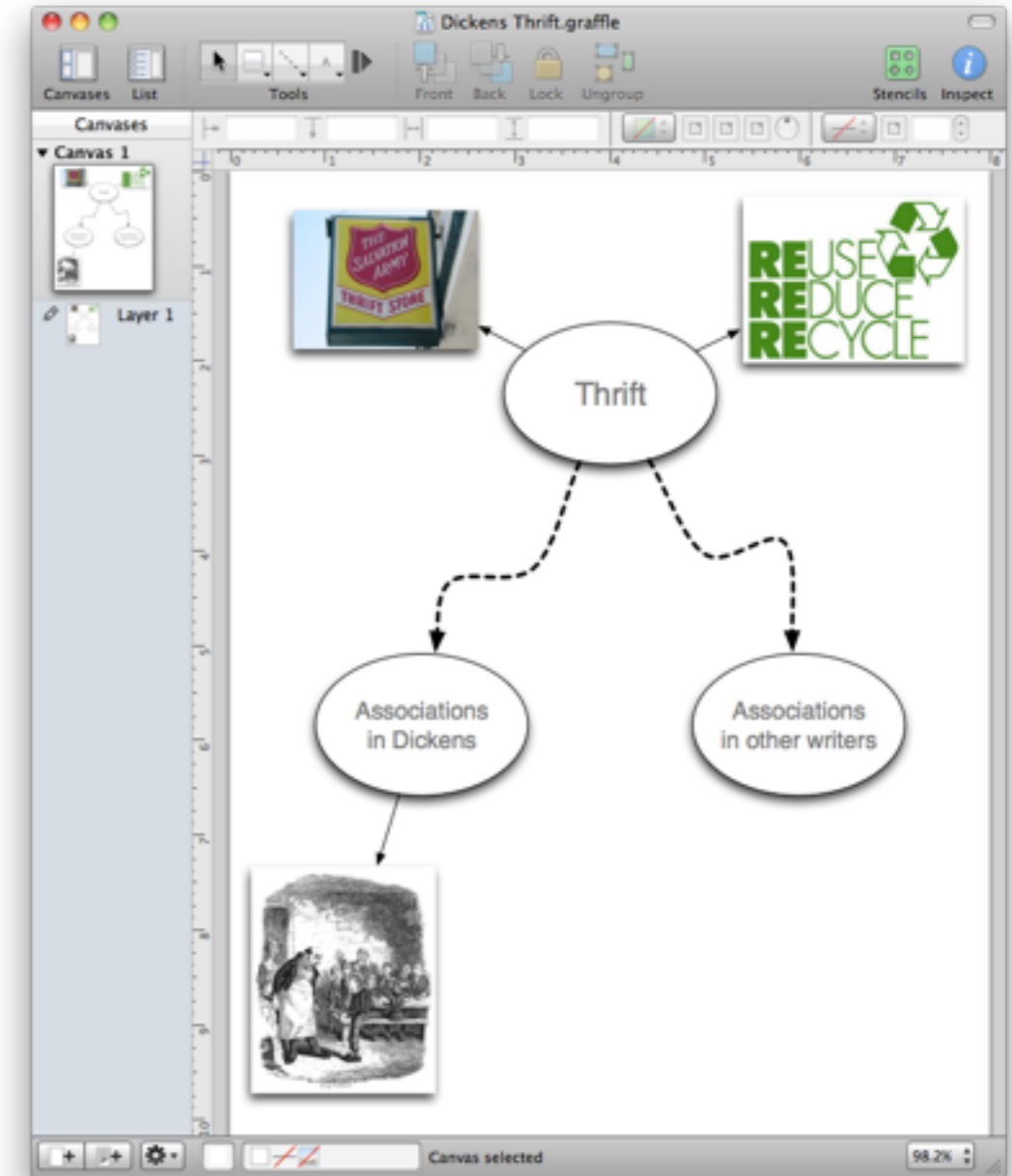
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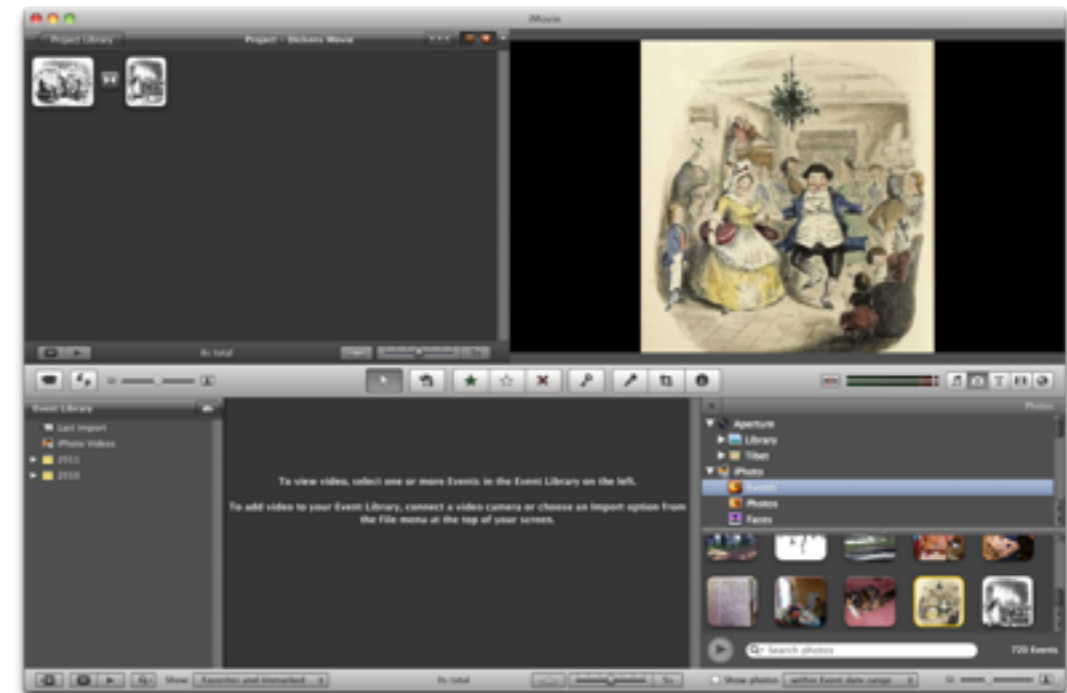
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The Student Historian

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The screenshot shows the BBC History website interface. At the top, there is a navigation bar with the BBC logo and links for News, Sport, Weather, Travel, TV, Radio, and More. Below this is a search bar and a 'History' header. A secondary navigation bar includes links for Ancient History, British History, World Wars, Historic Figures, Family History, History for Kids, and On This Day. The main content area is titled 'Egyptians' and features a large image of a golden Egyptian mask. To the right of the image is a text box: 'Around 5000 years ago the ancient Egyptians established an extraordinary and enduring civilisation. Enter their world.' Below the image is an 'expand all' button. A list of sub-topics is displayed with right-pointing chevrons: Overview, Death in Sakkara, Pyramids and Monuments, Mummification, Gods and Beliefs, Pharaohs and Dynasties, Daily Life, and Hieroglyphs. On the right side, there are two promotional boxes: 'More Ancient History' with a 'Hands On History: Ancient Britain' link, and 'History of Celtic Britain' with a link to a TV series. The footer contains the BBC logo, copyright information (© 2011), and a disclaimer: 'The BBC is not responsible for the content of external sites. Read more.' It also includes links for BBC Help, Accessibility help, Jobs, Advertise With Us, About the BBC, Contact Us, Terms of Use, and Privacy & Cookies.

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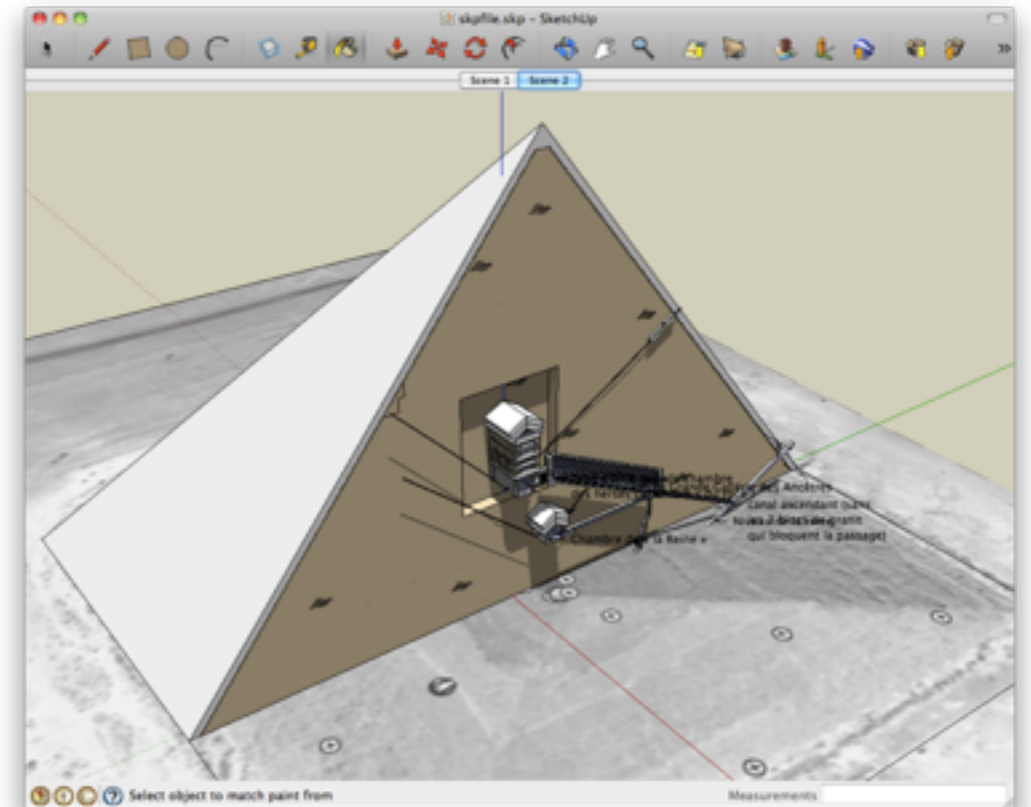
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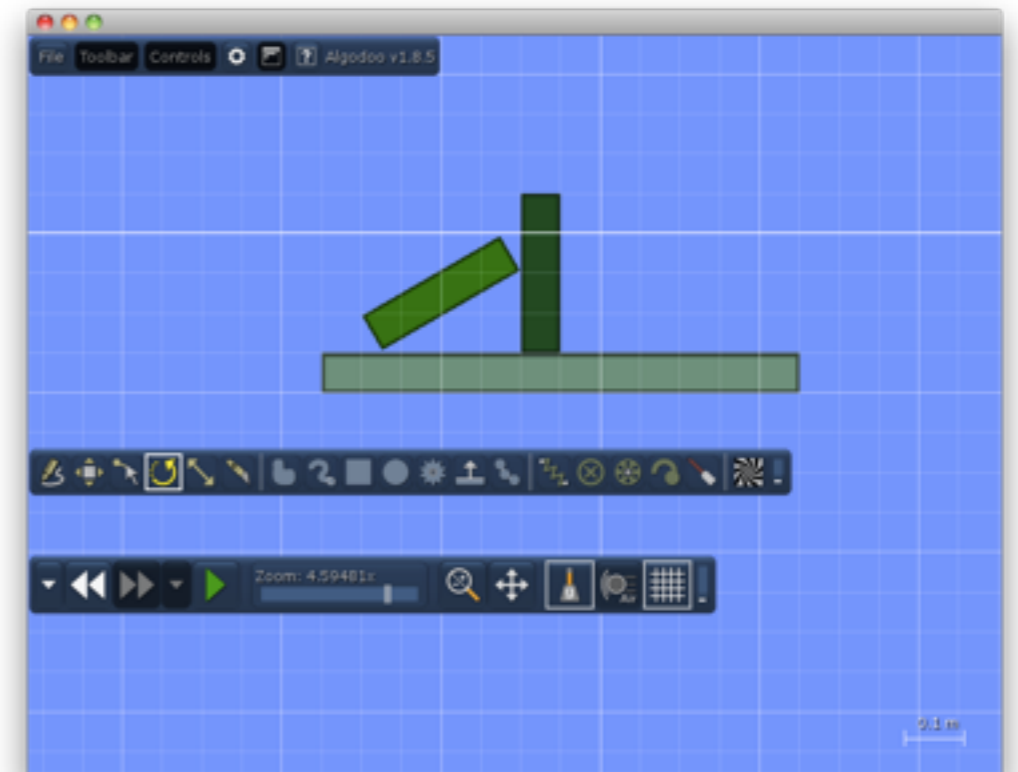
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Opening Up the Math Candy Store

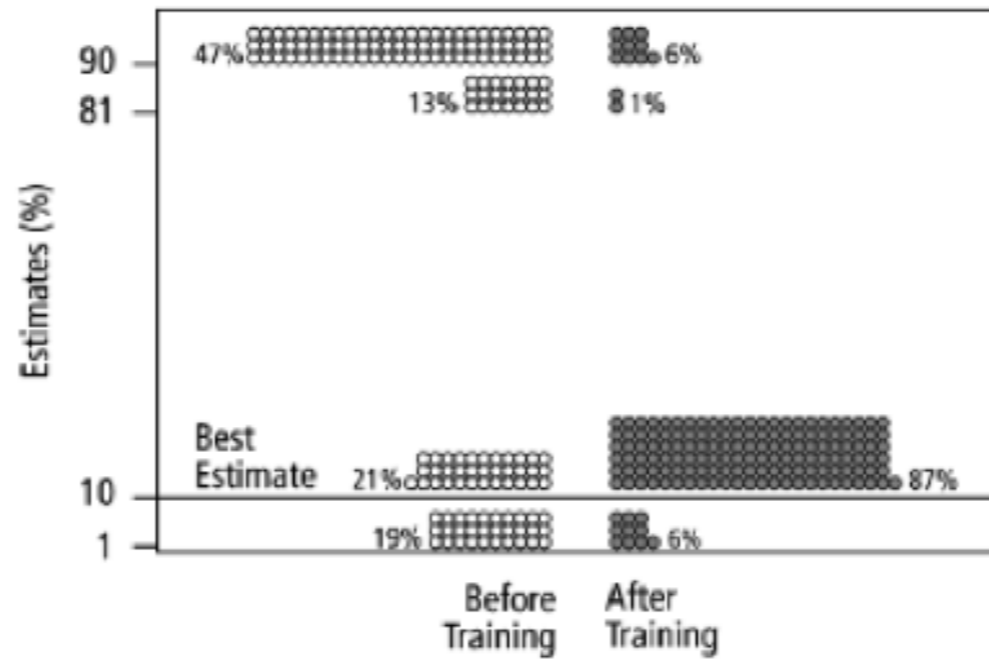


Fig. 2. Estimates by 160 gynecologists of the probability that a woman has breast cancer given a positive mammogram, before and after receiving training in how to translate conditional probabilities into natural frequencies.

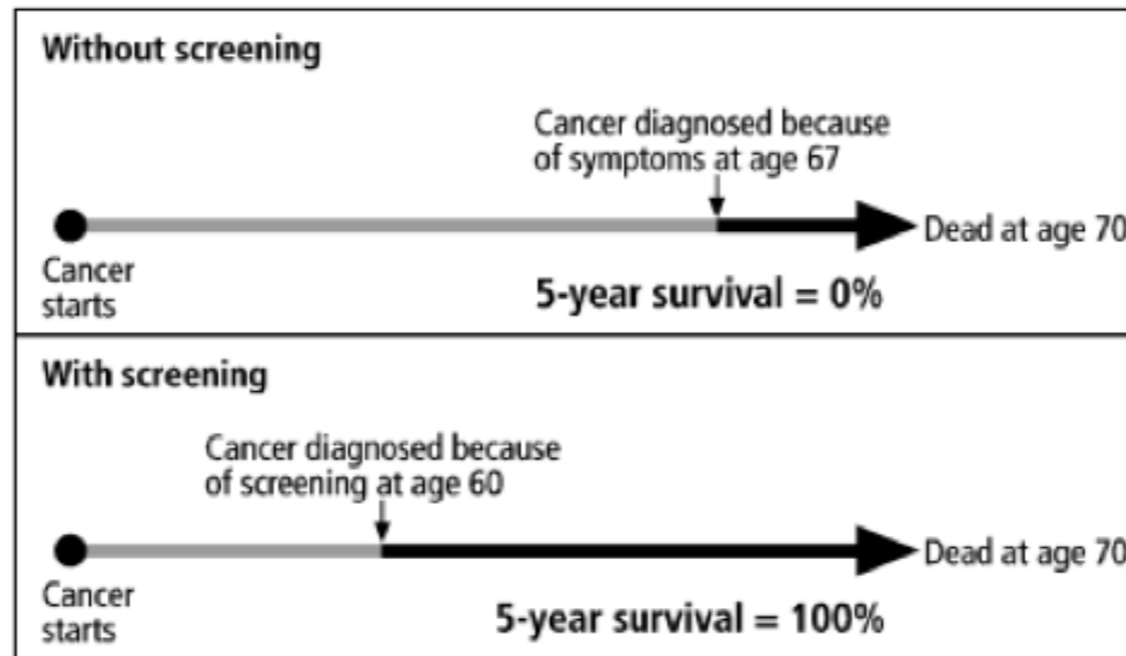


Fig. 4. Lead-time bias. Even if the time of death is not changed by screening—and thus no life is saved or prolonged—advancing the time of diagnosis in this way can result in increased 5-year survival rates, causing such statistics to be misleading.

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The screenshot shows a web page titled "AP Statistics Curriculum 2007 Bayesian Prelim". The page content includes:

- Navigation:** View Page, Community portal, Current events, Recent changes, Random page, Help, Donations, Keyword Search, Create Account.
- Search:** A search box with "Go" and "Search" buttons.
- Toolbox:** What links here, Related changes, Special pages, Printable version, Permanent link.
- Contents (144):**
 - 1 Probability and Statistics Ebook - Bayes Theorem
 - 1.1 Introduction
 - 1.2 Example
 - 1.3 Bayesian Statistics
 - 2 See also
 - 3 References
- Probability and Statistics Ebook - Bayes Theorem**
- Introduction**

Bayes Theorem, or "Bayes Rule" can be stated succinctly by the equality

$$P(A|B) = \frac{P(B|A) \cdot P(A)}{P(B)}$$

In words, "the probability of event A occurring given that event B occurred is equal to the probability of event B occurring given that event A occurred times the probability of event A occurring divided by the probability that event B occurs."

Bayes Theorem can also be written in terms of densities or likelihood functions over continuous random variables. Let's call $f(\cdot)$ the density (or in some cases, the likelihood) defined by the random process x . If X and Y are random variables, we can say

$$f(Y|X) = \frac{f(X|Y) \cdot f(Y)}{f(X)}$$
- Example**

Suppose a laboratory blood test is used as evidence for a disease. Assume $P(\text{positive Test}|\text{Disease}) = 0.95$, $P(\text{positive Test}|\text{no Disease}) = 0.01$ and $P(\text{Disease}) = 0.005$. Find $P(\text{Disease}|\text{positive Test})$?

Denote $D = \{\text{the test person has the disease}\}$, $D^c = \{\text{the test person does not have the disease}\}$ and $T = \{\text{the test result is positive}\}$. Then

$$P(D|T) = \frac{P(T|D)P(D)}{P(T)} = \frac{P(T|D)P(D)}{0.95 \times 0.005 + 0.01 \times 0.995} = \frac{0.95 \times 0.005}{0.95 \times 0.005 + 0.01 \times 0.995} = 0.3231293.$$
- Bayesian Statistics**

What is commonly called **Bayesian Statistics** is a very special application of Bayes Theorem.

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How good is the test in detecting the disease?
P(positive test|sick): 0.062

How good is the test in detecting the absence of the disease?
P(negative test|healthy): 0.142


How likely is the disease?
P(disease): 0.001

Number of people for reference
N: 2329

Probability of being sick after having tested positive for a disease: $P(\text{sick}|\text{positive test})$

	positive test	negative test	Total
sick	0	2	2
healthy	1997	330	2327
Total	1997	332	2329

$P(\text{sick}|\text{positive test}): 0/1997 = 0.$

Wolfram  Demonstrations Project demonstrations.wolfram.com

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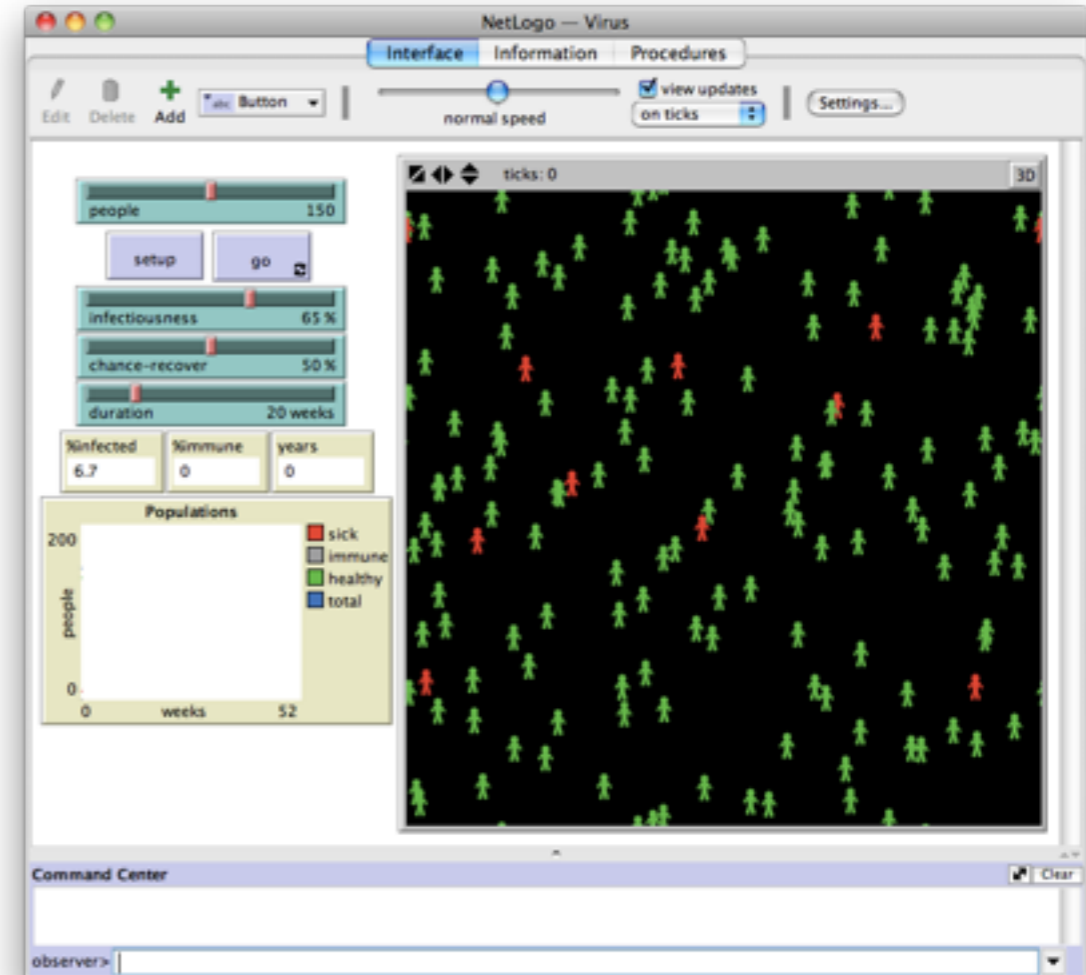
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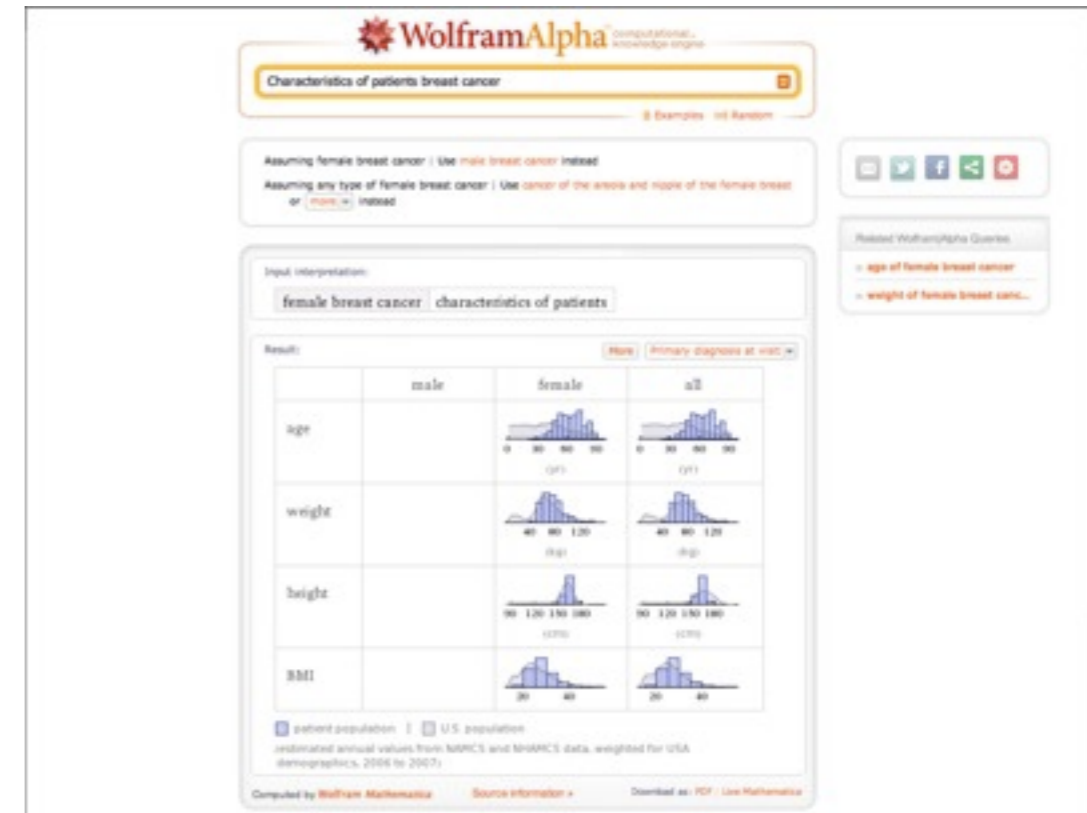
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Engaging the World

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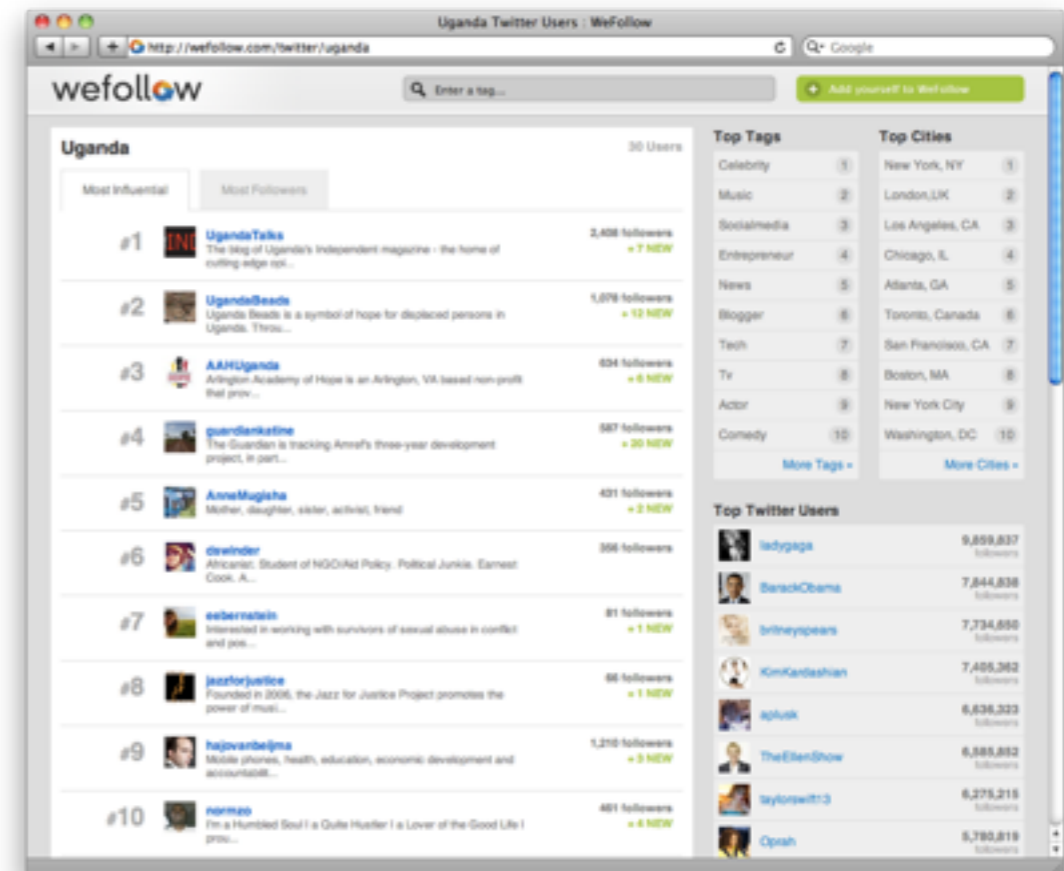
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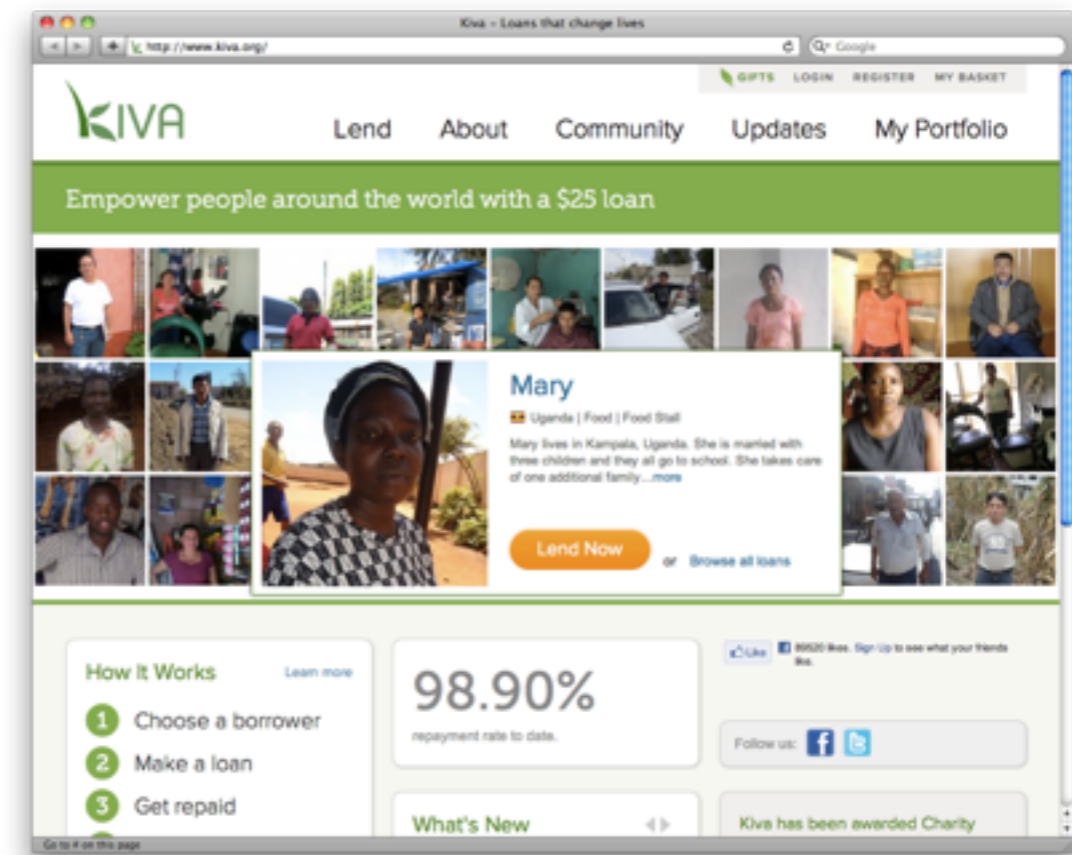
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Metaphors 2:

Mobility, Sketchbooks, and Curiosity

Three Key Characteristics of Mobile Devices

- Ubiquity
- Intimacy
- Embeddedness



DESIGNER
BRACES





Small text on the left wall, partially obscured and illegible.

Small text on the bottom left wall, partially obscured and illegible.

Two Key Metaphors

- The Lively Sketchbook
- The Curiosity Amplifier





My name is
Ernest Miller Hemingway

Yours from July 21, 1899

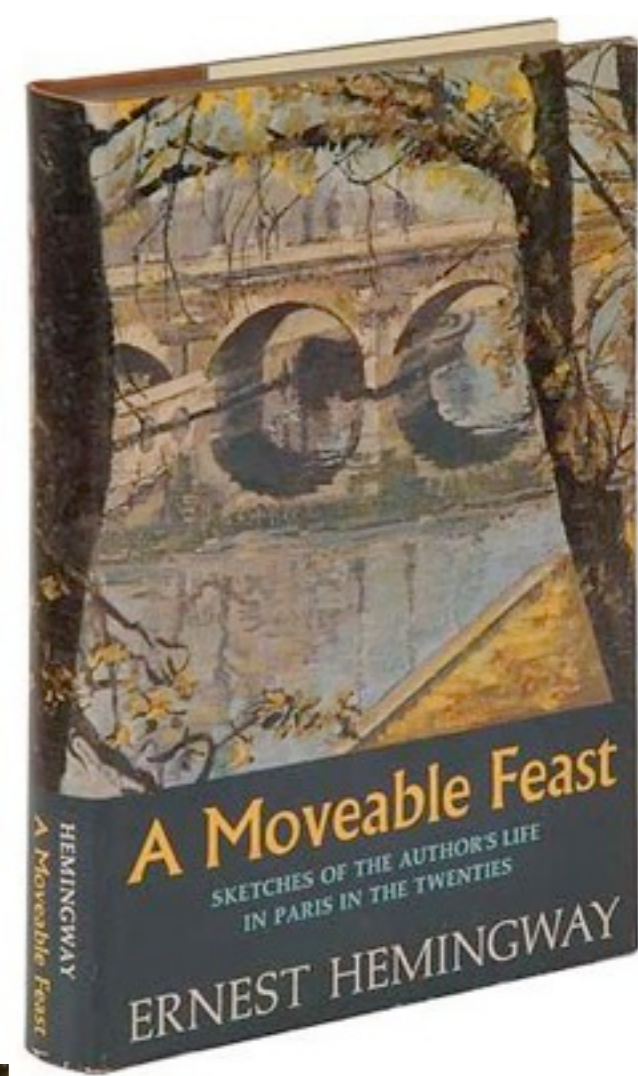
My favorite authors
are Kipling, O. Henry
and Stewart Edmund
White.

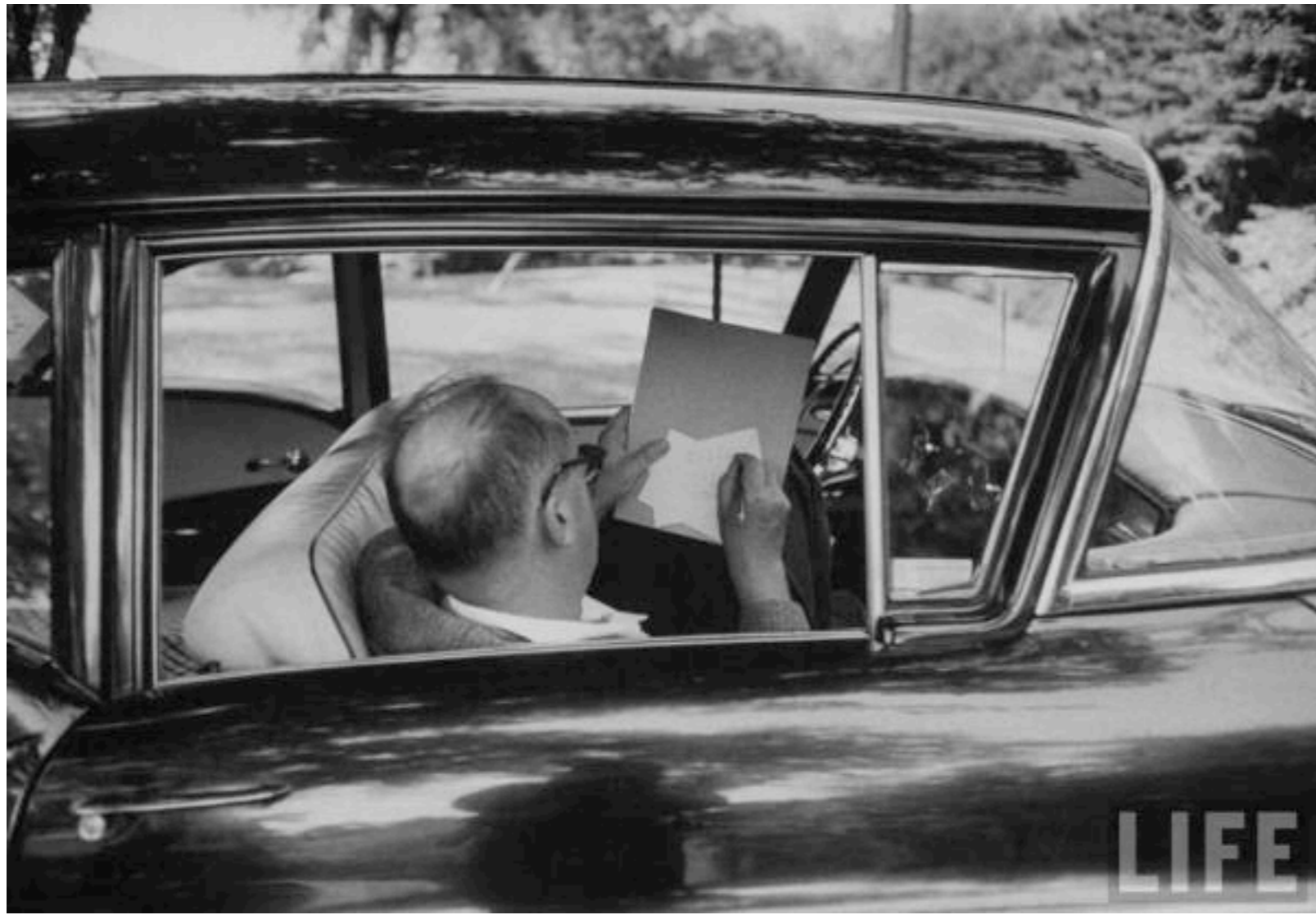
My favorite flowers
is Lady slipper and
Tiger Lily.

My favorite sports
are trout fishing,
Hockey, shooting, football
and boxing.

My favorite study is
English, French and
Chemistry.

and milk.





- General Search



- Media Search and Identification



- Lifestyle Search



- Social Network Participation



- News



- Books



- Augmented Reality



iPad 6:38 AM 83%

Contents

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Tap to sign in to Facebook...

Twitter

Inside Flipboard

Words That Matter

Tech

Send A Jobvite

Facebook On LinkedIn On Tw

Photos

Nature

Flickr

Google Reader

Amount of traffic (left scale) for Google Reader for 2008

Category	Amount (left scale)
\$0	0.0
1-4k	0.1
5-10k	0.2
10-15k	0.3
15-20k	0.4
20-25k	0.5
25-30k	0.6
30-40k	0.8
40-50k	1.0
50-75k	1.5
75-100k	2.0
100-200k	3.0
200-500k	4.0
500-1M	5.0
1M-1.5M	6.0
1.5-2M	7.0
2-5M	8.0
5-10M	9.0
10+M	10.0

Wired

Page 1 of 2

iPad 6:41 AM 83%

Google Reader

Contents

"Critical Pessimism" Revisted: An Open Letter to Adam Fish

henryjenkins.org • A few weeks ago, Adam Fish called me out through his blog, Savage Minds, for what he saw as a harsh and unfair representation of the Media Reform movement in the final paragraphs of my book, *Convergence Culture: Where Old and New Media Collide*. He did so for the most part by simply reprinting my own words to frame a story he wrote about the recent Media Reform conference.

I was a bit surprised to find myself singled out as an enemy of the Media Reform movement. If I am the biggest obstacle to your success, you are much closer to victory than I had previously imagined. :-)

The experience was uncomfortable for me, but in a very constructive way, in that it ...

Don't try this at home

languagelog.ldc.upenn.edu • Following up on my posts about locative denominal verbs, yesterday's SMBC: Without professional guidance, that kind of exploration could go off in all kinds of directions: And instead of emerging with some sensible conclusion ("...the bieventive analysis can form a basis for a unified theory of causativization across languages while the theta-role analysis cannot..."), you could wind up who knows where...

New app visualises your vehicle and driving activity

visualisingdata.com • Since 1996 cars have been built with on-board computers to capture and store a wide range of diagnostic and ...

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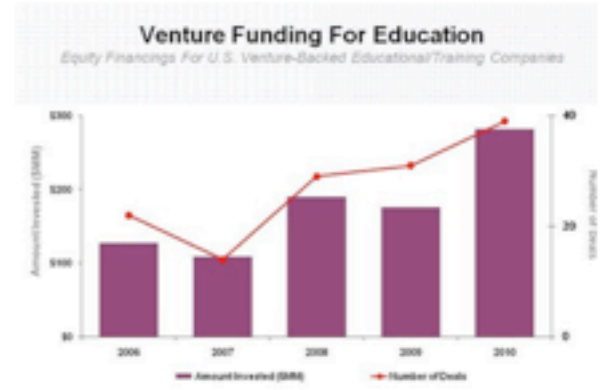


TOP STORIES

National Education Crisis Could Spell Venture Capital Opportunity

WSJ - 9 hours ago

A decade ago, the dot-com boom fueled a wave of venture investment in Internet-enabled education companies. Since then, the evolution of social media coupled with improvements in connectivity and mobility would seem to presage a new class



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ehow.com - 2 hours ago



There are many different third-party Twitter tools online that can help you become more productive in the way you use the micro-blogging tool. For example, there might come

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Mail Online - 5 hours ago



Teachers want to ditch classic novels in favour of shorter books because they reckon boys do not have the stamina to read more than 100

PhD Detachment

thethesiswhisperer.wordpress.com - 9 hours ago



I co-supervise a student, who surprised us at lunchtime last week by saying:

"I just don't care anymore. What ever"

6 Reasons Why Tablets Are Ready for the Classroom

mashable.com - 12 hours ago



Vineet Madan is Vice President of McGraw-Hill Higher Education eLabs, which works with

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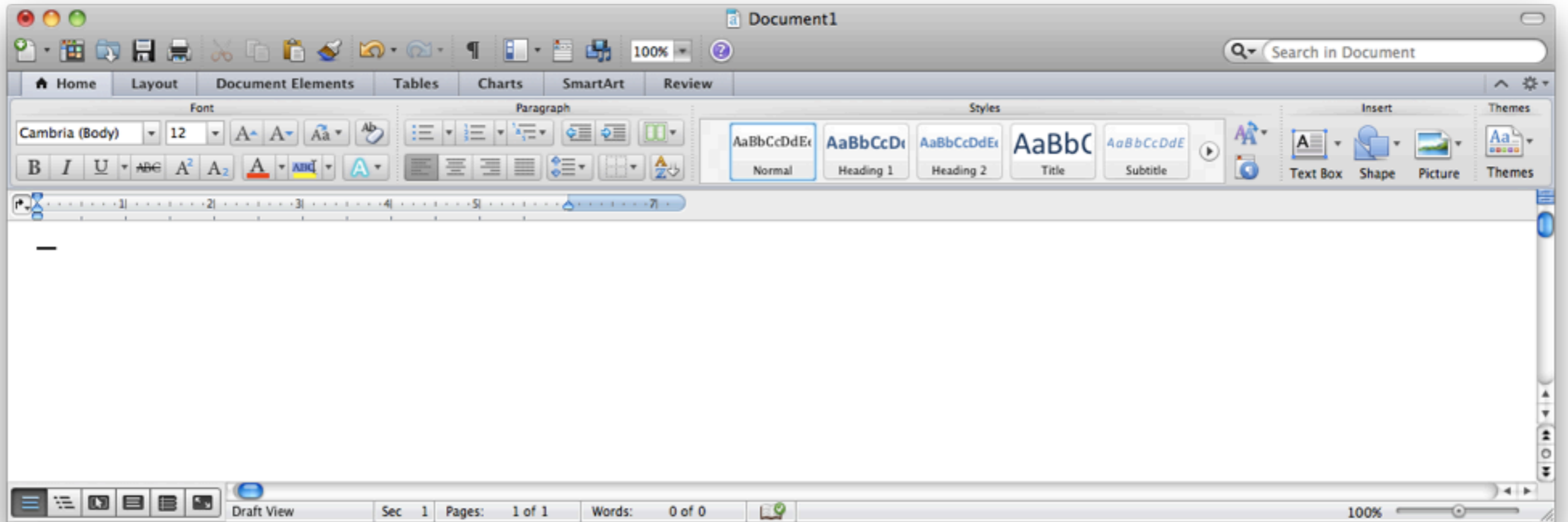
WEB DESIGN & USER EXPERIENCE

EDUCATION

CUSTOMIZE

Feedback

Flows





=====

ABOUT WRITER > CONTENT

=====

- 1. WHY WE BUILT IT
- 2. HOW IT WORKS
- 3. WHY IPAD?
- 4. NOT HAPPY?
- 5. CREDITS

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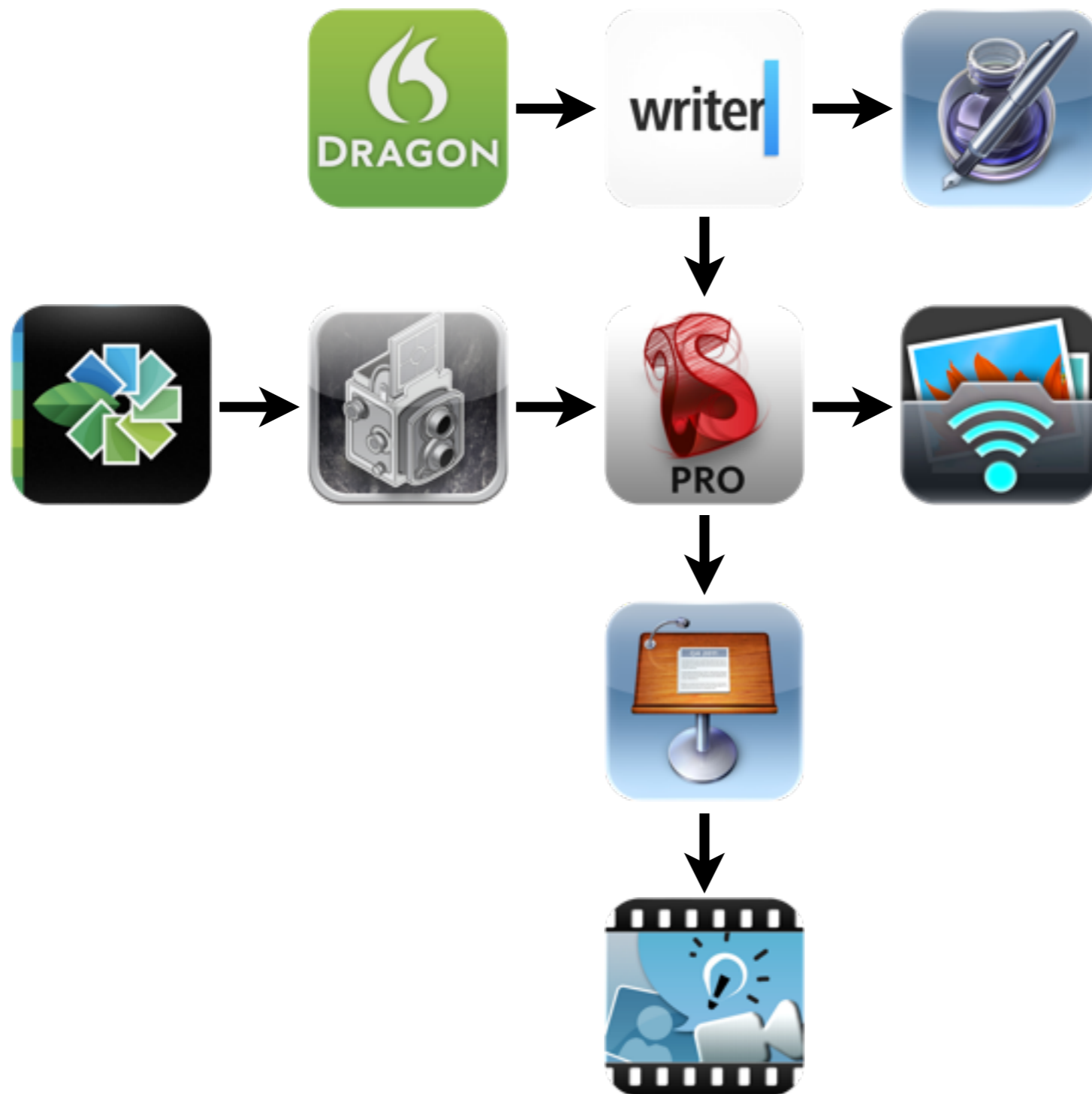
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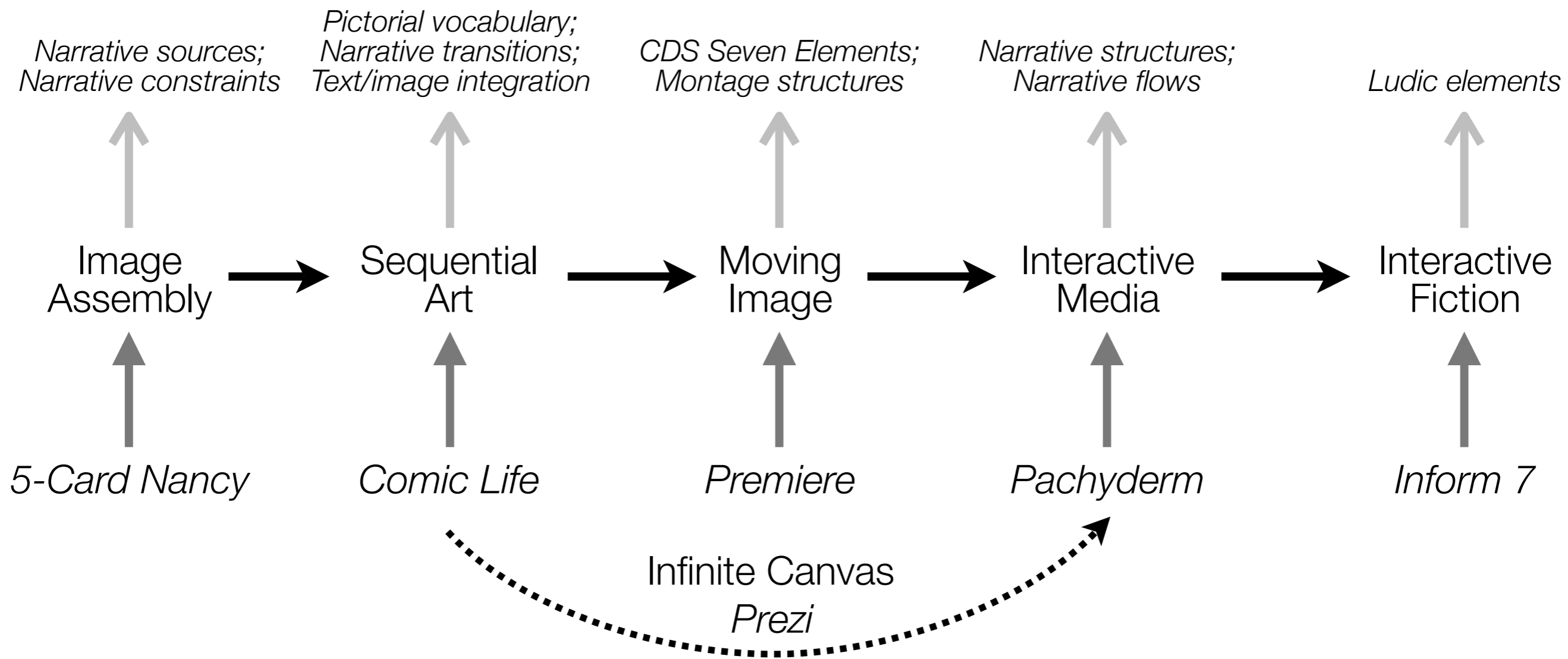
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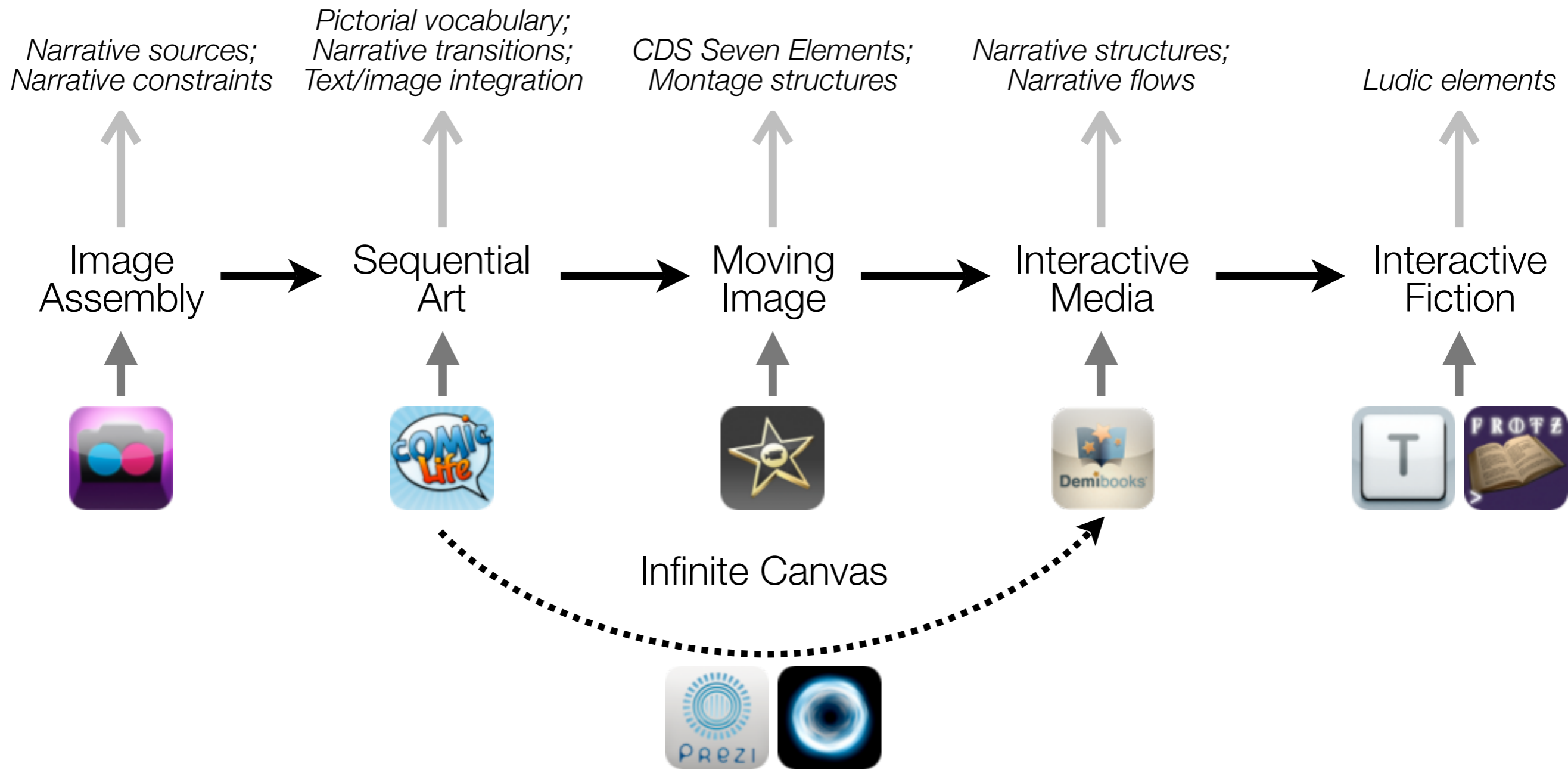
The key to good writing is not that magical glass of Bordeaux, the right kind of tobacco or that groovy background music. The key is focus.

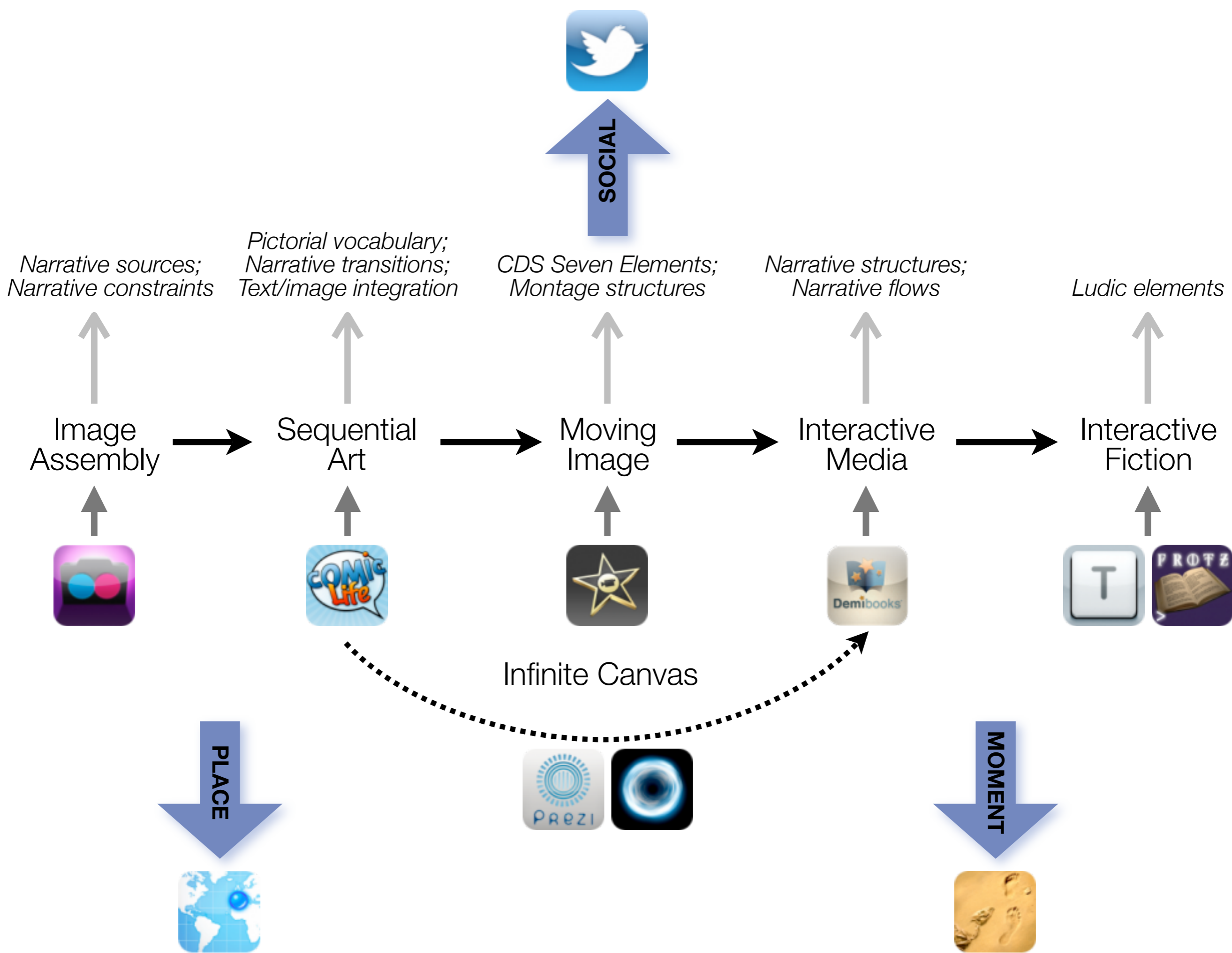


Building Flows



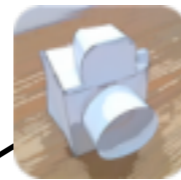




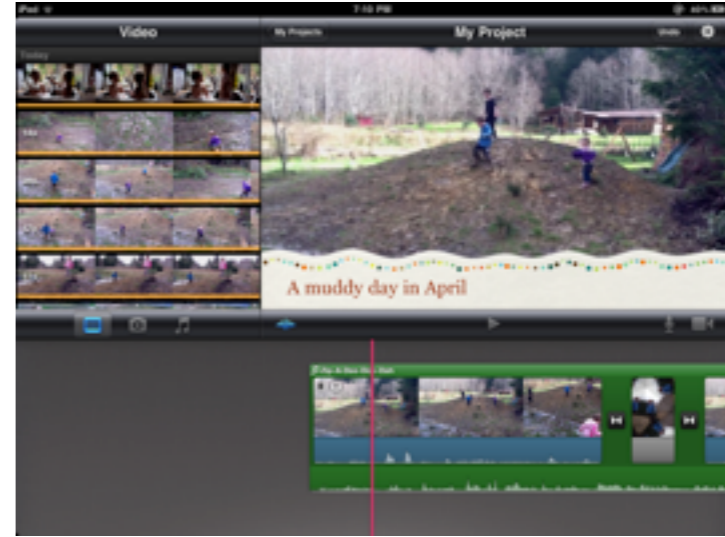


A SAMR Ladder for AAC

Modification



Substitution

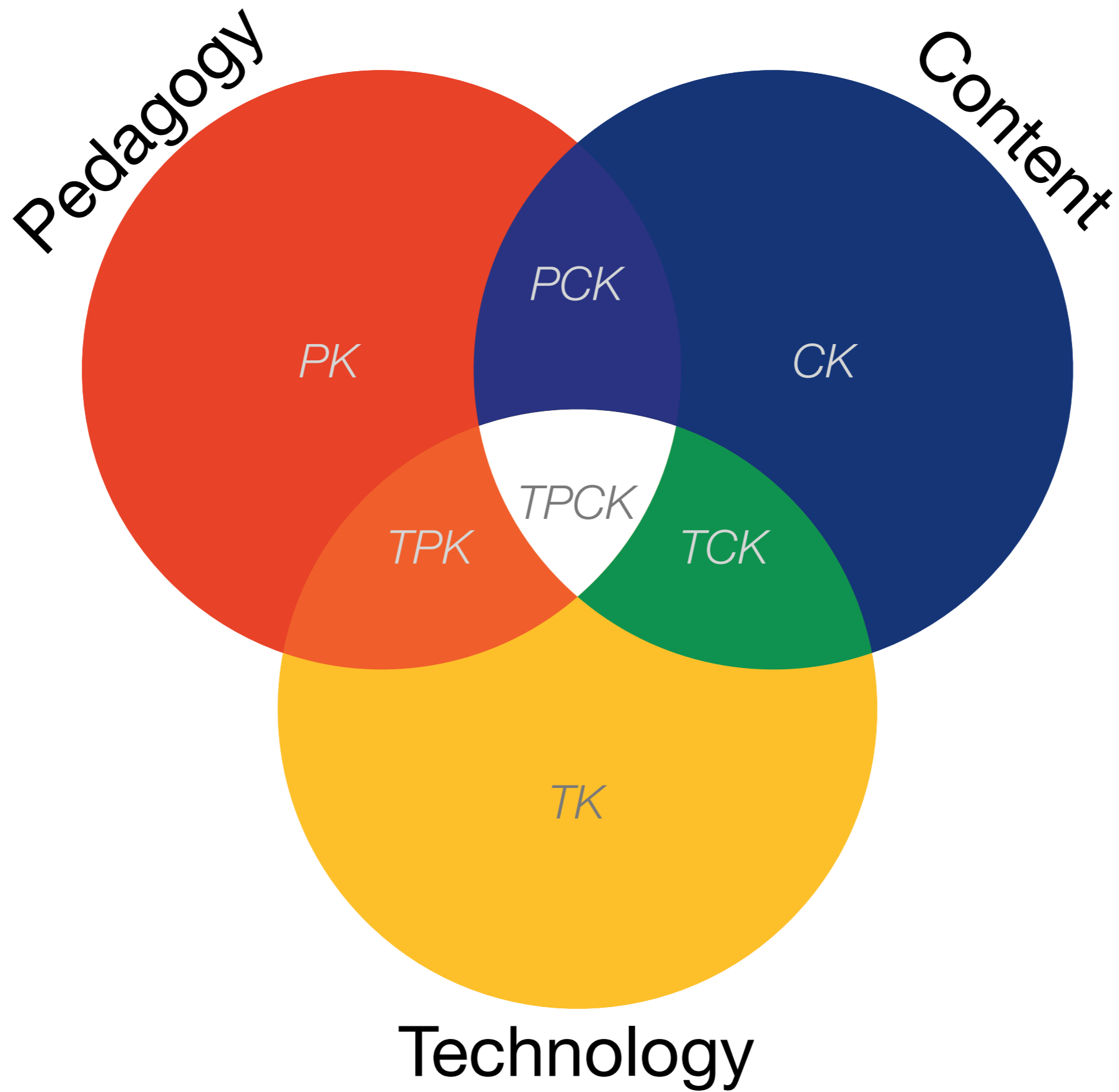


Redefinition

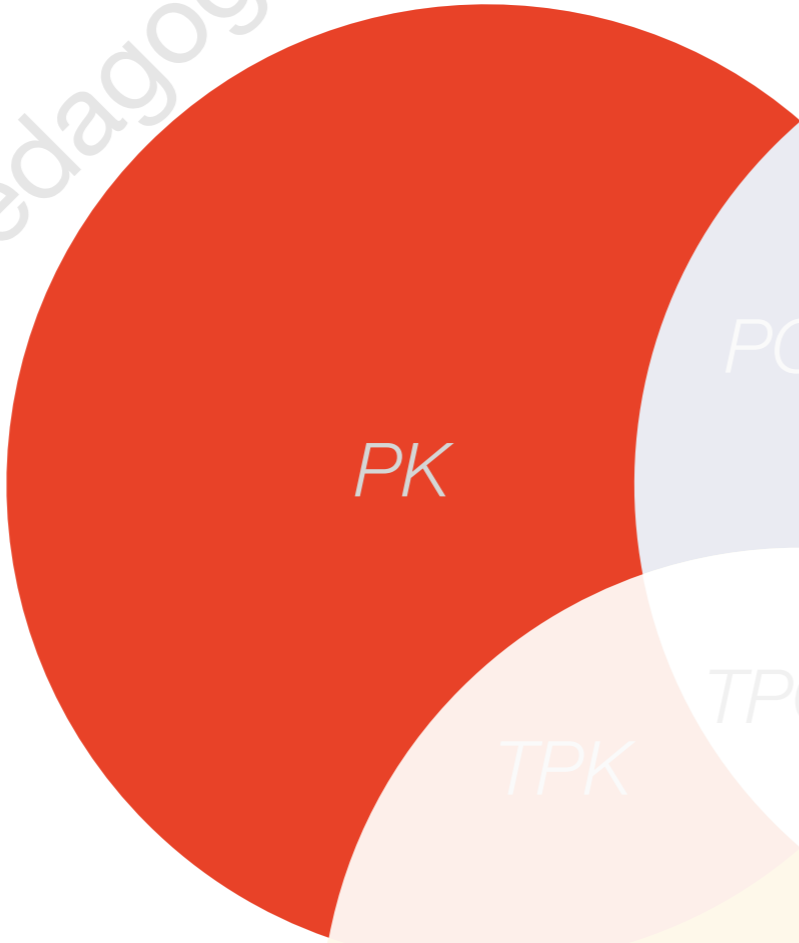


Augmentation

Models 2: The TPCK Model



Pedagogy



PK

TPK

TCK

Techn

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Psychology Neuroscience

NEW SCIENCE OF LEARNING

An article in Science magazine (July 17, 2009), entitled "Foundations for a New Science of Learning," was co-written by Andrew Meltzoff and Patricia Kuhl, LIFE Center Leads, with Javier Movellan and Terrence Sejnowski of the Temporal Dynamics of Learning Center. [Read more.](#)

LIFE Center
LIFE is a multi-institution NSF Science of Learning Center hosted at the University of Washington in partnership with Stanford University and SRI International. The LIFE Center seeks to develop and test principles about the social foundations of human learning in informal and formal environments with the goal of enhancing human learning from infancy to adulthood. [Learn more.](#)

News

Na'ilah Suad Nasir featured in The Voice video from the Teachers College Record. [Read more](#)

Jeremy Bailenson's research and new book featured in a New York Times article. [Read more](#)

NSF
The National Science Foundation Science of Learning Centers Program (SLC) supports research that harnesses and integrates knowledge across multiple

HASTAC Humanities, Arts, Science, and Technology Advanced Collaboratory

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INSPIRE > CREATE > BUILD > INVENT

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Amanda May 05 0 comments

Doctorow on the values of our software
The path IS the destination. How you get there is every bit as important ...
Ruby May 04 0 comments


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www.dmlcompetition.net
National LTD Edu

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Introduction to Egyptian Art
Read about the curatorial department and its permanent collection.

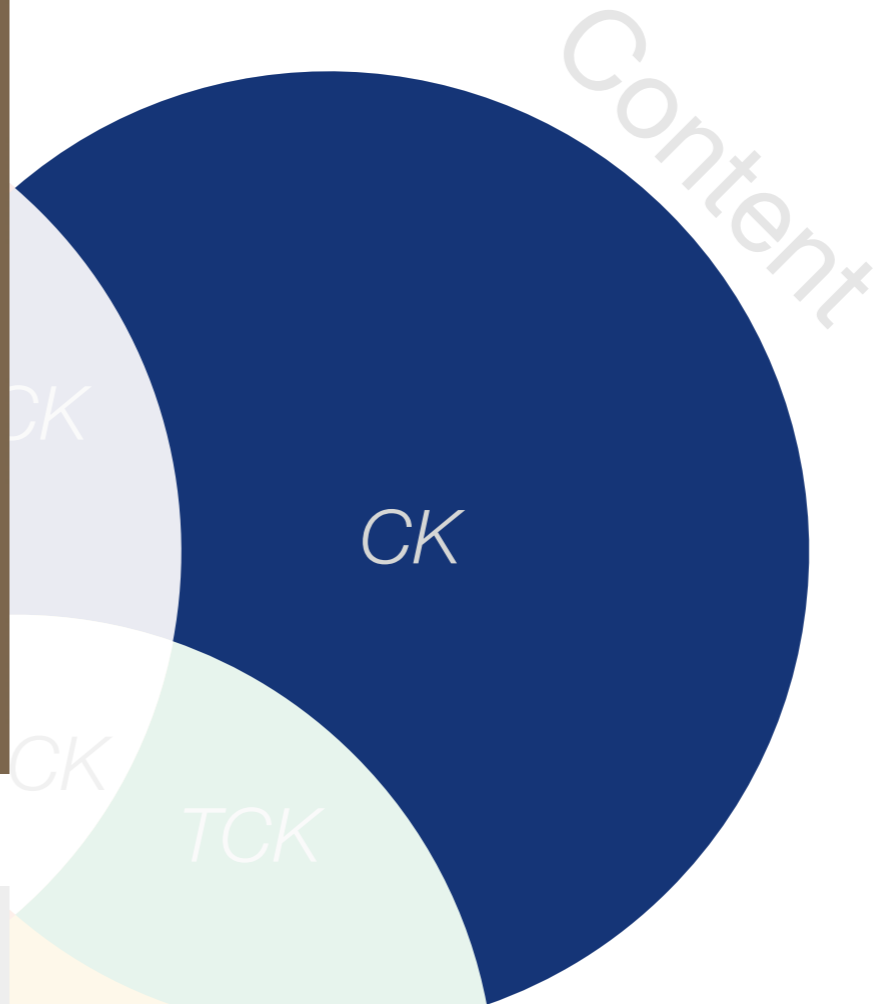
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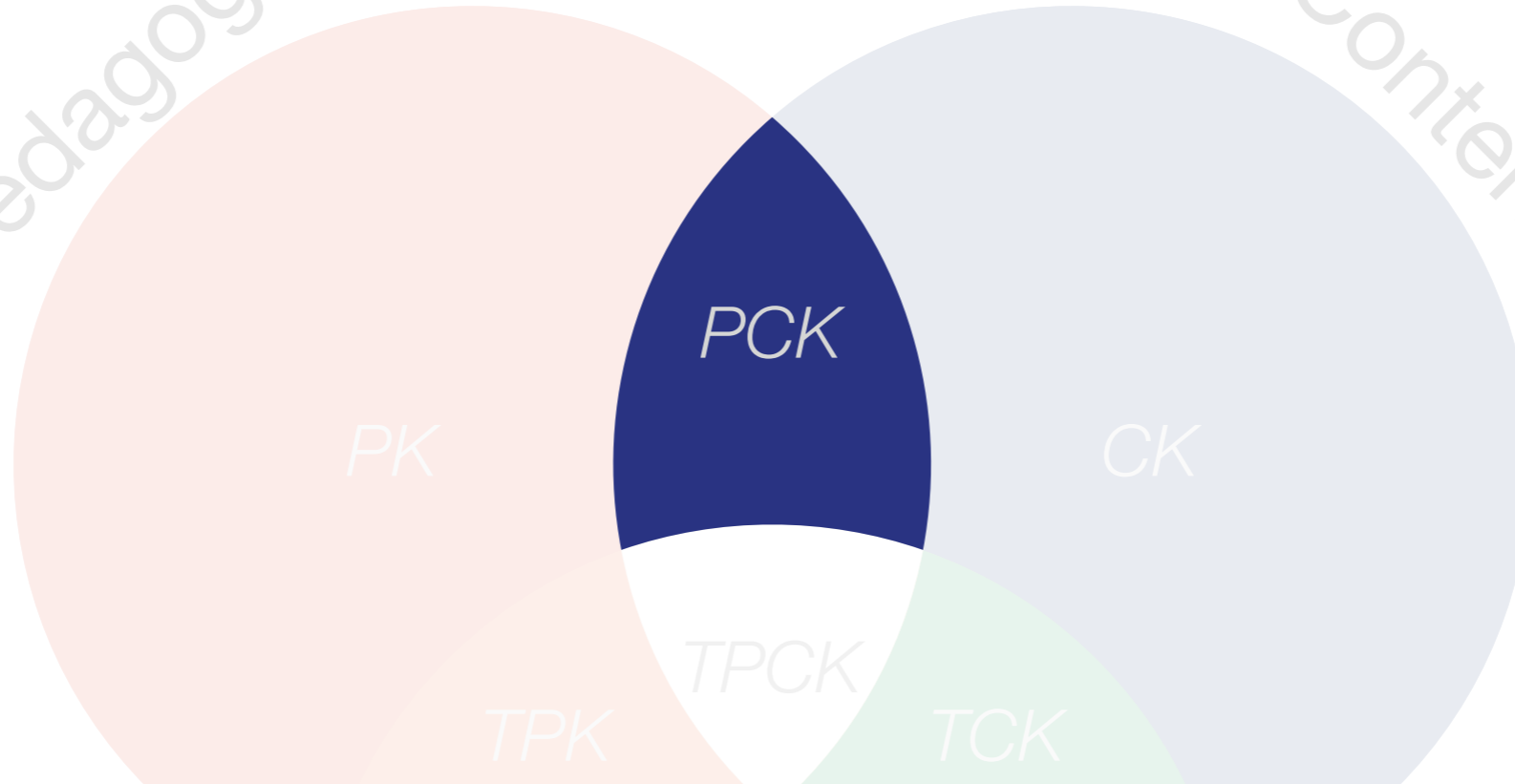
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Pedagogy

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Making Sense of Evidence

This section helps students and teachers make effective use of primary sources. "Making Sense of Documents" provide strategies for analyzing online primary materials, with interactive exercises and a guide to traditional and online sources. "Scholars in Action" segments show how scholars puzzle out the meaning of different kinds of primary sources, allowing you to try to make sense of a document yourself then providing audio clips in which leading scholars interpret the document and discuss strategies for overall analysis.

Making Sense of Documents

[Making Sense of Oral History](#)

Written by Linda Shopes, this guide presents an overview of oral history and ways historians use it, tips on what questions to ask when reading or... [\[more\]](#)

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This guide offers an overview of the history of maps and how historians use them, a breakdown of the elements of a map, tips on what questions to ask... [\[more\]](#)

[Making Sense of Numbers](#)

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Scholars in Action

[Analyzing an 1804 Inventory](#)

In this interview Barbara Clark Smith discusses strategies for analyzing household possessions, specifically a 1804 inventory of the possessions of... [\[more\]](#)

[Analyzing Political Cartoons](#)

In this interview, Michael O'Malley discusses strategies for interpreting political cartoons, specifically an 1876 Thomas Nast cartoon. The cartoon... [\[more\]](#)

[Analyzing Blues Songs](#)

In this interview, Lawrence Levine discusses strategies for listening to and interpreting music, specifically two blues songs, "Two White Horses... [\[more\]](#)

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In this interview, Frank Goodyear discusses strategies for

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EJ913993 - "Old Stuff" for New Teaching Methods: Outreach to History Faculty Teaching with Primary Sources

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ERIC #: EJ913993

Title: "Old Stuff" for New Teaching Methods: Outreach to History Faculty Teaching with Primary Sources

Authors: Malkmus, Doris

Descriptors: Research Methodology; Primary Sources; Educational Change; Research Skills; Historians; History Instruction; Teaching Methods; Courses; Educational Innovation; Reference Services; Undergraduate Study; Followup Studies; Interviews; Surveys; Electronic Libraries

Source: portal: Libraries and the Academy, v10 n4 p413-435 Oct 2010

Peer-Reviewed: Yes

Publisher: Johns Hopkins University Press, 2715 North Charles Street, Baltimore, MD 21218. Tel: 800-548-1784; Tel: 410-516-6987; Fax: 410-516-6968; e-mail: jorder@jhupress.jhu.edu; Web site: <http://www.press.jhu.edu/journals/subscribe.html>

Publication Date: 2010-10-00

Pages: 23

Pub Types: Journal Articles; Reports - Research

Abstract: New approaches to undergraduate history education rely on primary sources. This study, based on a 2008-2009 online survey of 627 academic historians and 25 follow-up interviews, captures a snapshot of the current use of online, published, and archival primary sources used in new teaching methods. It identifies three distinct ways faculty utilize primary sources—analyzing documents in freshman courses, building

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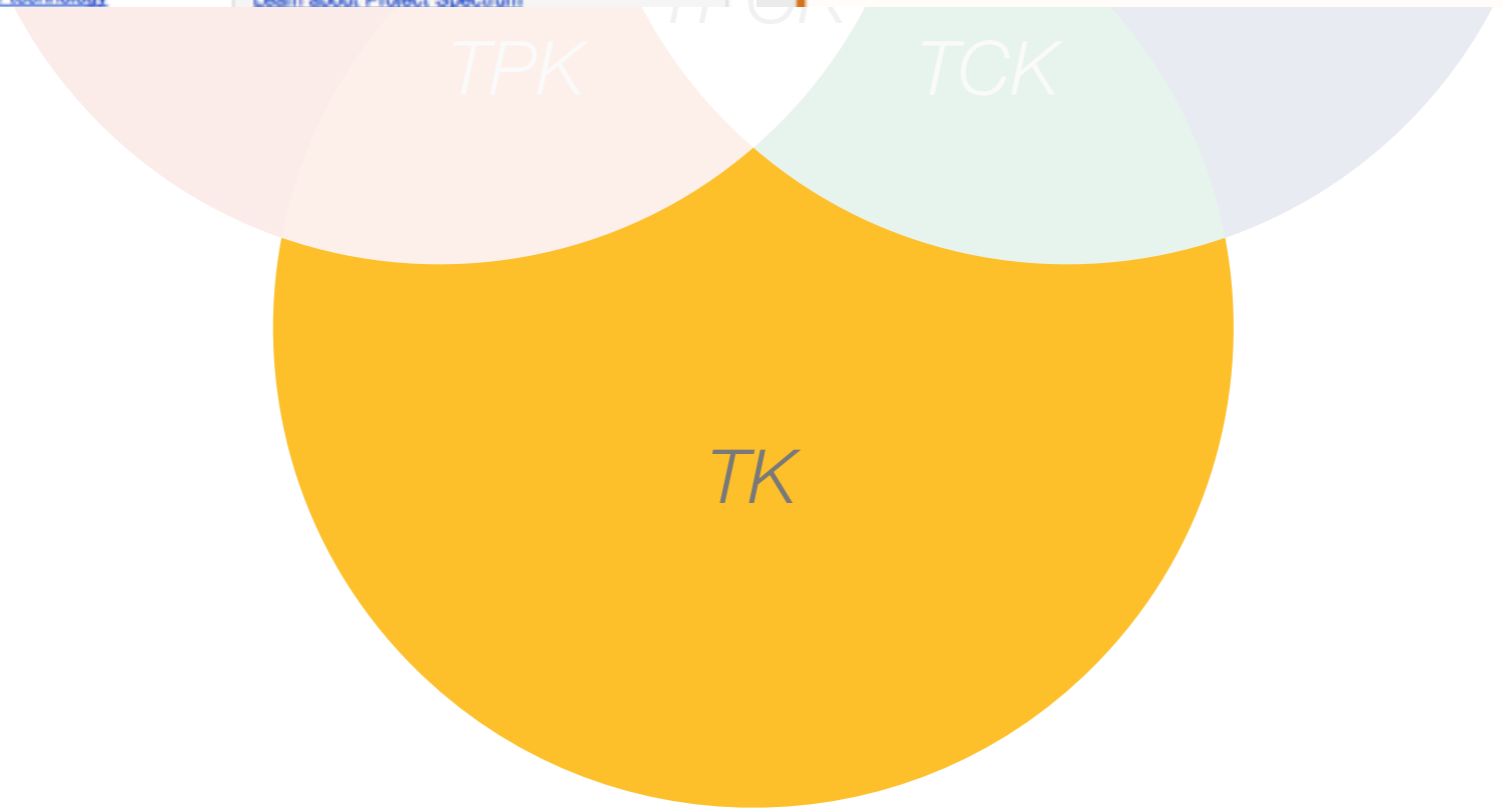
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The screenshot shows the YouTube channel page for 'Algoryx Simulation channel'. The main video player displays a 3D simulation of a mechanical system with a blue background. Below the player, the video title is 'Algodoo - Science education for a new generation' with 2,528 views. To the right, there is a list of uploads including 'Algodoo - Science education for a new generation', 'Algodoo tribute to Pink Floyd Dark side', 'Some cable magic', 'Algodoo - Barrier Breaker in Science', 'SMART Board 800 series interactive SMARTCas...', and 'Algodoo - Physics Educational Software'.



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The screenshot shows the homepage of the Horizon Report: K12 Edition Wiki. At the top, there is a navigation bar with links for 'NMC', 'Horizon Project', 'Horizon Navigator', and 'Horizon.K12 Wiki'. Below this is a banner image with the text 'nmc horizon.k12 The Horizon Project: K-12 Edition'. The main content area features a 'Wiki Tools' sidebar with options like 'Recent Changes', 'Search', and 'Select Language'. The main text includes a welcome message and a description of the project's purpose. On the right, there is a 'Protected' status indicator and a 'Horizon Reports' section with thumbnails for the 2011 and 2010 reports.

The screenshot displays the homepage of 'THE CHRONICLE of Higher Education'. The date is Thursday, May 5, 2011. The navigation menu includes 'HOME', 'NEWS', 'OPINION & IDEAS', 'FACTS & FIGURES', 'TOPICS', 'JOBS', 'ADVICE', 'FORUMS', and 'EVENTS'. A prominent advertisement for Sprint is visible, along with a 'ProfHacker' section. The ProfHacker article, dated May 4, 2011, is titled 'Using Google Docs Forms to Run a Peer-Review Writing Workshop' by Ryan Cordell. The article discusses the use of Google Docs Forms in a classroom setting. To the right of the article is an advertisement for SAS Analytics, featuring the text 'Boost retention, graduation rates and alumni development with analytics.' and the SAS logo.

A Companion to Digital Humanities

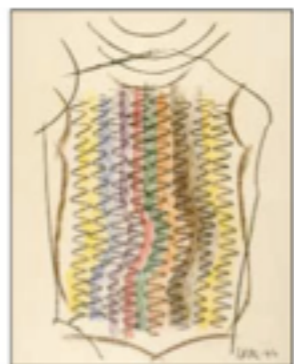
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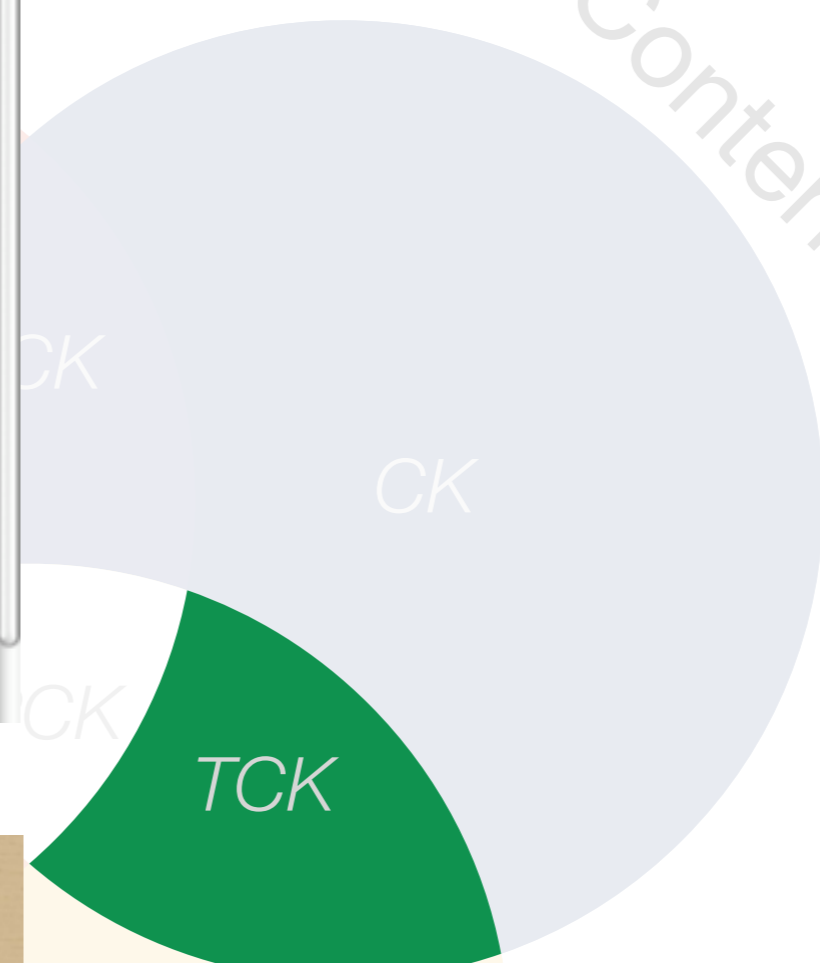
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Digital Humanities

Share / Save

Digital humanities projects harness the power of technologies to conduct research and to facilitate the sharing of information. Current projects include the digitization of print and sound archives, the creation of 3-D models of historical structures, and the development of virtual research forums so scholars from around the world can interact online.

Beyond Search: Literary Studies and the Digital Library

Beyond Search is a project-driven, collaborative enterprise. It explores macro-scale literary questions by leveraging technology and large digital repositories.

Recent projects have included a study of narrative and descriptive language, which utilized machine learning to classify 1.7 million sentences from 1200 19th century novels as well as a parallel project that employed text-analysis to detect moments of authorial interjection in the novel.

[Go to Beyond Search](#)

Arcade

In the academic sense, a salon is a gathering of intellectuals who engage in thought provoking discussions. Taking a cue from the social media trend, a group of humanities scholars have created a new and improved virtual incarnation of the salon.

The new interactive website, entitled "Arcade," is the first widely accessible platform for intellectual networking in the humanities. Arcade is a place for readers and writers interested in literature, the humanities, and the world. We aim to publish a broad range of the most exciting research in the humanities, from the accessible to the esoteric, across languages, historical periods, and generations.

[Go to Arcade](#)

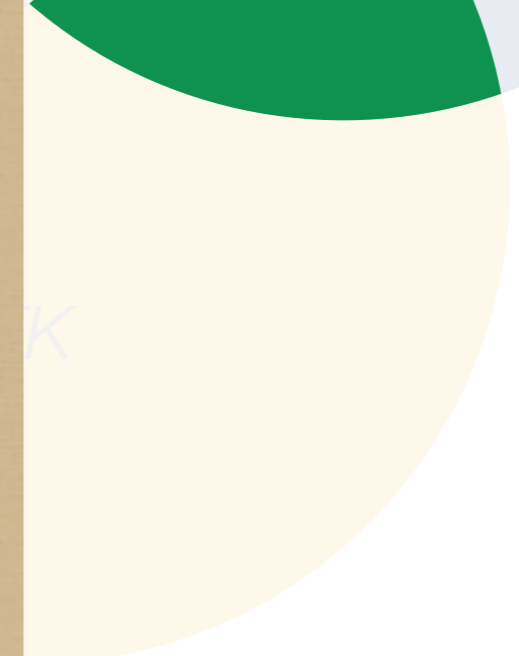
Mapping the Republic of Letters

With the help of advanced visualization techniques, this project is literally "mapping" the Republic of Letters, by plotting the geographic data for the senders and receivers of correspondences. These maps will allow researchers to perceive the larger patterns of intellectual exchange in the early-modern world and raise new questions about the importance of places, nations, and cities, in the circulation of knowledge.

[Go to Mapping the Republic of Letters](#)

Humanities at Stanford

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- WHEN can I contribute? New, in the Humanist's Forum.



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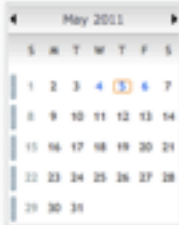
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- OCW Consortium announces

OCW in the News

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- **Tue 03 May 2011** / Live at the OpenCourseWare Consortium Conference
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Welcome back, Skate
Posted on May 5, 2011 by Antonio Varricchio

Over one month from my last post. Hmmm. It has been a hell of a month. I have been working day and night to put together a new Grant for the US Dept. of Education, which went out last Friday, April 29. At the same time I had to... [CONTINUE READING ->](#)

Posted in nonsense | [Leave a comment](#)

The ds106 99: #46 The Thing in 7 minutes
Posted on May 4, 2011 by Peverend

Recent Assignment
View the results of the recent El Mashup assignment [here](#).

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Additional Resources

Resources

Metaphors:

- Vannevar Bush, “As We May Think”. *The Atlantic Monthly*. (July 1945) Online at: <http://www.theatlantic.com/magazine/archive/1969/12/as-we-may-think/3881/>
- Douglas C. Engelbart, *A Research Center for Augmenting Human Intellect*. (December 1968 live demo) Archived online at: <http://sloan.stanford.edu/mousesite/1968Demo.html>
- Alan Kay, “A Personal Computer for Children of All Ages”. *Proceedings of the ACM National Conference*. Boston (August 1972) Online at: <http://www.mprove.de/diplom/gui/Kay72a.pdf>
- Seymour Papert, “On Making a Theorem for a Child”. *Proceedings of the ACM National Conference*. Boston (August 1972) Online at: <http://portal.acm.org/citation.cfm?id=569942>

SAMR and TPCK:

- Ruben R. Puentedura, *Transformation, Technology, and Education*. (2006) Online at: <http://hippasus.com/resources/tte/>
- Ruben R. Puentedura, *As We May Teach: Educational Technology, From Theory Into Practice*. (2009) Online at: <http://tinyurl.com/aswemayteach>
- *TPCK - Technological Pedagogical Content Knowledge*. (2008-2010) Online at: http://www.tpck.org/tpck/index.php?title=Main_Page
- AACTE (Eds.) *The Handbook of Technological Pedagogical Content Knowledge for Educators*. New York:Routledge, 2008.

Resources – Part II

Defining Mobile Devices/The Lively Sketchbook

- Ruben R. Puentedura, “Drawing On The Lively Sketchbook”. *Connect@NMC Talks*. (2010) Online at: <http://www.nmc.org/connect/2010/april/16>
- Ruben R. Puentedura, “The Lively Sketchbook”. (2010) Online at: http://www.hippasus.com/rrpweblog/archives/2010_01.html

The Curiosity Amplifier

- John Seely Brown. “A New Culture of Learning”. NMC Summer Conference, Closing Keynote. (2010) Online at: <http://www.nmc.org/2010-summer-conference/jsb-keynote-video>

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