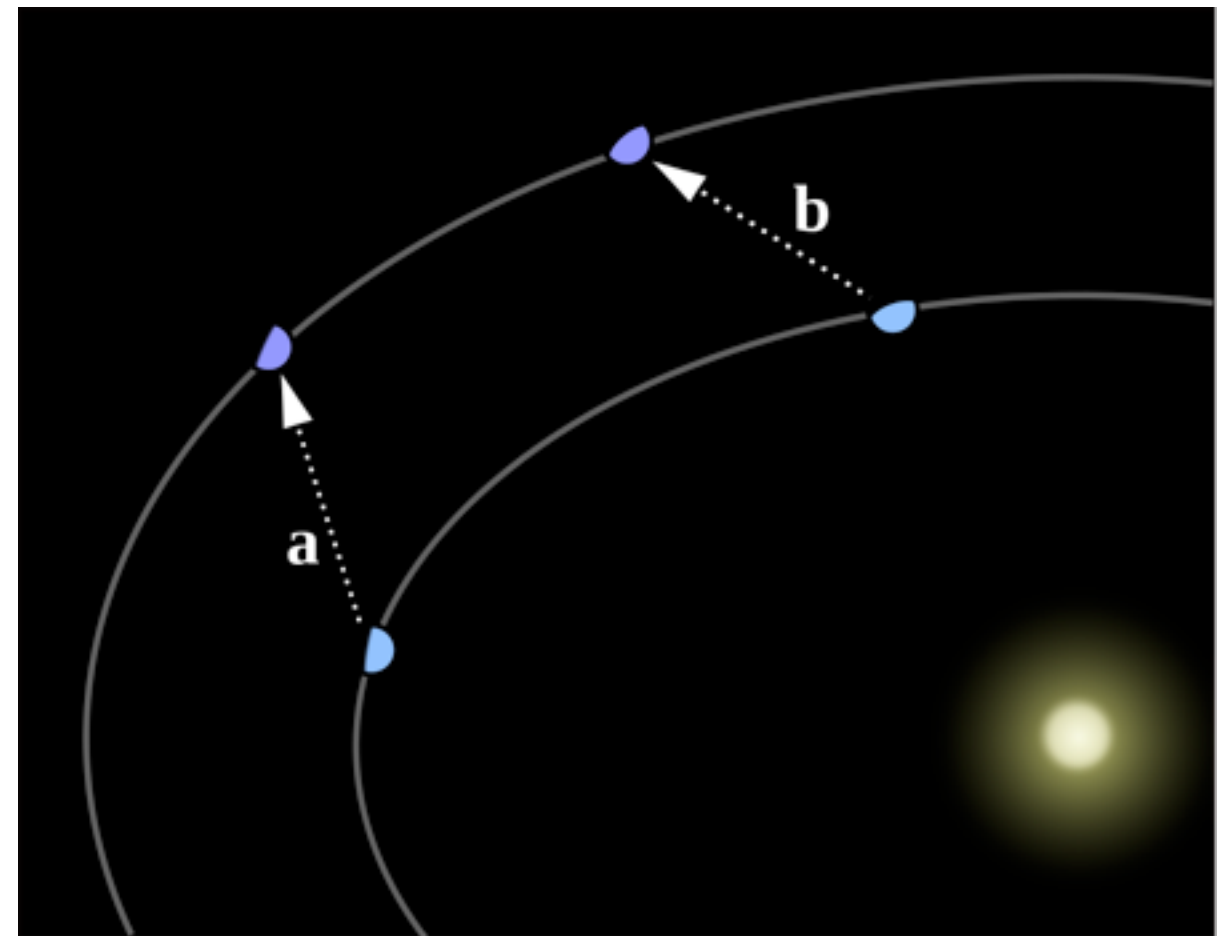
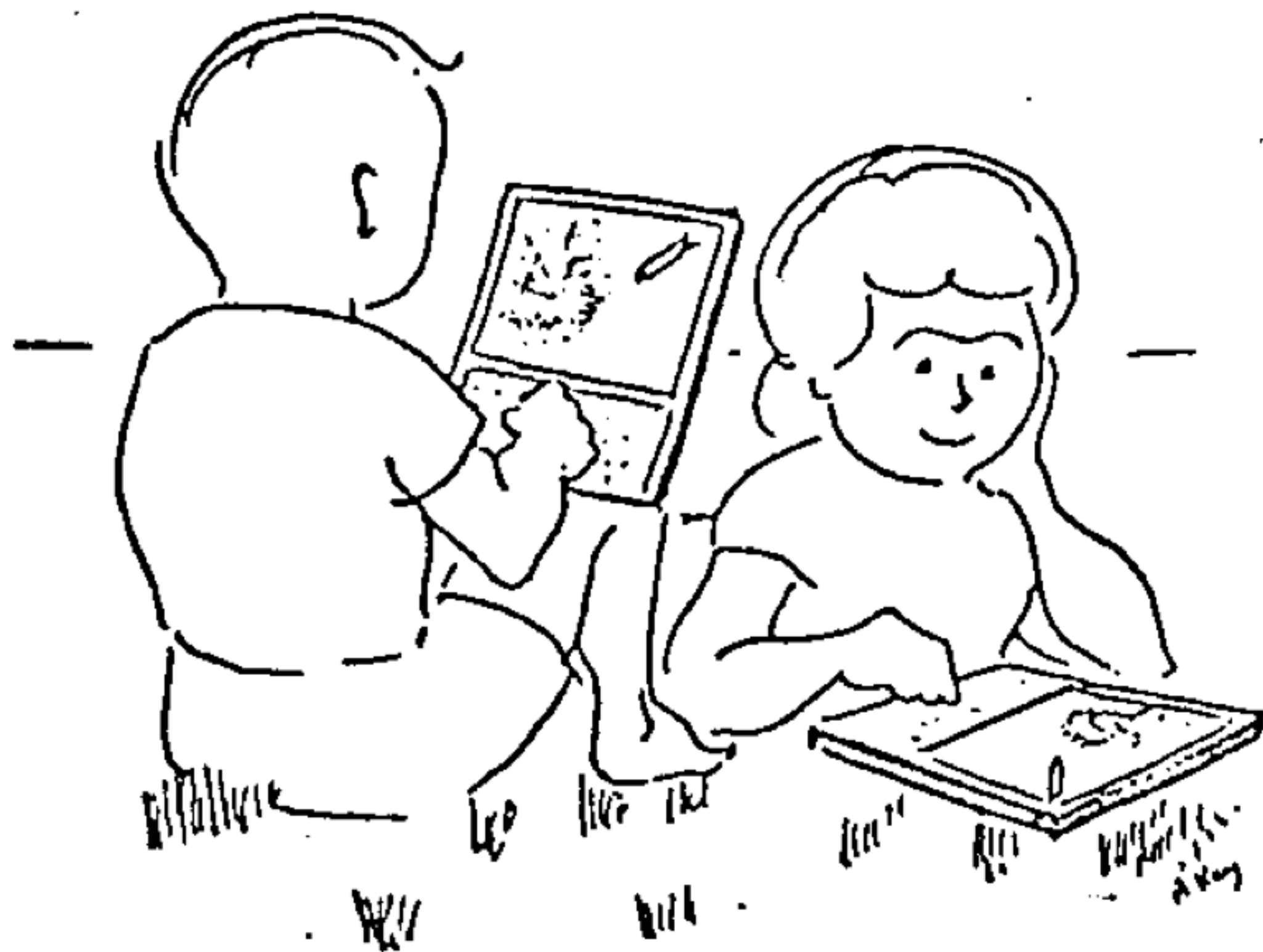
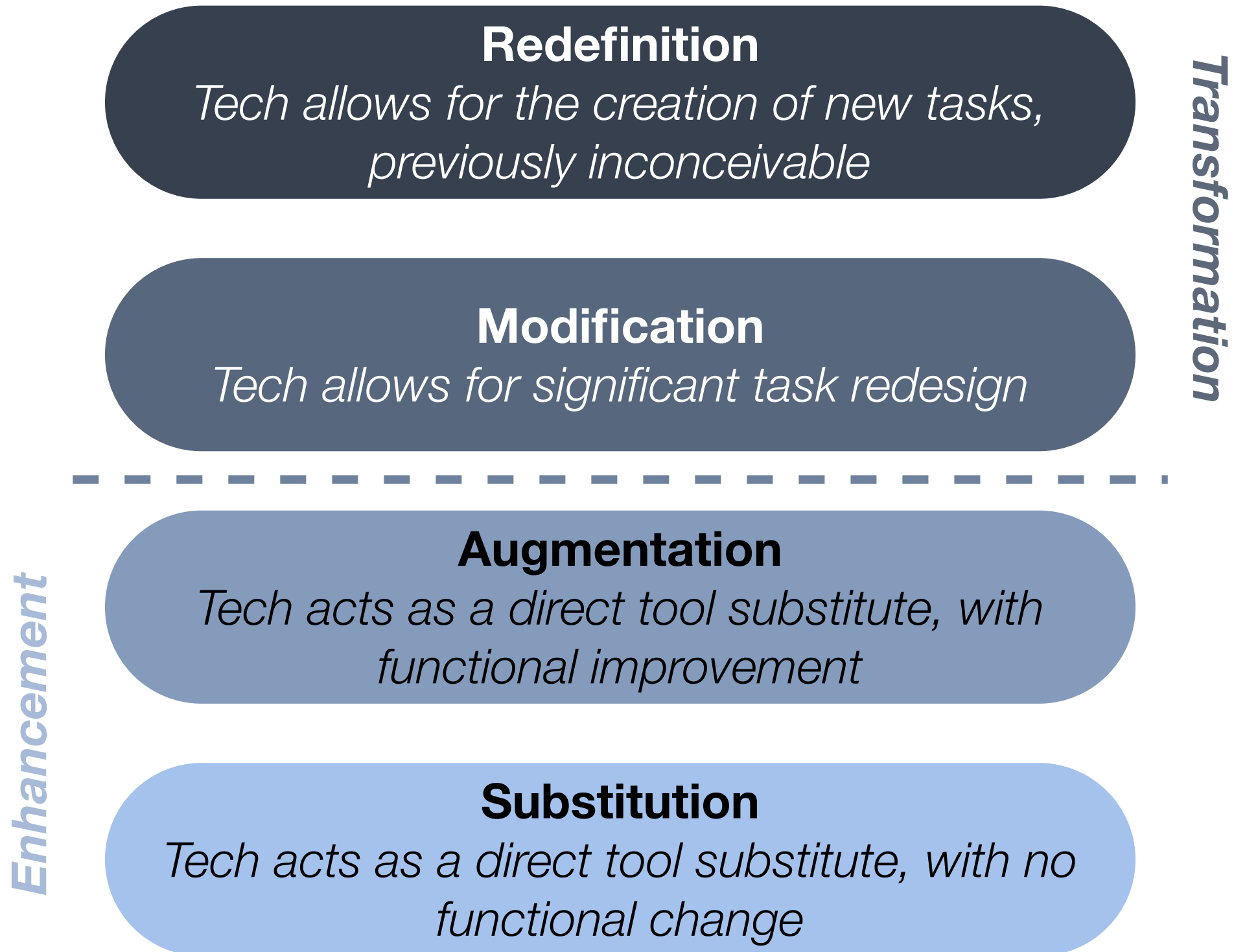


From the Present Into the Future: Four (+1) Paths

Ruben R. Puentedura, Ph.D.







Social Computing

Digital Storytelling

Social

Narrative

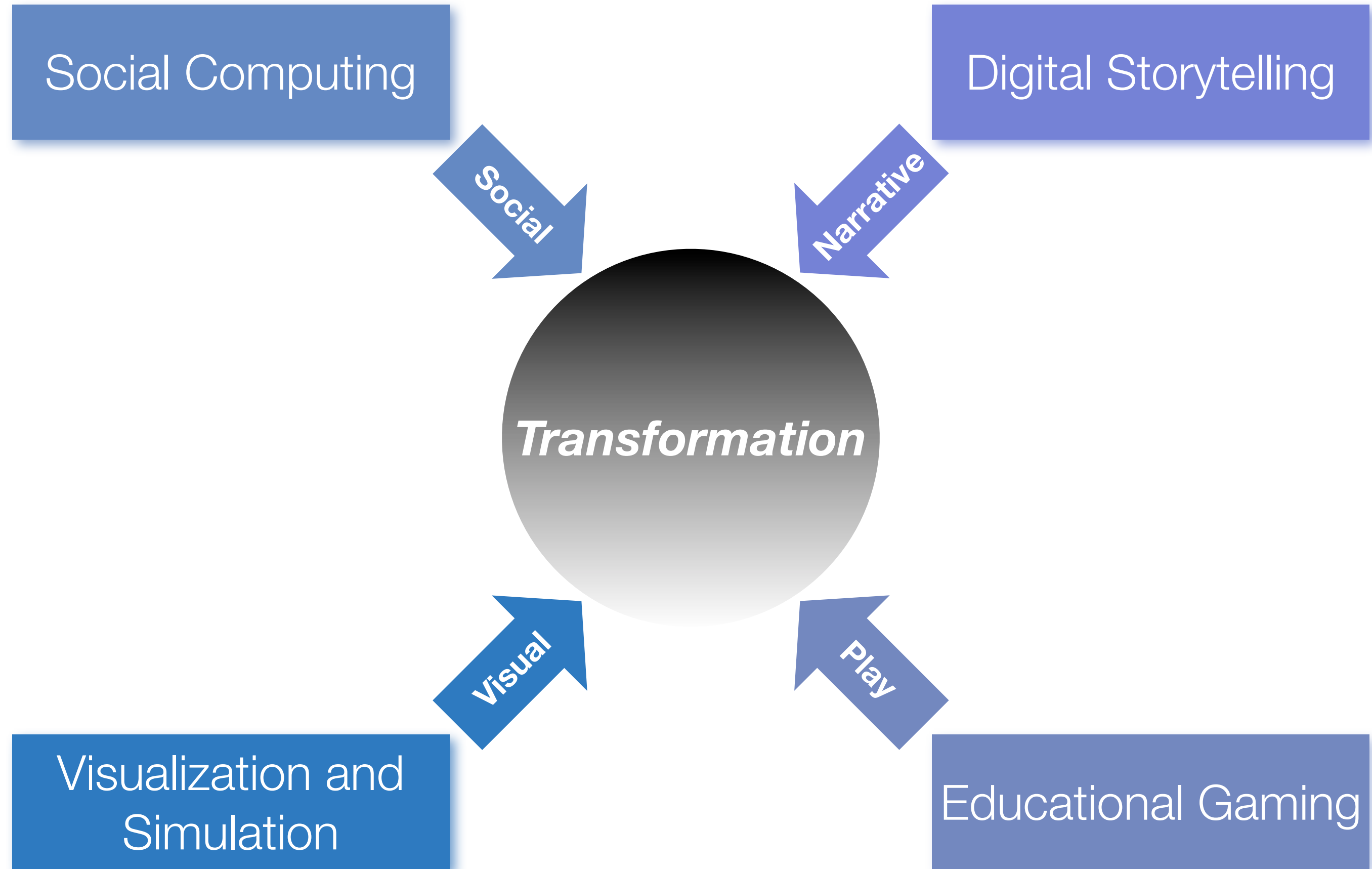
Transformation

Visual

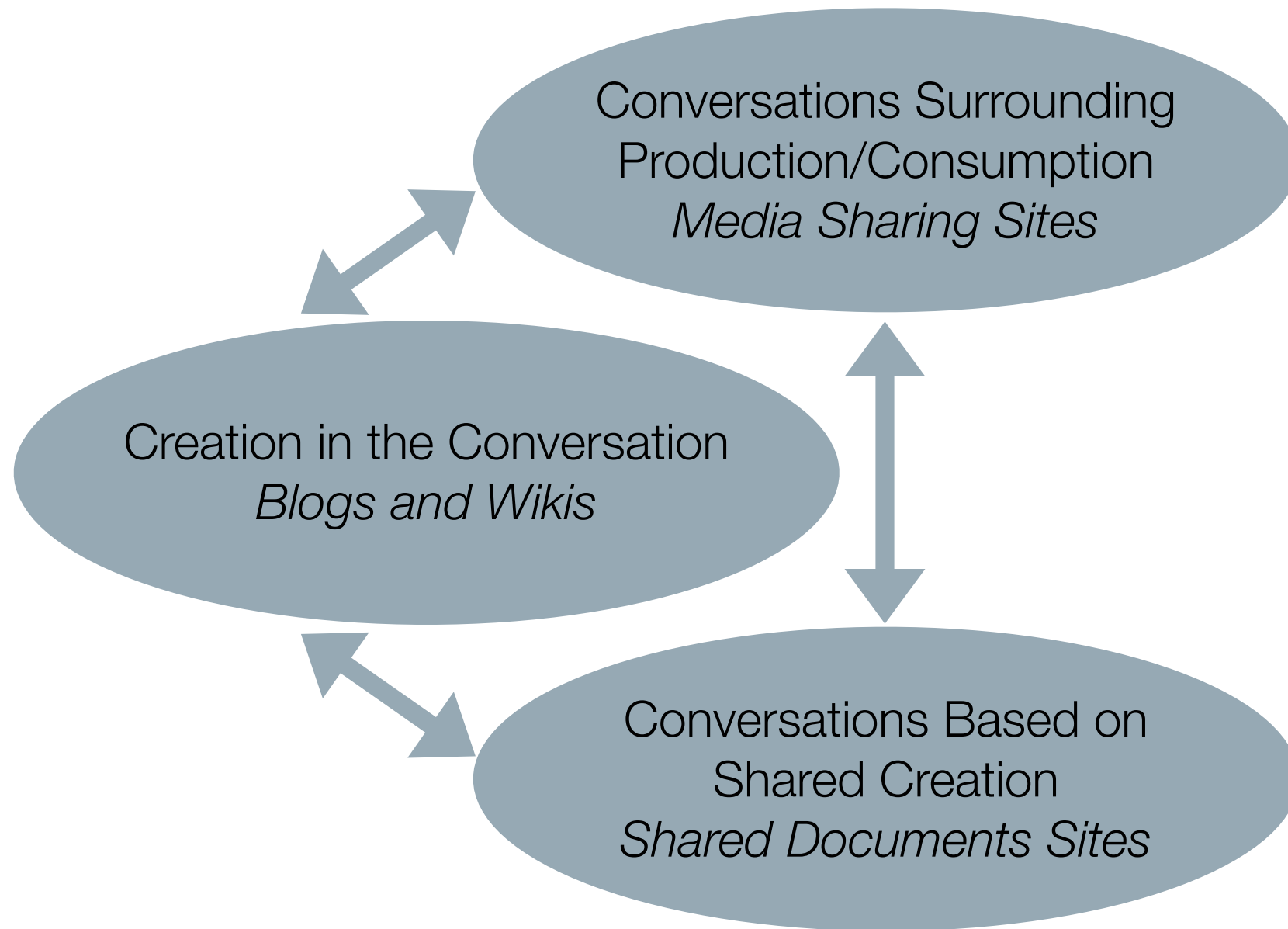
Play

Visualization and
Simulation

Educational Gaming



Social Computing



flickr

Signed in as rubenrp Help Sign Out

Home You Organize Contacts Groups Explore

Search everyone's photos Search

Can't see your photos? Find out why...

Search

Photos Groups People

Everyone's Photos japan SEARCH

Full text Tags only

We found 4,422,140 results for photos matching **japan**.

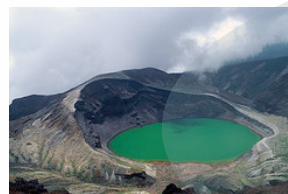
View: Most relevant • Most recent • Most interesting Show: Details • Thumbnails



Japan Service Area
 Uploaded on 24 October 2007

By Altus
 See more photos, or visit his profile.

japan, pentax, freehand, sa ...



JAPAN - Zao Volcano
 Uploaded on 5 May 2007

By BoazImages
 See more photos, or visit his profile.

mountain, lake, green, nature ...



Junko from Japan shabondama style
 Uploaded on 29 June 2006

By shiroibasketshoes
 See more photos, or visit his profile.

park, woman, beautiful, face ...

Conversations Surrounding
 Production/Consumption
Media Sharing Sites

Swivel preview

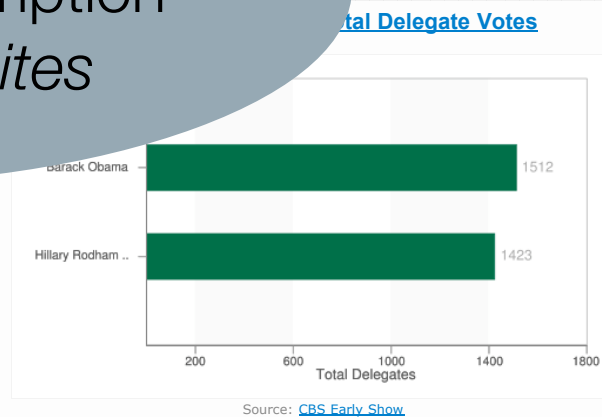
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Join our [user research program](#) and help shape the future of Swivel.

Search



In yesterday's Democratic primaries Clinton showed her strength once again in winning the big states by her victories in Ohio and Texas. However, Obama is still the leading candidate when it comes to [delegates](#). This graph shows the **total number of pledged delegates won by each candidate as of March 5, 2008**. Obama has a total of 1,512 delegates; Clinton, 1,423. A candidate needs 2,025 delegates to win the primary election and Clinton is hoping to narrow the margin so that she may win more superdelegate votes (unpledged) at the Democratic National Convention to be held in Denver in August.

Featured Graphs

[U.S. Greenhouse Gas Emissions](#)

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[Recession?](#)

[brief political interlude](#)

[BOINC - Users by project](#)

[BOINC - Users by project](#)

[feb 29 / mar 1: swivel revisited](#)

[Percentage of firearm ownership by State](#)

[Is this Drought Centered on I-85?](#)

[Surprise! The Plastic Disc Business..](#)

[expenditure per student on post-secondary..](#)

[My Weight Graph](#)

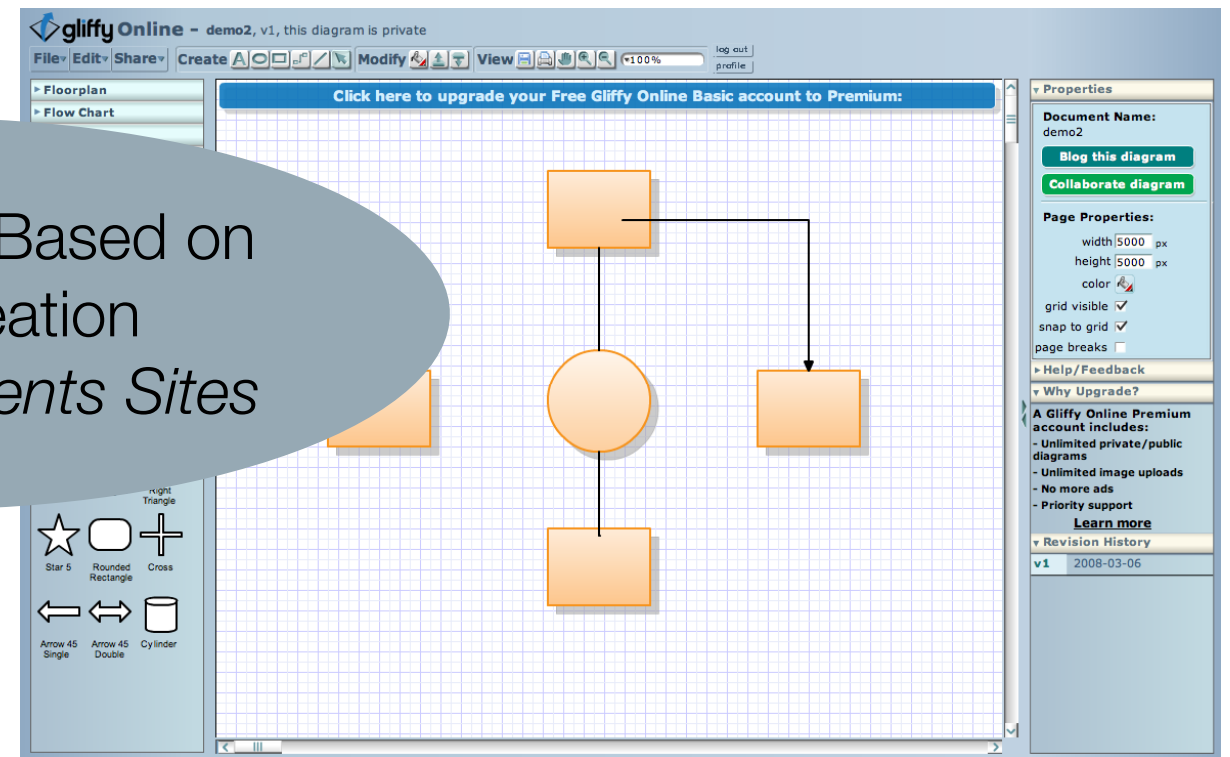
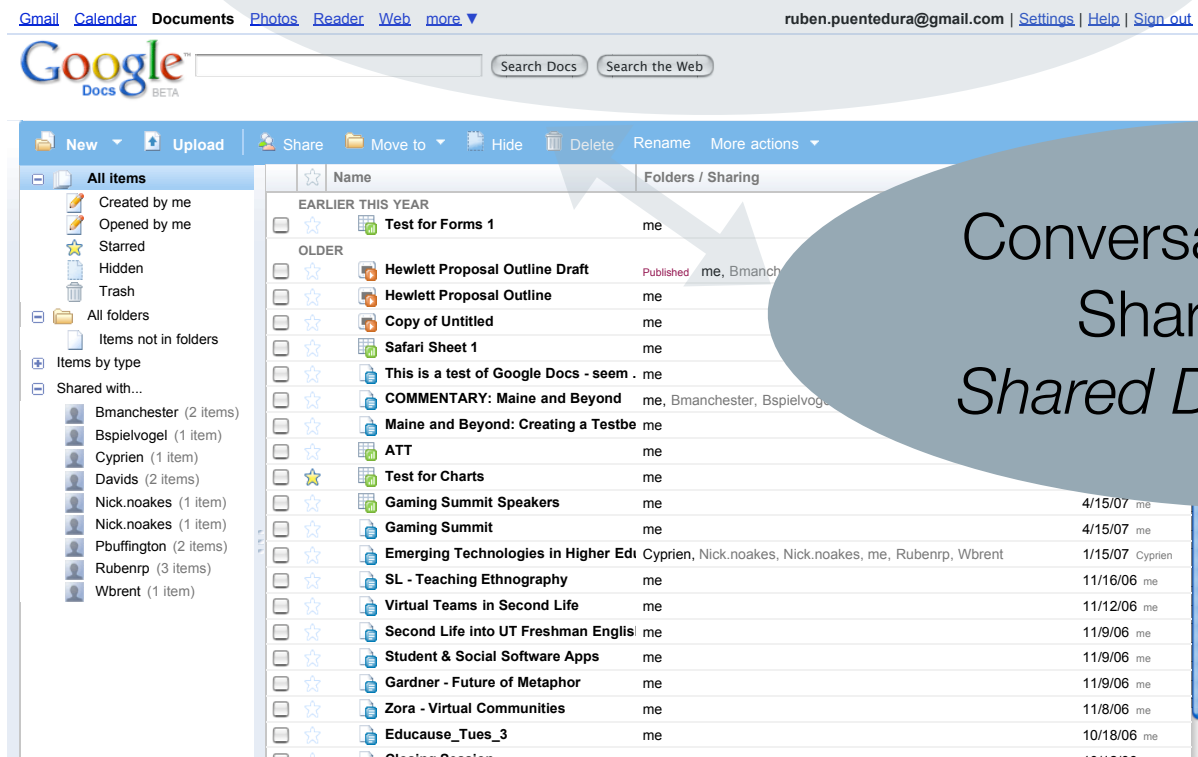
Creation in the Conversation
Blogs and Wikis

Conversations Based on
 Shared Creation
Shared Documents Sites

Conversations Surrounding
Production/Consumption
Media Sharing Sites

Creation in the Conversation
Blogs and Wikis

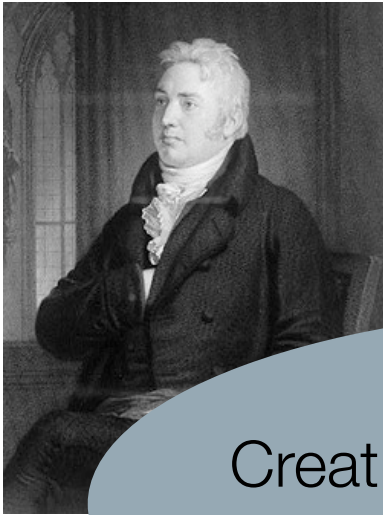
Conversations Based on
Shared Creation
Shared Documents Sites





Samuel Taylor Coleridge

March 3rd, 2008



I was privi...
part of the...
series. The idea...
read thirty minutes...
mostly just great verse. In...
Symposium fame) started the series...
was a great accomplishment. My colleague (and renown...
(lover) Eric Lorentzen has kept the tradition going with panache, and with
deep devotion.

 [Subscribe with Bloglines](#)

Author

Gardner Campbell is a Professor of English at the University of Mary Washington in Fredericksburg, Virginia, where he teaches literature of the English Renaissance, film studies, new media studies, and writing. He's worked in teaching and learning technologies for over a decade, at the University of Mary Washington and the University of Richmond, and currently serves on the Advisory Board of the EDUCAUSE Learning Initiative, the Electronic Campus of Virginia, and the Virginia Technology Advisory Board. He is also a Fellow of the Virginia Academy of the Arts and Sciences.

Creation in the Conversation
Blogs and Wikis

Conversations Surrounding
Production/Consumption
Media Sharing Sites

Conversations Based on
Shared Creative
Shared Documents Sites



[article](#) [discussion](#) [edit this page](#) [history](#)

Wave function collapse

From Wikipedia, the free encyclopedia

In certain [interpretations of quantum mechanics](#), **wave function collapse** is one of two processes by which [quantum systems](#) apparently evolve according to the laws of [quantum mechanics](#). It is also called *collapse of the state vector* or *reduction of the wave packet*. The reality of wave function collapse has always been debated, i.e., whether it is a fundamental physical phenomenon in its own right (which may yet emerge from a [theory of everything](#)) or just an [epiphenomenon](#) of another process, such as [quantum decoherence](#). In recent decades the quantum decoherence view has gained popularity.

Contents [\[hide\]](#)

- 1 Outline
- 2 History and context
- 3 Notes
- 4 See also

Outline

The state or [wave function](#) of physical system, at some time, can be expressed in Dirac or [bra-ket notation](#) as:

$$|\psi\rangle = \sum_i |i\rangle \psi_i$$

where the $|i\rangle$ s specify the different quantum "alternatives" available (technically, they form an [orthonormal eigenvector basis](#) which implies $\langle i|j\rangle = \delta_{ij}$). An observable or measurable parameter of the system is associated with each eigenbasis, with each quantum alternative having a specific value or [eigenvalue](#), e_i , of the observable.

The $\psi_i = \langle i|\psi\rangle$ are the [probability amplitude](#) coefficients, which are [complex numbers](#). For simplicity we shall assume that our wave function is normalised: $\langle \psi|\psi\rangle = 1$, which implies that

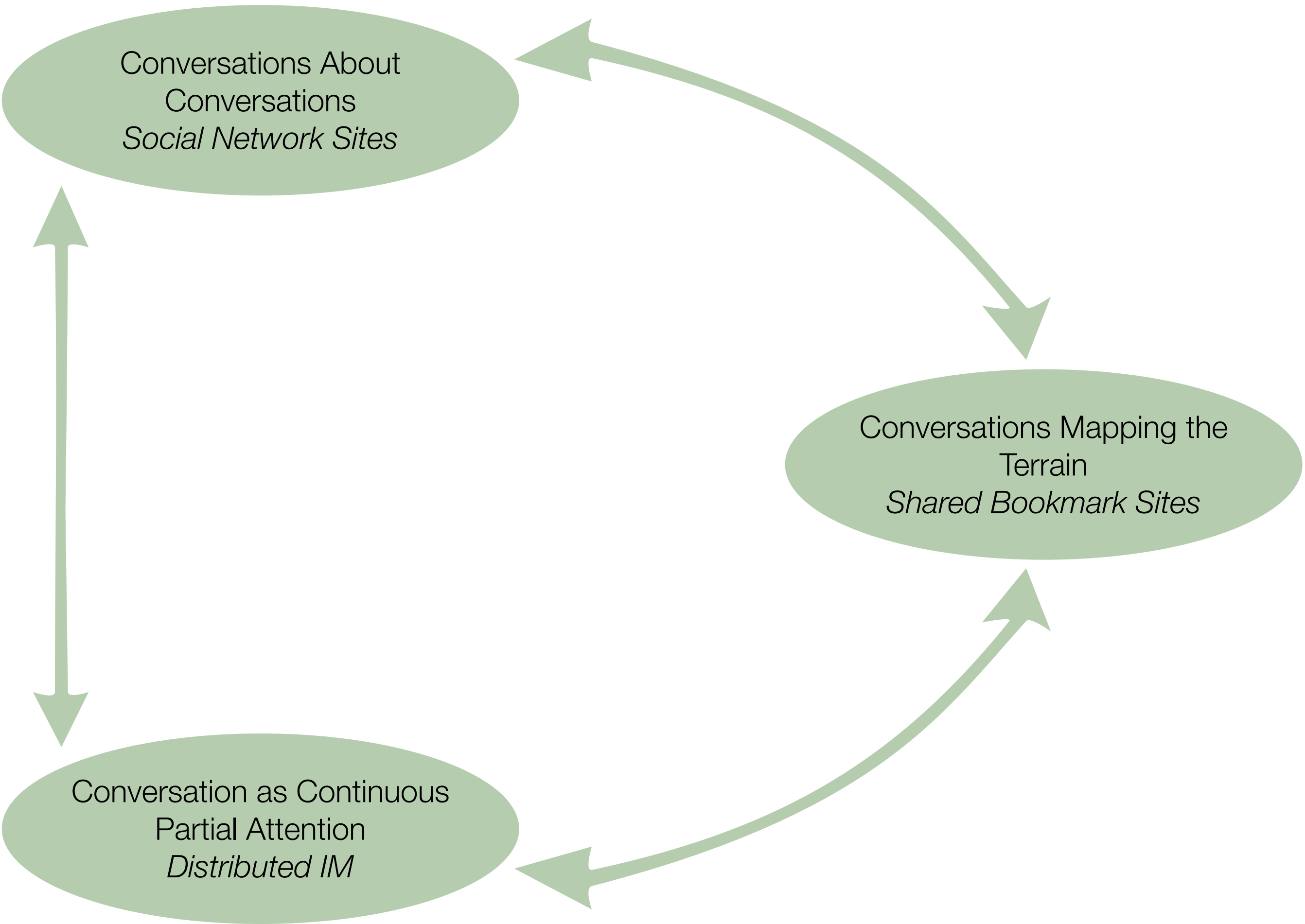
$$\langle \psi|\psi\rangle = \sum_i |\psi_i|^2 = 1.$$

With these definitions it is easy to describe the process of collapse:

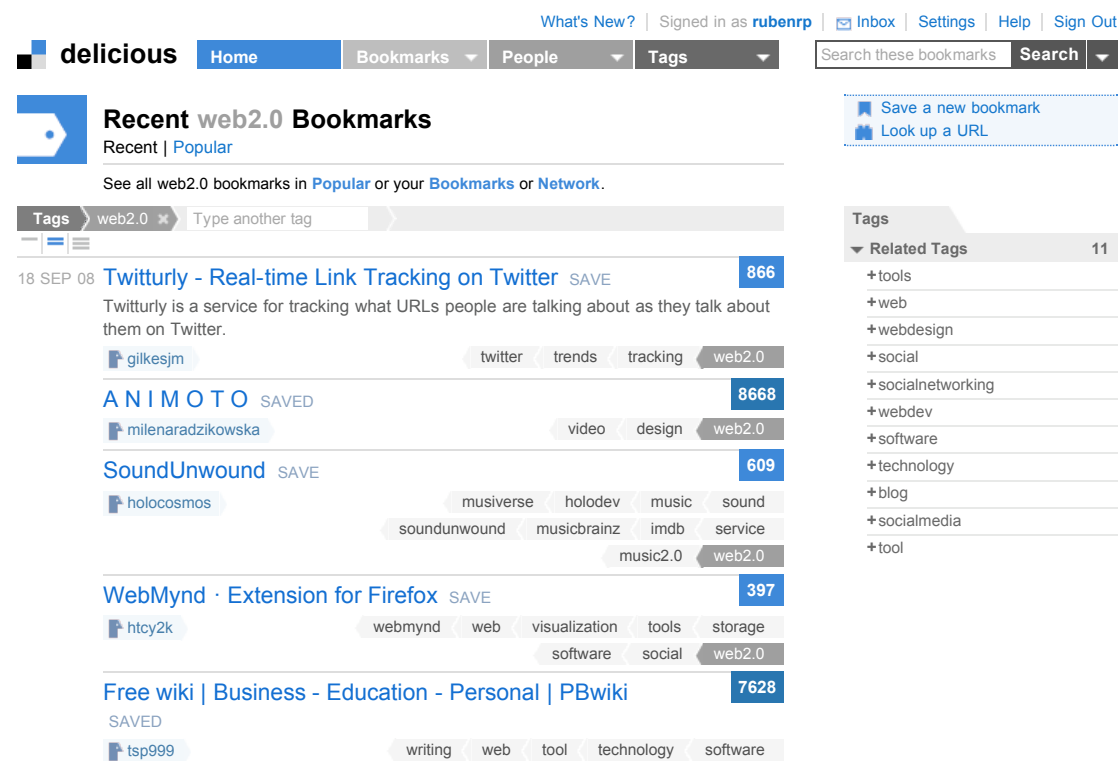
When an external agency measures the observable associated with the eigenbasis then the state of the wave function changes from $|\psi\rangle$ to just *one* of the $|i\rangle$ s with [Born probability](#) $|\psi_i|^2$. This is called collapse because all the other terms in the expansion of the wave function have vanished or collapsed into nothing.

If a more general measurement is made to detect if the system is in a state $|\phi\rangle$ then the system makes a "jump" or [quantum leap](#) from the original state $|\psi\rangle$ to the final state $|\phi\rangle$ with probability of $|\langle \psi|\phi\rangle|^2$. Quantum leaps and wave function collapse are therefore opposite sides of the same coin.

History and context



Conversations About
Conversations
Social Network Sites



Conversation as Continuous
Partial Attention
Distributed IM

Conversations Mapping the
Terrain
Shared Bookmark Sites

Conversations About
Conversations
Social Network Sites



Conversation as Continuous
Partial Attention
Distributed IM

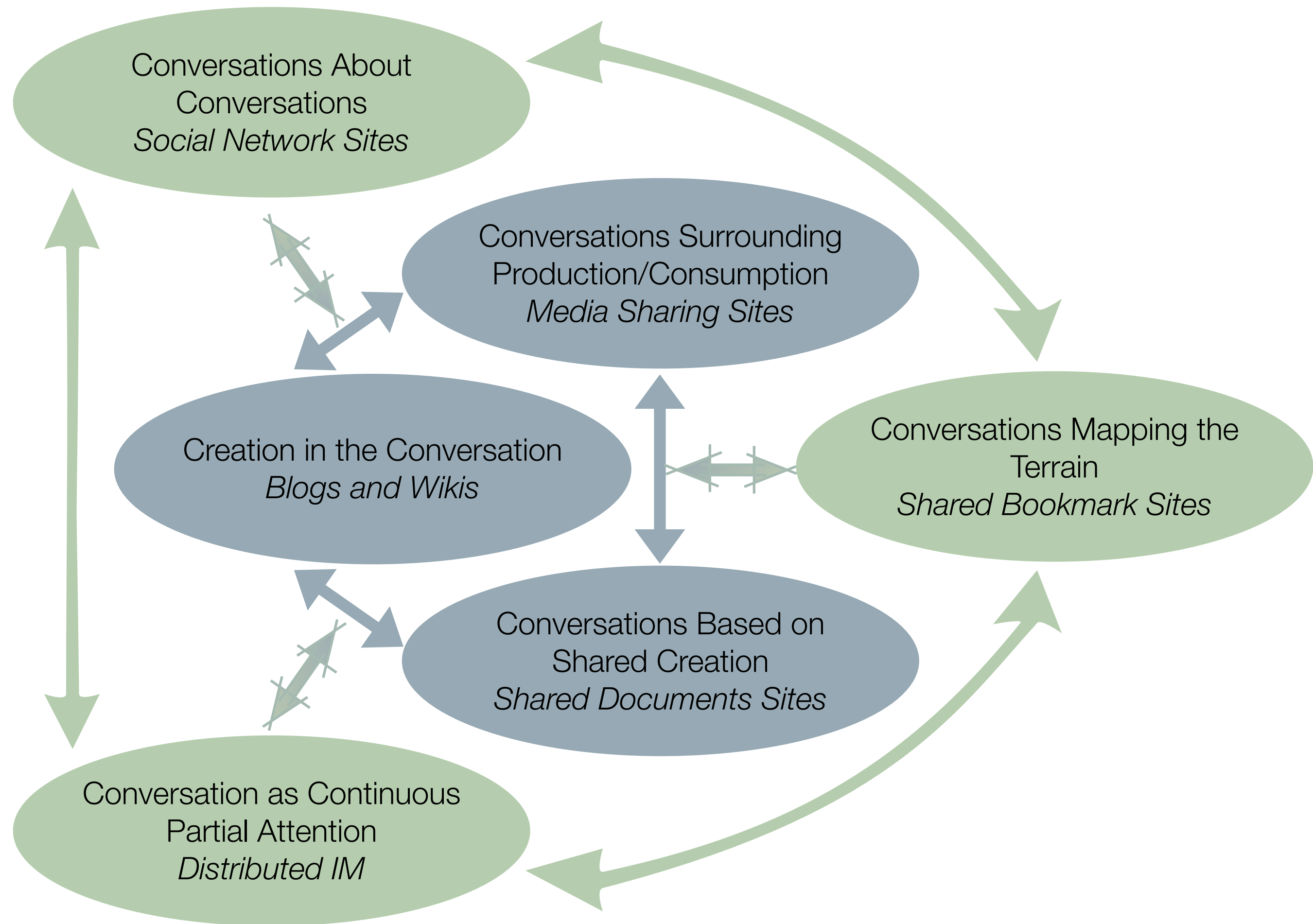
Conversations Mapping the
Terrain
Shared Bookmark Sites

Conversations About
Conversations
Social Network Sites



Conversation as Continuous
Partial Attention
Distributed IM

Conversations Mapping the
Terrain
Shared Bookmark Sites

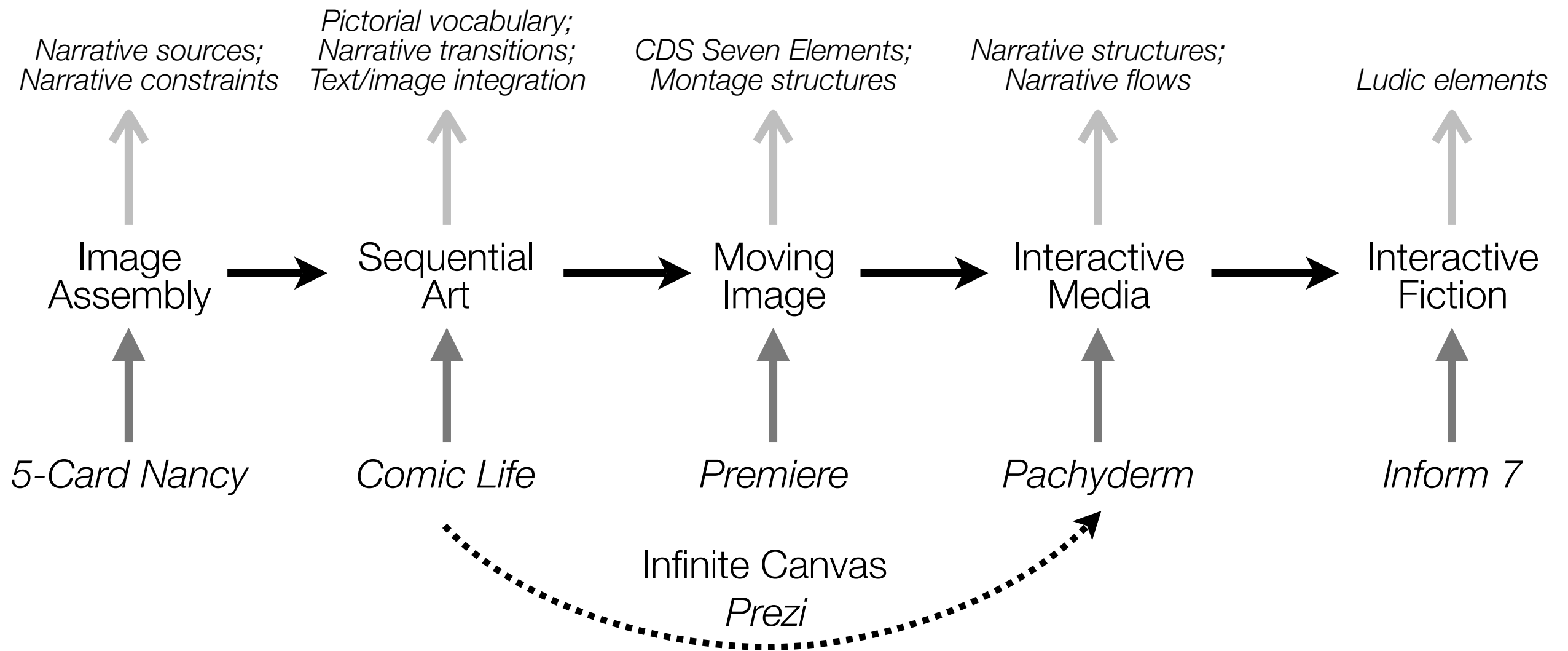


Digital Storytelling









five card *Nancy*



INTRODUCTION

THE GAME

HALL OF FAME

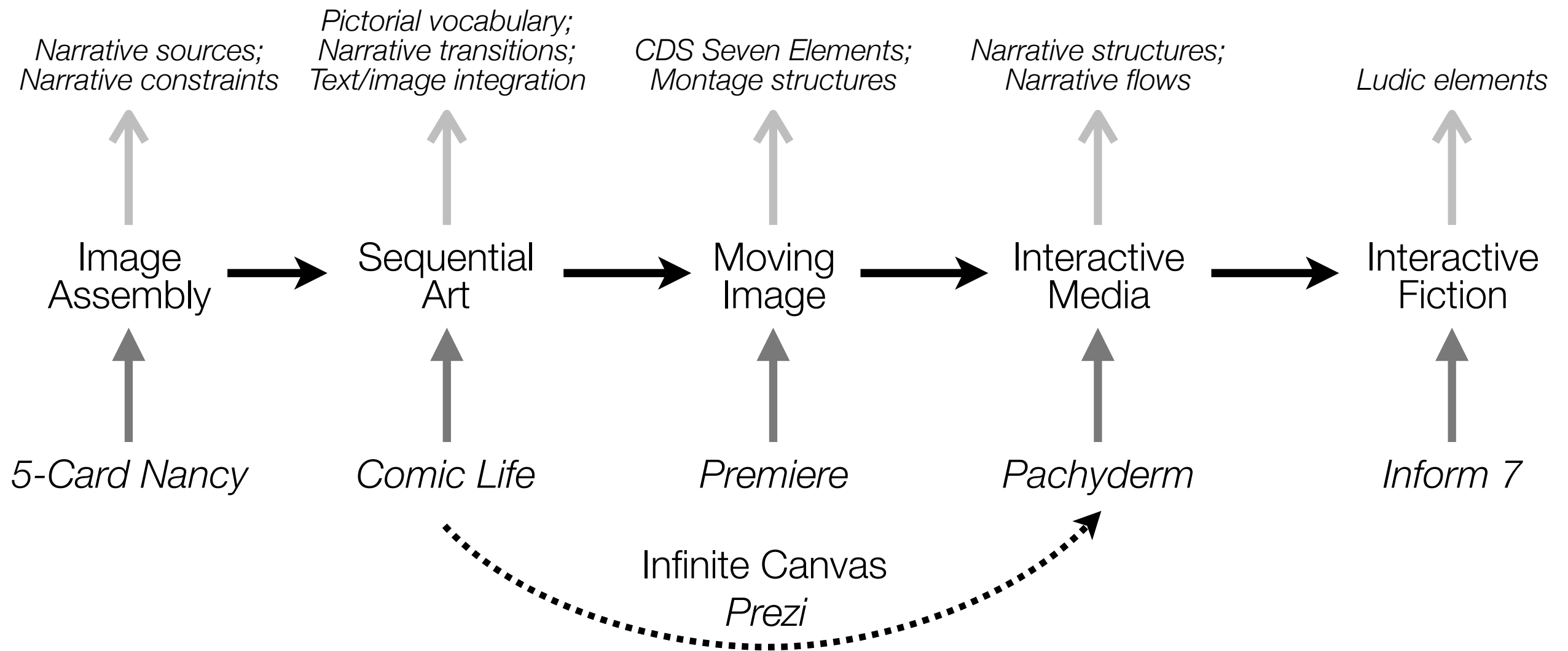
The Game

The sequence so far:



Click on a panel to add it to the sequence:





FIRST, WE HAVE THE **WORD SPECIFIC** COMBINATIONS, WHERE PICTURES *ILLUSTRATE*, BUT DON'T SIGNIFICANTLY ADD TO A LARGELY COMPLETE TEXT.



WE STUMBLED BACK TO THE APARTMENT SHORTLY BEFORE DAWN, *VOMITTING* EVERY 20 YARDS.

JUDY GAVE ME HER KEYS AND SMILED.



THE UNITED STATES CONSTITUTION WAS ADOPTED BY THE *SECOND CONTINENTAL CONGRESS* IN 1787 AND PUT INTO EFFECT IN 1789.



ANOTHER TYPE IS THE **ADDITIVE** COMBINATION WHERE WORDS *AMPLIFY* OR *ELABORATE* ON AN IMAGE OR VICE VERSA.



MY HEAD FEELS LIKE A *SMASHED PUMPKIN*!



HOW D'YA LIKE MY *NEW THREADS*, BABE?



IS THIS THE SAME *JUPITER* OF MY YOUTH?



PERHAPS THE MOST COMMON TYPE OF WORD/PICTURE COMBINATION IS THE **INTER-DEPENDENT**, WHERE WORDS AND PICTURES GO *HAND IN HAND* TO CONVEY AN IDEA THAT NEITHER COULD CONVEY *ALONE*.



MEANWHILE... DID ANYONE *SEE* YOU?



THIS IS ALL I NEED TO *STOP* HIM!



I ASK YOU, DOES THIS GUY LOOK LIKE A *C.E.O.* TO YOU??



"AND JUST *GUESS* WHO DROVE UP IN BOB'S TRUCK AN HOUR LATER!"



HEY, MARGE! OH, MY *GOD!*

"AFTER COLLEGE, I PURSUED A CAREER IN *HIGH FINANCE*."



HE'S LYING.



HURRY UP, WILL YA?!

THEN THERE ARE **PICTURE SPECIFIC** COMBINATIONS WHERE WORDS DO LITTLE MORE THAN ADD A *ROUNDTRACK* TO A VISUALLY TOLD SEQUENCE.



IN **PARALLEL** COMBINATIONS, WORDS AND PICTURES SEEM TO FOLLOW VERY DIFFERENT COURSES--WITHOUT *INTERSECTING*.



"TALKED TO *BILL* YET?"

"SALLY DID *WHY?*"

"THE *TEST RESULTS* CAME BACK. ALL *NEGATIVE*."

"*REALLY?*" THAT'S GREAT!"

WELL...



AND, OF COURSE, **DUO-SPECIFIC** PANELS IN WHICH BOTH WORDS AND PICTURES SEND ESSENTIALLY THE *SAME MESSAGE*.



GRIM-FACED, GEORGE LIFTED HIS *LOLLYPOP*.



BUT THE CAPTAIN'S MIGHTY BLOW *MISSSES* ITS INTENDED TARGET!

BLAST! HE DODGED MY PUNCH AND I STRUCK THIS *BRICK WALL*!



HA! I DODGED YOU!

I FEEL SO *SAD!*



...THOUGHT AMY.

STILL ANOTHER OPTION IS THE **MONTAGE** WHERE WORDS ARE TREATED AS INTEGRAL PARTS OF THE PICTURE.



INTERDEPENDENT COMBINATIONS AREN'T ALWAYS AN *EQUAL BALANCE* THOUGH AND MAY FALL *ANYWHERE* ON A SCALE BETWEEN TYPES ONE AND TWO.

P
W



GENERALLY SPEAKING, THE MORE IS SAID WITH *WORDS*, THE MORE THE PICTURES CAN BE FREED TO GO *EXPLORING* AND *VICE VERSA*.

W
P

Educational Gaming

Formal Definition of **Play** (Salen & Zimmerman)

“Play is free movement within a more rigid structure.”



Formal Definition of **Game** (Salen & Zimmerman)

“A game is a system in which players engage in an artificial conflict, defined by rules, that results in a quantifiable outcome.”



Narrative

IF



Graphic Adv.



Action/Adv.



RPGs



MMOGs



ARGs



Sims

RTS

Mil.

TBS

Mid.

TBS

Simulation



Other

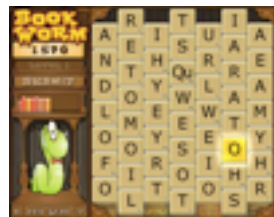
Board



Traditional



Puzzle



Shmups



Platformers



FPS



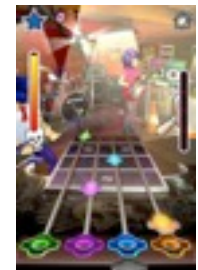
Fighting



Sports



Vehicle



Rhythm

Action

Active Learning

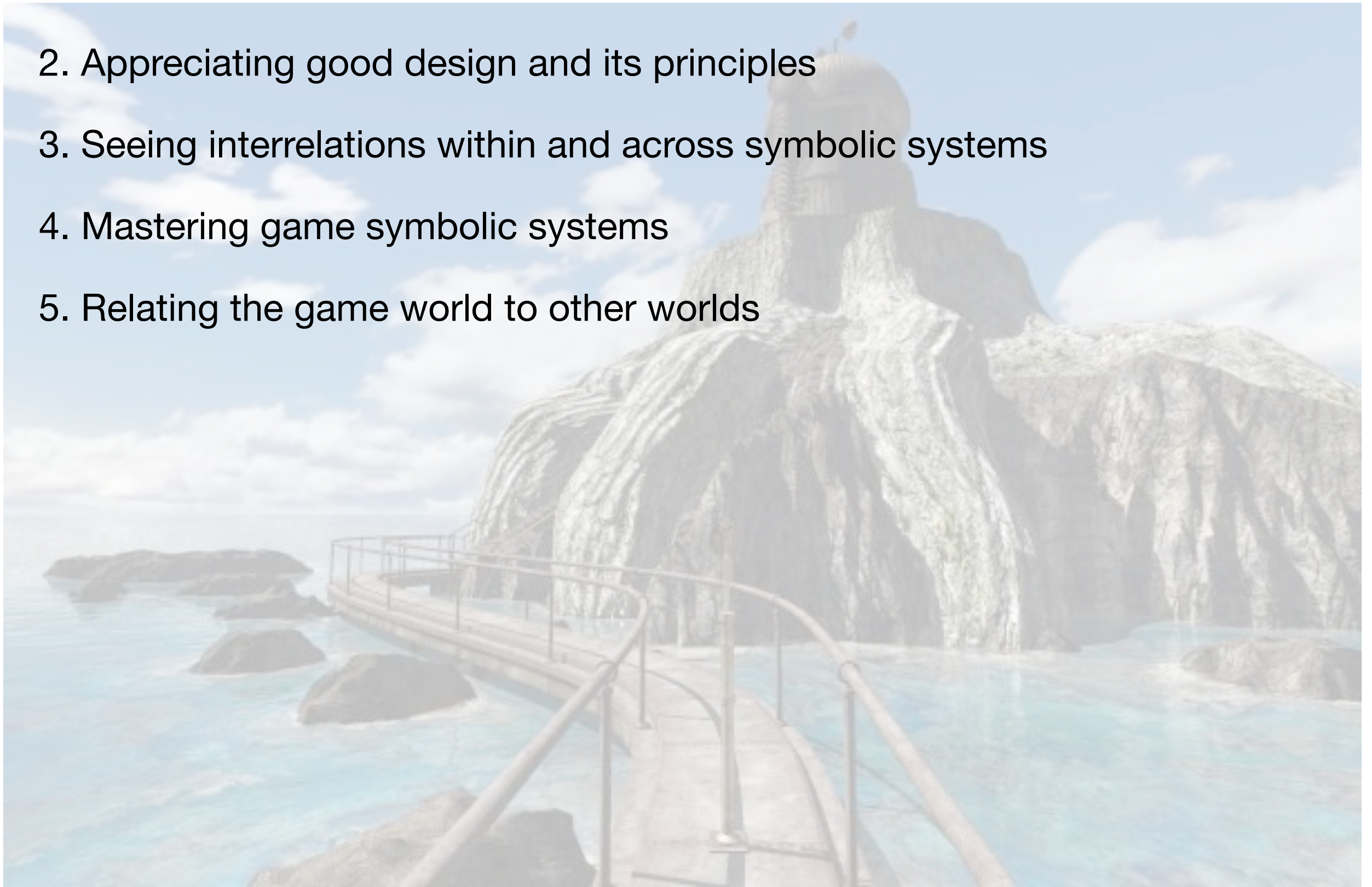
Gamers Learn From:

1. Doing and reflecting critically



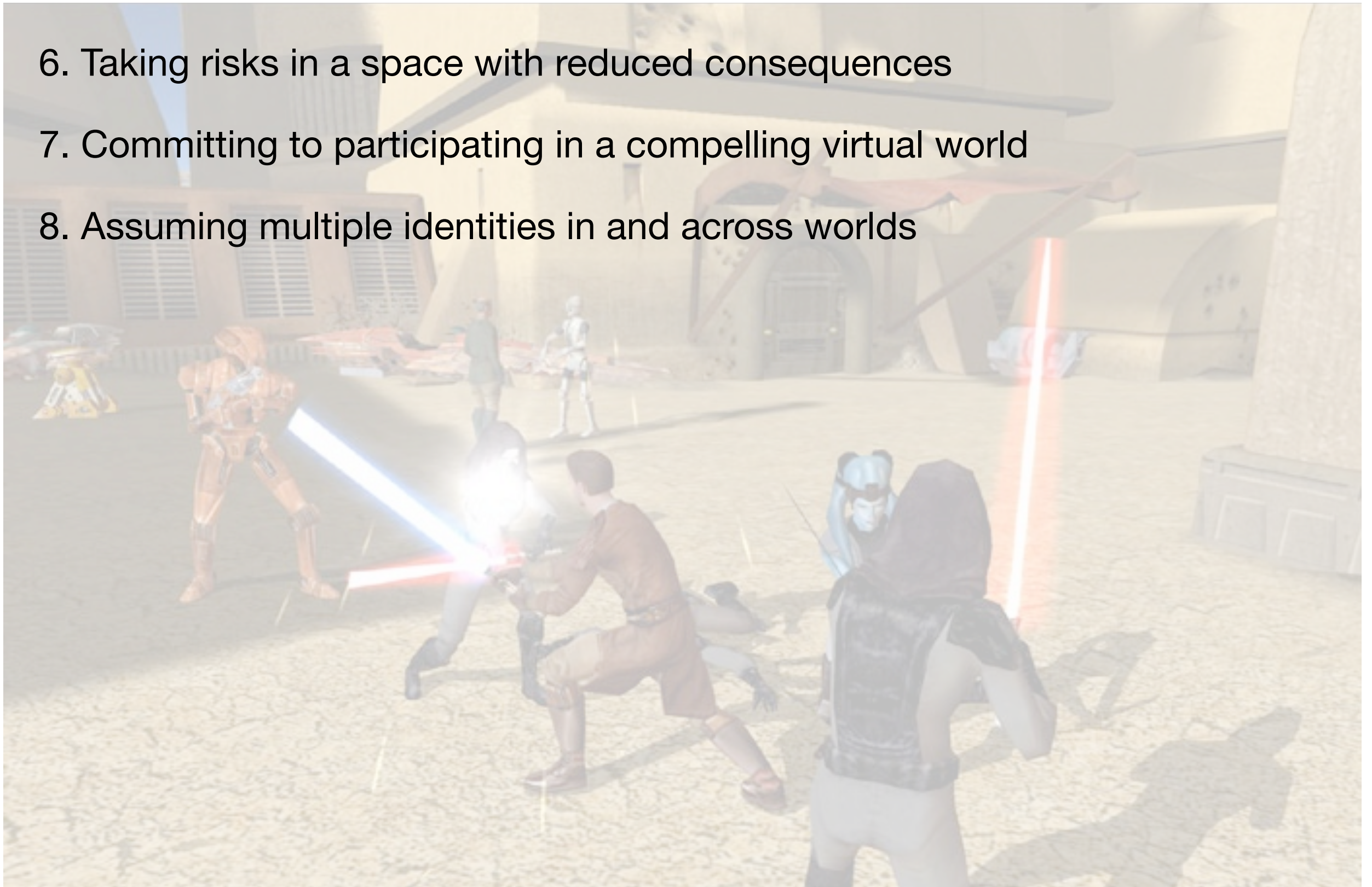
Symbolic Systems

2. Appreciating good design and its principles
3. Seeing interrelations within and across symbolic systems
4. Mastering game symbolic systems
5. Relating the game world to other worlds

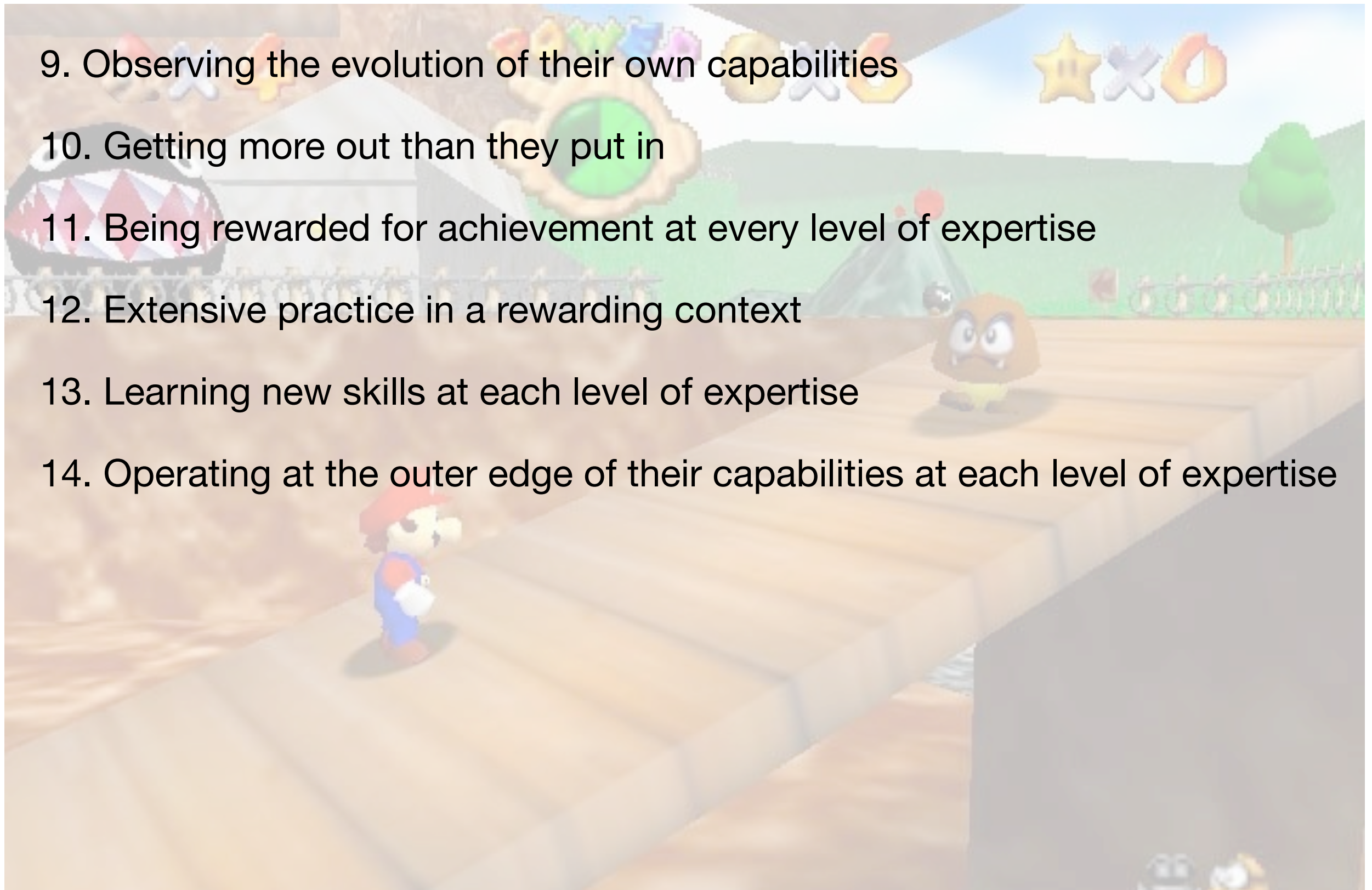


Worlds and Identities

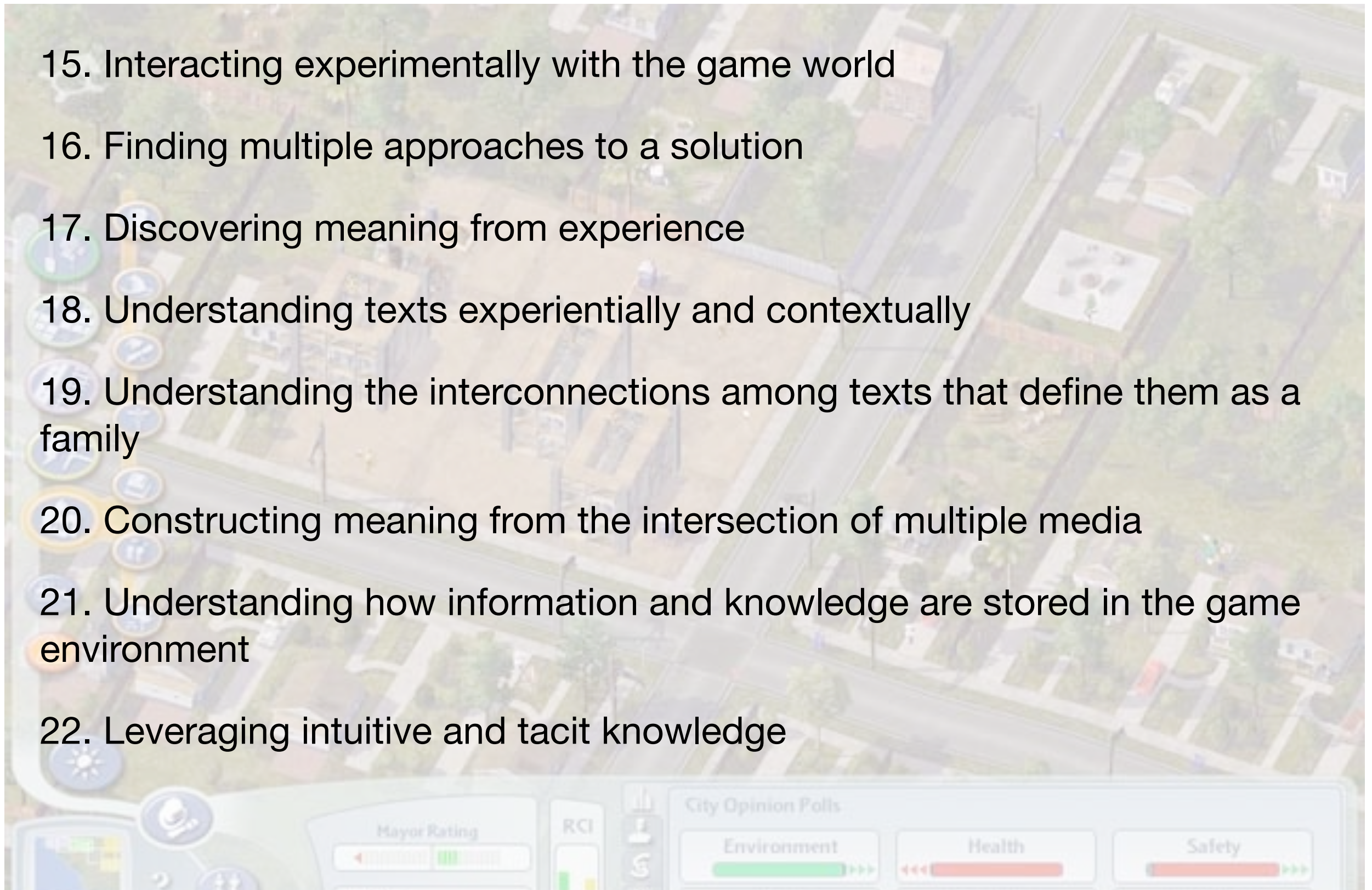
- 6. Taking risks in a space with reduced consequences
- 7. Committing to participating in a compelling virtual world
- 8. Assuming multiple identities in and across worlds



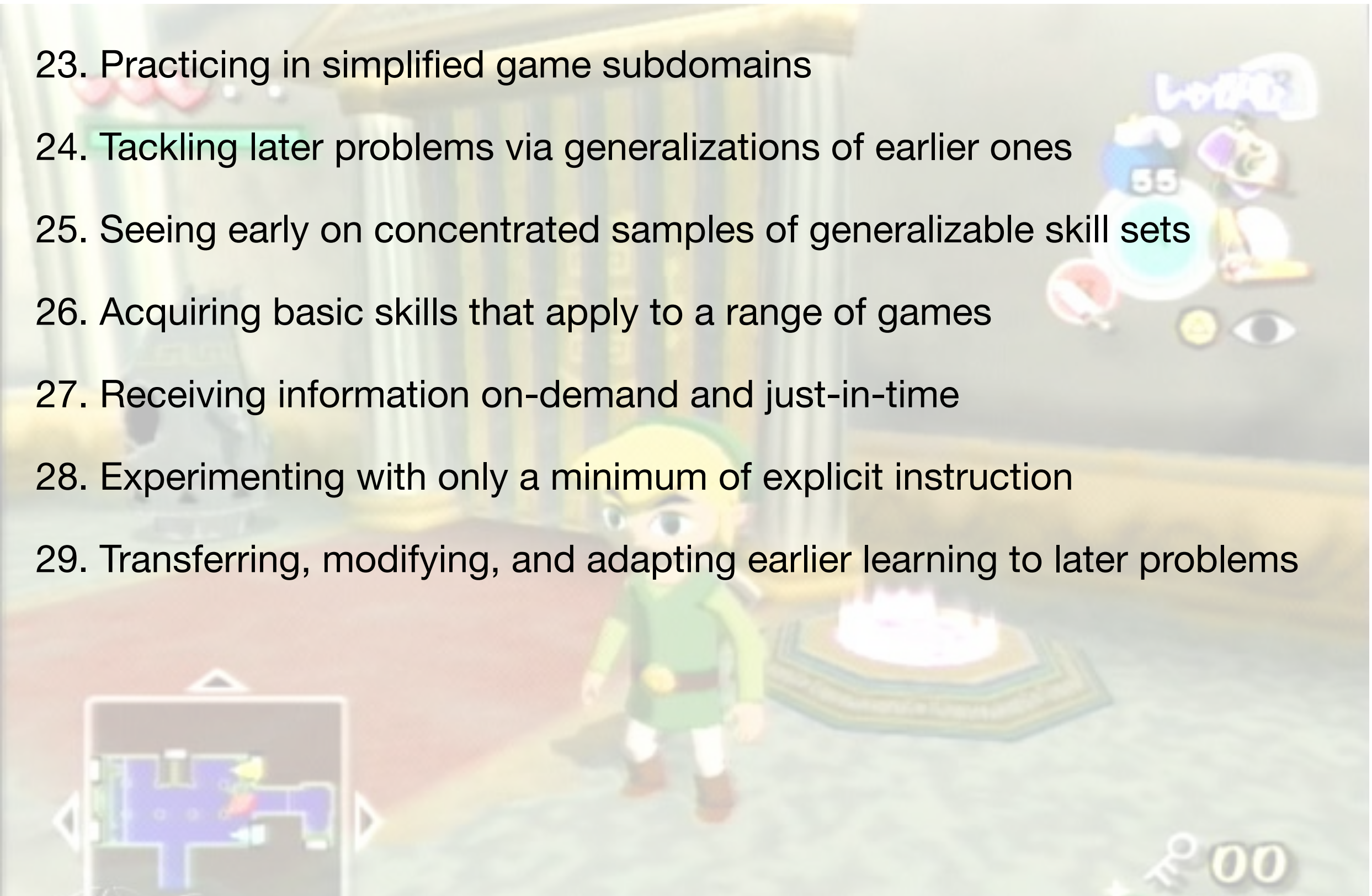
Development of Capabilities

- 
- 9. Observing the evolution of their own capabilities
 - 10. Getting more out than they put in
 - 11. Being rewarded for achievement at every level of expertise
 - 12. Extensive practice in a rewarding context
 - 13. Learning new skills at each level of expertise
 - 14. Operating at the outer edge of their capabilities at each level of expertise

Experiential Learning

- 
- The background of the slide is a screenshot from a city simulation game. It shows an aerial view of a city with various buildings, roads, and green spaces. On the left side, there is a vertical column of circular icons representing different city services or departments. At the bottom of the screen, there is a user interface with several panels. One panel shows 'Mayor Rating' with a green progress bar. Another panel shows 'RCI' with a green progress bar. A third panel is titled 'City Opinion Polls' and contains three sub-sections: 'Environment' with a green progress bar, 'Health' with a red progress bar, and 'Safety' with a red progress bar. The list of 12 items is overlaid on the left side of the game interface.
15. Interacting experimentally with the game world
 16. Finding multiple approaches to a solution
 17. Discovering meaning from experience
 18. Understanding texts experientially and contextually
 19. Understanding the interconnections among texts that define them as a family
 20. Constructing meaning from the intersection of multiple media
 21. Understanding how information and knowledge are stored in the game environment
 22. Leveraging intuitive and tacit knowledge

Developing Skills

- 
- 23. Practicing in simplified game subdomains
 - 24. Tackling later problems via generalizations of earlier ones
 - 25. Seeing early on concentrated samples of generalizable skill sets
 - 26. Acquiring basic skills that apply to a range of games
 - 27. Receiving information on-demand and just-in-time
 - 28. Experimenting with only a minimum of explicit instruction
 - 29. Transferring, modifying, and adapting earlier learning to later problems

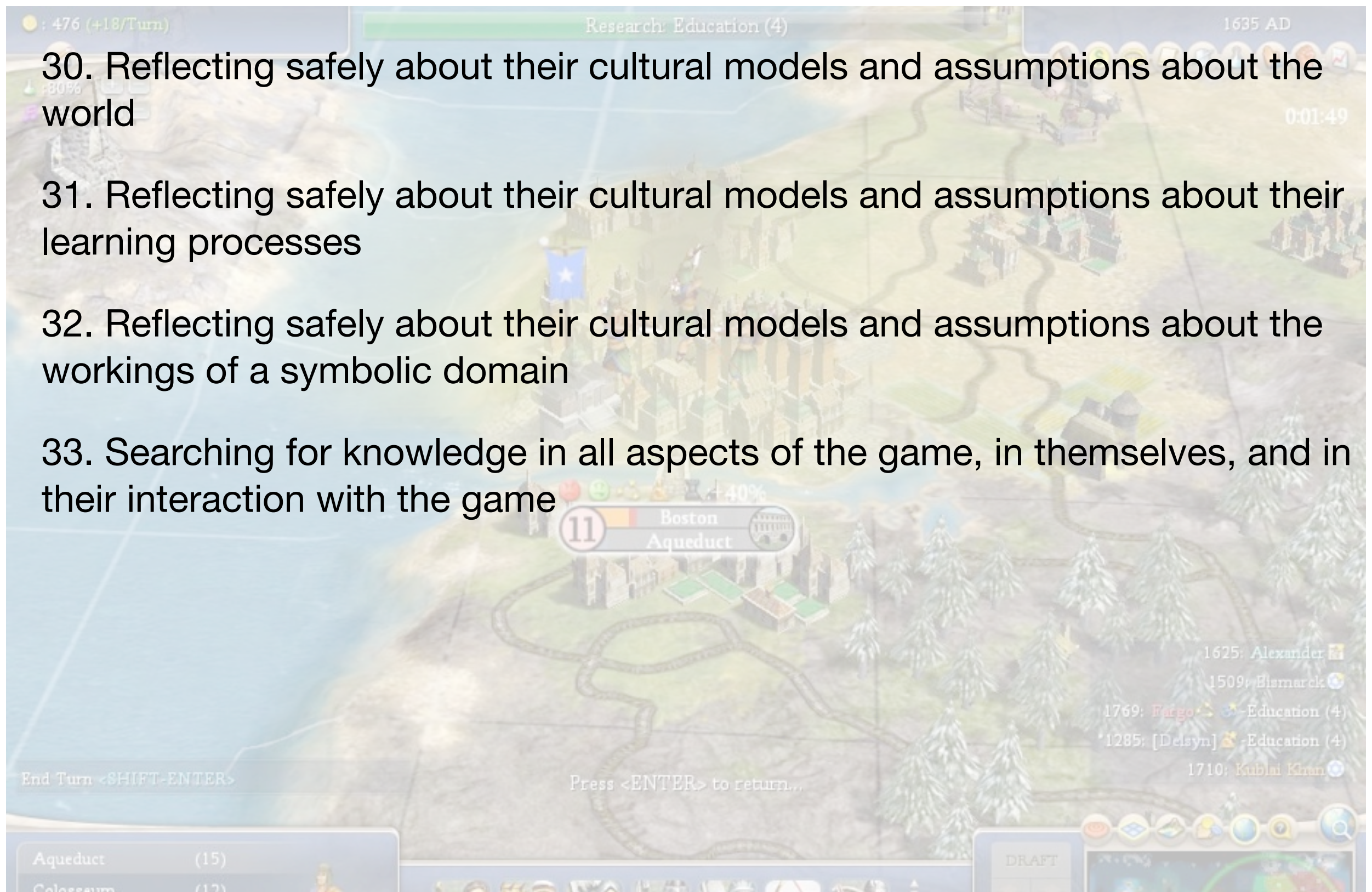
Cultural Models

30. Reflecting safely about their cultural models and assumptions about the world

31. Reflecting safely about their cultural models and assumptions about their learning processes

32. Reflecting safely about their cultural models and assumptions about the workings of a symbolic domain

33. Searching for knowledge in all aspects of the game, in themselves, and in their interaction with the game



Community

- 34. Sharing their knowledge with other players
- 35. Forming a distinct community via shared interests in the gaming world
- 36. Teaching others and modifying the game experience



Effectiveness of Games in Education

(Mayo 2009)

Table 1. Learning outcomes of several games compared to lecture on same material.

Game	Topic	Audience	N (study size)	Learning outcome over lecture	Reference
Dimenxian/ Evolver	Algebra	High school	193	7.2%	(37–39)
Geography Explorer	Geography	College	273	15 to 40%	(40)
NIU Torcs	Numerical methods	College	86	2× more time spent on homework, much more detailed concept maps	(10–11)
River City	Ecology/ biology	Middle/high school	≈2000	15 to 18%, on average	(13)
Supercharged!	Electrostatics	Middle school	90	+8%	(41)
Virtual Cell	Cell biology	College	238	40%, on average	(40)

Visualization and Simulation

Nº1.

16th Century

17th Century

18th Century

19th Century

Elizabeth

James I

Charles I

Cromwell Charles II

James II

William and Mary

Anne

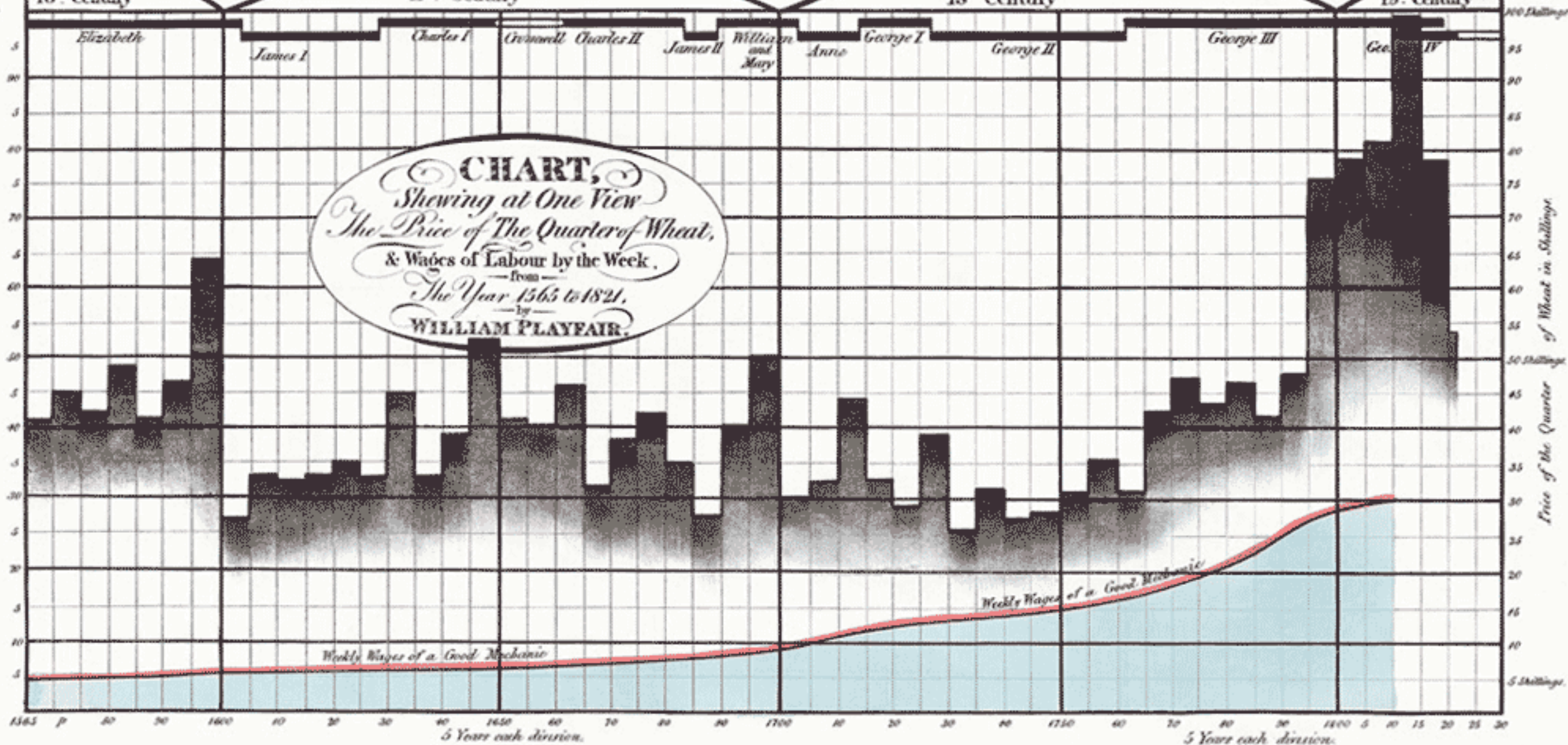
George I

George II

George III

George IV

CHART,
Shewing at One View
The Price of The Quarter of Wheat,
& Wages of Labour by the Week,
— from —
The Year 1565 to 1821.
— by —
WILLIAM PLAYFAIR.



Carte Figurative des pertes successives en hommes de l'Armée Française dans la campagne de Russie 1812-1813.

Dressée par M. Minard, Inspecteur Général des Ponts et Chaussées en retraite.

Paris, le 20 Novembre 1869.

Les nombres d'hommes présents sont représentés par les largeurs des zones colorées à raison d'un millimètre pour dix mille hommes; ils sont de plus écrits en travers des zones. Le rouge désigne les hommes qui ont été en Russie; le noir ceux qui en sont sortis. Les renseignements qui ont servi à dresser la carte ont été puisés dans les ouvrages de M. M. Thiers, de Ségur, de Fezensac, de Chambray et le journal inédit de Jacob, pharmacien de l'Armée depuis le 28 Octobre.

Pour mieux faire juger à l'œil la diminution de l'armée, j'ai supposé que les corps du Prince Jérôme et du Maréchal Davoust qui avaient été détachés sur Minsk et Mohilow et qui rejoignirent Orscha et Witebsk, avaient toujours marché avec l'armée.

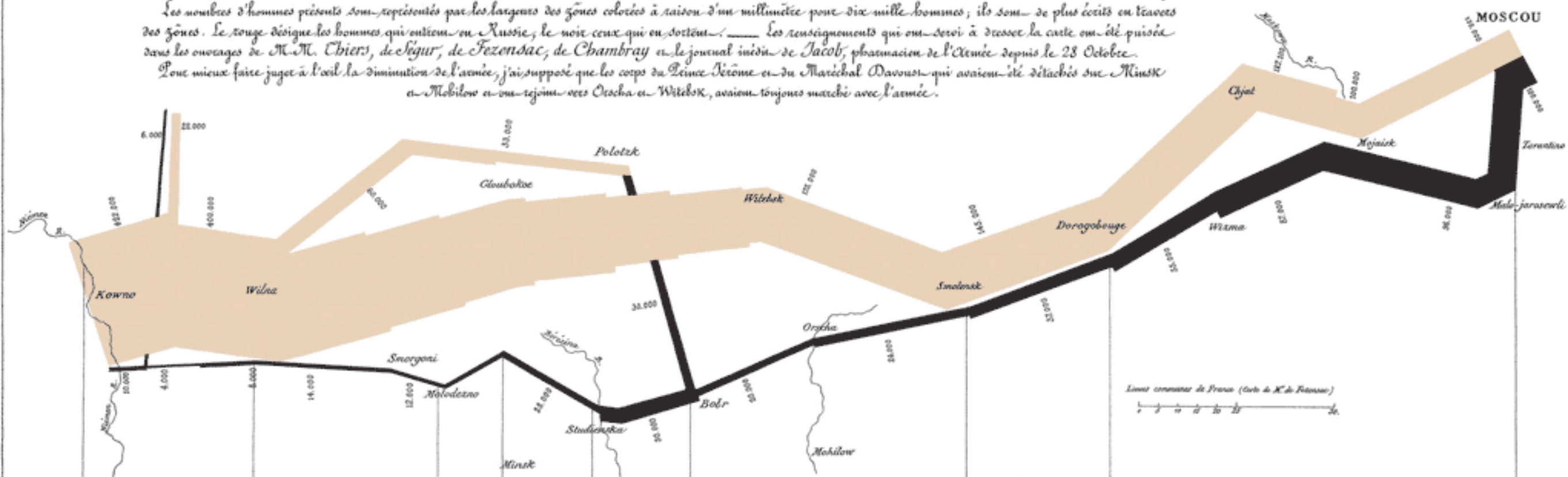


TABLEAU GRAPHIQUE de la température en degrés du thermomètre de Réaumur au dessous de zéro.

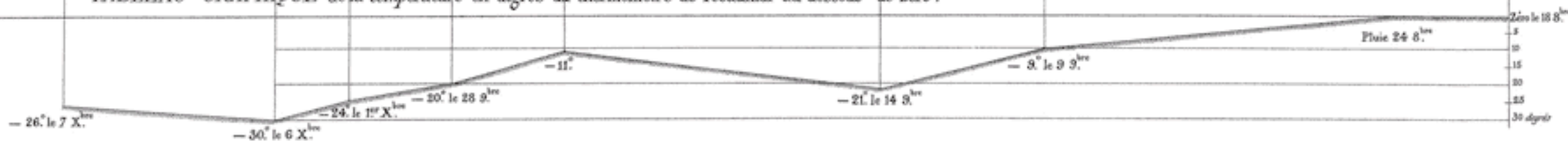
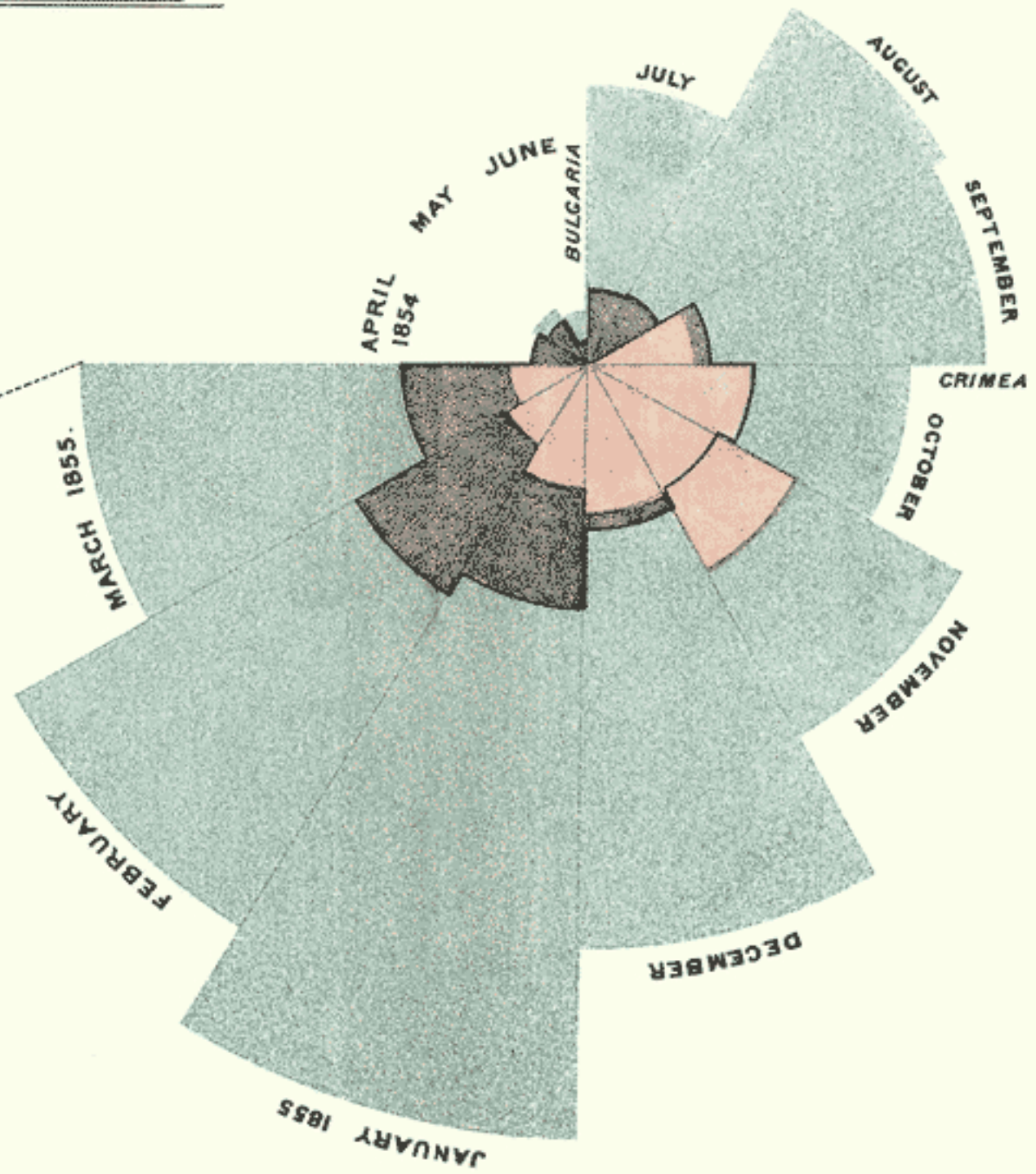
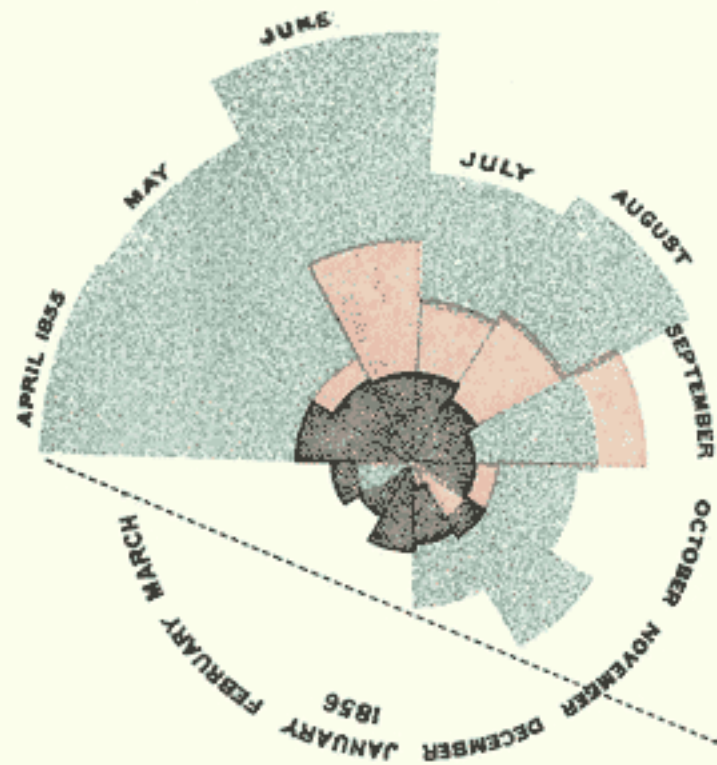


DIAGRAM OF THE CAUSES OF MORTALITY IN THE ARMY IN THE EAST.

1.
APRIL 1854 TO MARCH 1855.



2.
APRIL 1855 TO MARCH 1856.



The Areas of the blue, red, & black wedges are each measured from the centre as the common vertex.

The blue wedges measured from the centre of the circle represent area for area the deaths from Preventable or Mitigable Zymotic diseases; the red wedges measured from the centre the deaths from wounds; & the black wedges measured from the centre the deaths from all other causes.

The black line across the red triangle in Nov. 1854 marks the boundary of the deaths from all other causes during the month.

In October 1854, & April 1855, the black area coincides with the red; in January & February 1856, the blue coincides with the black.

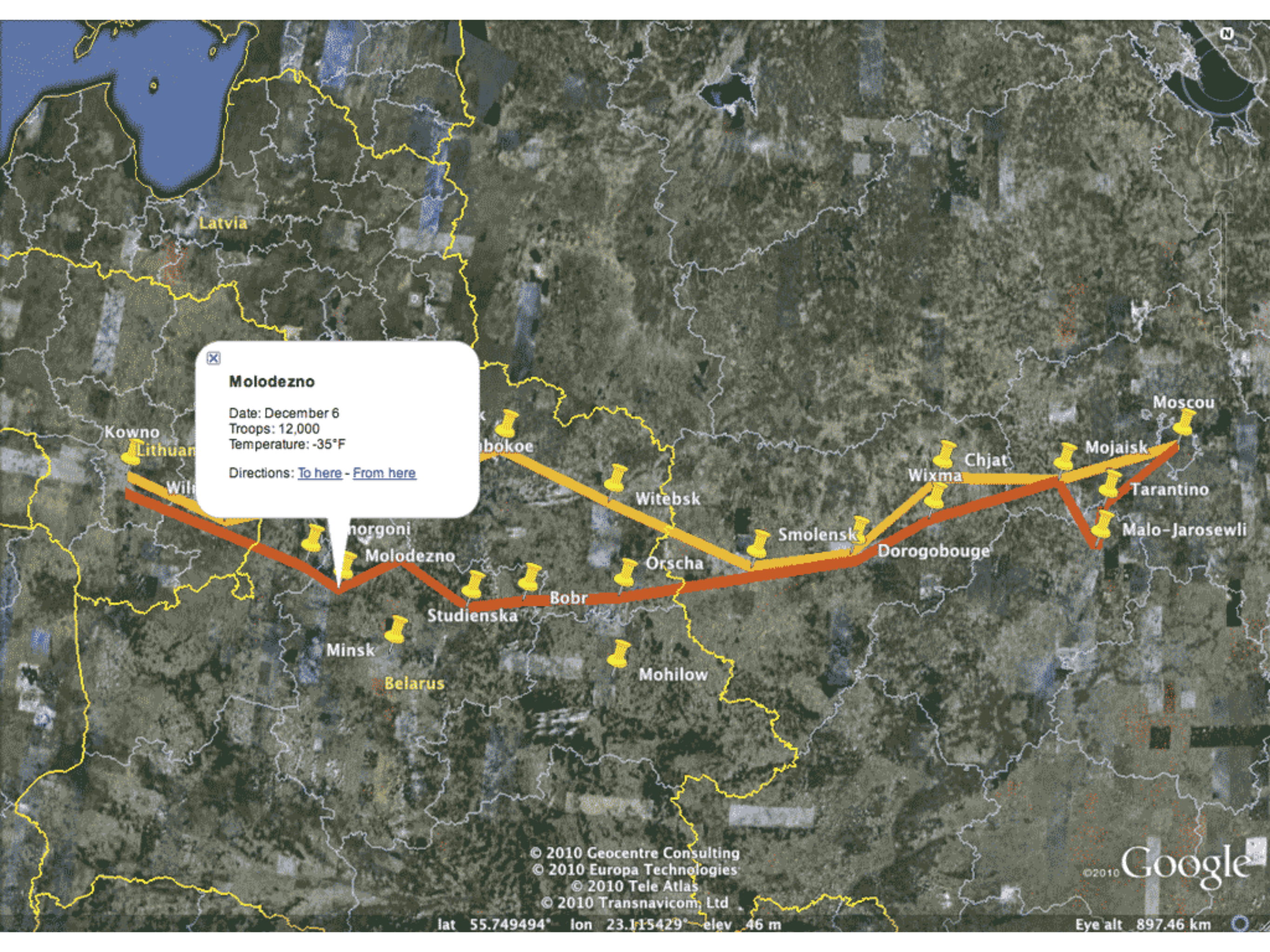
The entire areas may be compared by following the blue, the red & the black lines enclosing them.



Molodezno

Date: December 6
Troops: 12,000
Temperature: -35°F

Directions: [To here](#) - [From here](#)



© 2010 Geocentre Consulting
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© 2010 Tele Atlas
© 2010 Transnavicom Ltd

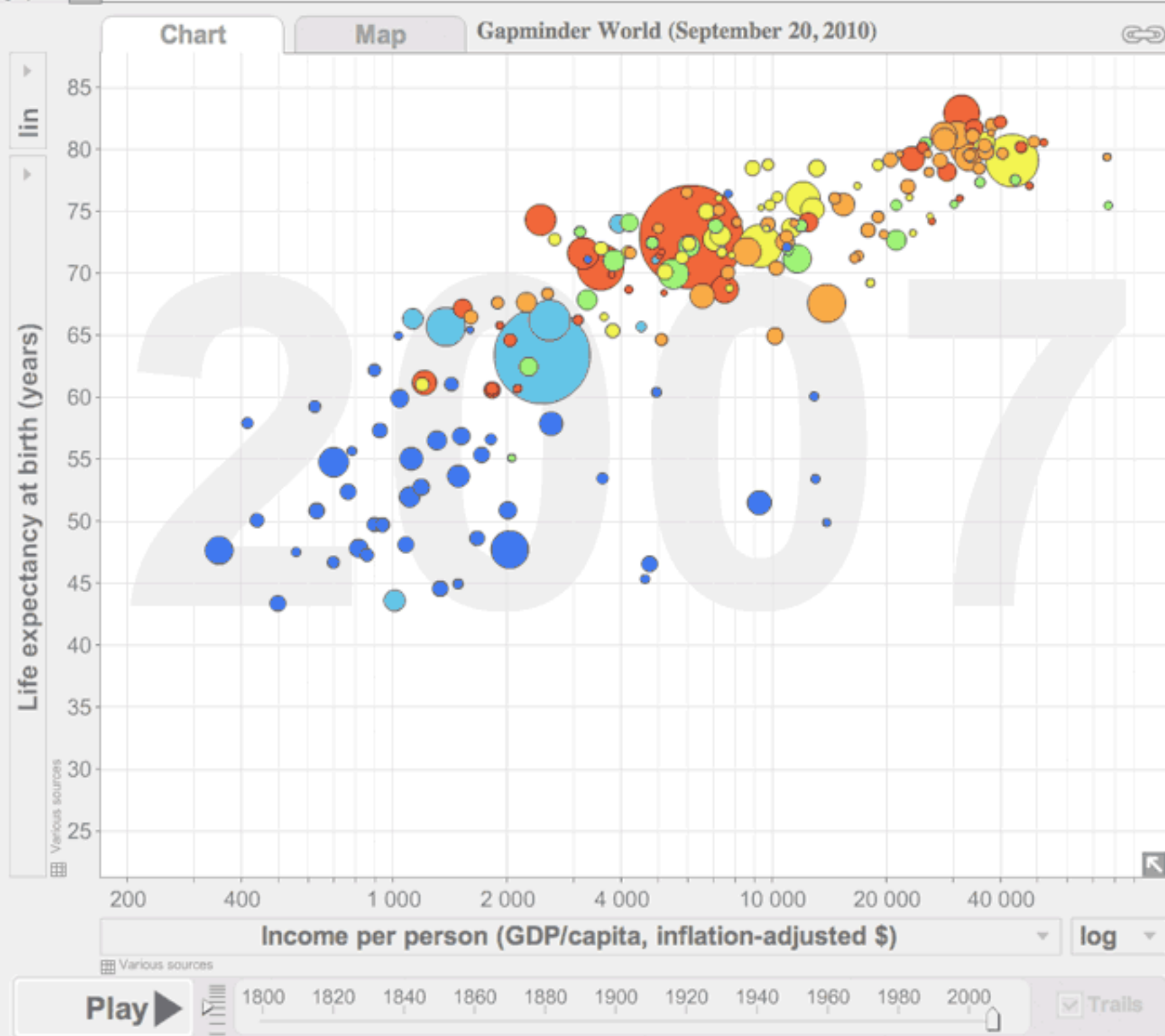
lat 55.749494° lon 23.115429° elev 46 m

©2010 Google

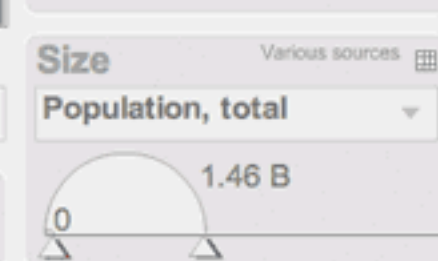
Eye alt 897.46 km



Basic Gapminder World graph* +



- Select
- ☐ Afghanistan
 - ☐ Albania
 - ☐ Algeria
 - ☐ Angola
 - ☐ Argentina
 - ☐ Armenia
 - ☐ Aruba
 - ☐ Australia
 - ☐ Austria
 - ☐ Azerbaijan
 - ☐ Bahamas
 - ☐ Bahrain
 - ☐ Bangladesh
- ☐ Deselect all

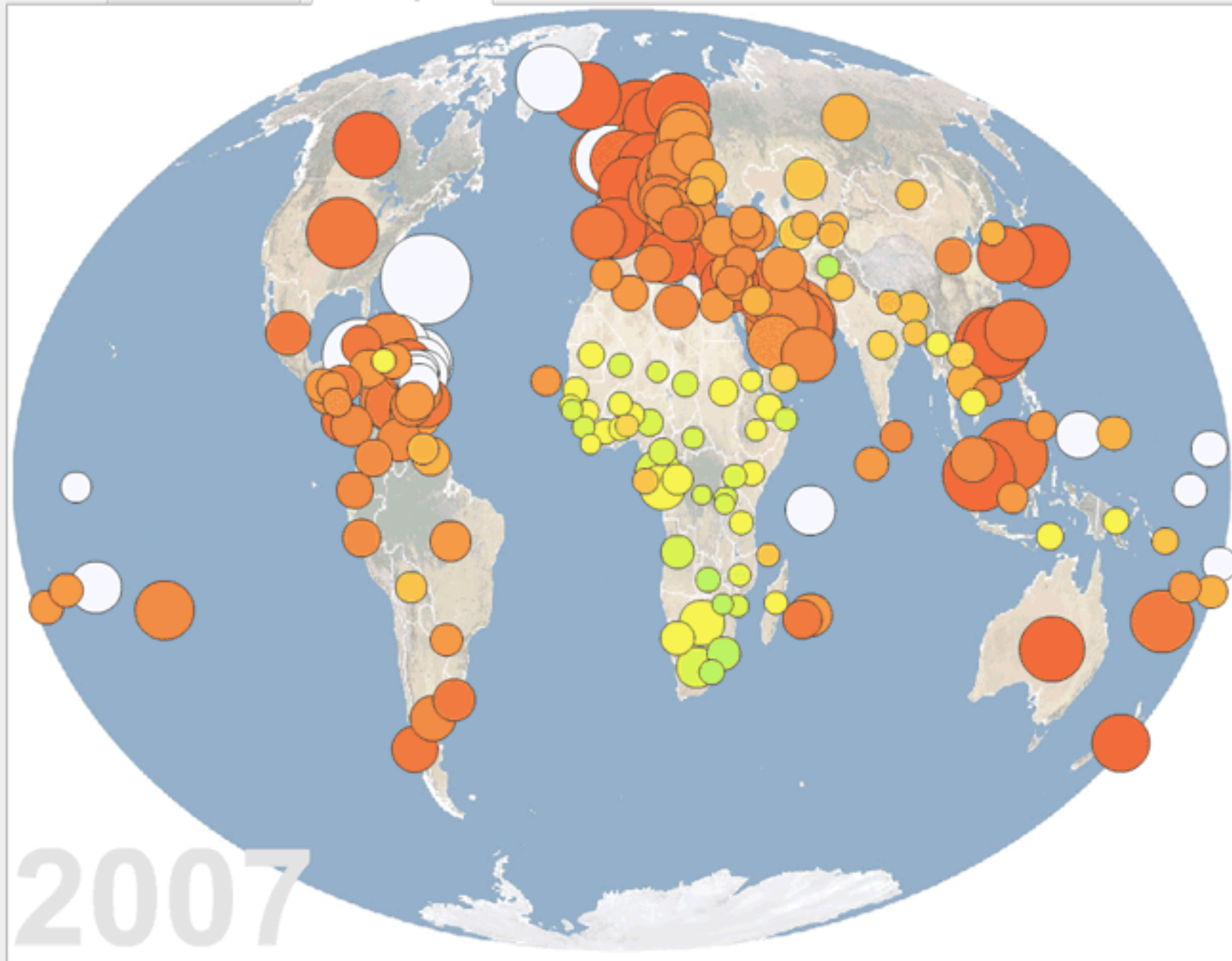


[New example] +

Chart

Map

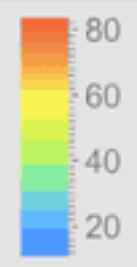
Gapminder World (September 20, 2010)



Color

Various sources

Life expectancy at bir...



Select

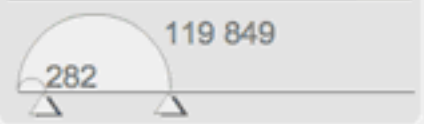
- ☐ Afghanistan
- ☐ Albania
- ☐ Algeria
- ☐ American Samoa
- ☐ Andorra
- ☐ Angola
- ☐ Anguilla
- ☐ Antigua and Barbu...
- ☐ Argentina
- ☐ Armenia
- ☐ Aruba
- ☐ Australia
- ☐ Austria

Deselect all

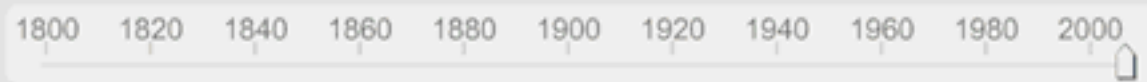
Size

Various sources

Income per person (...)



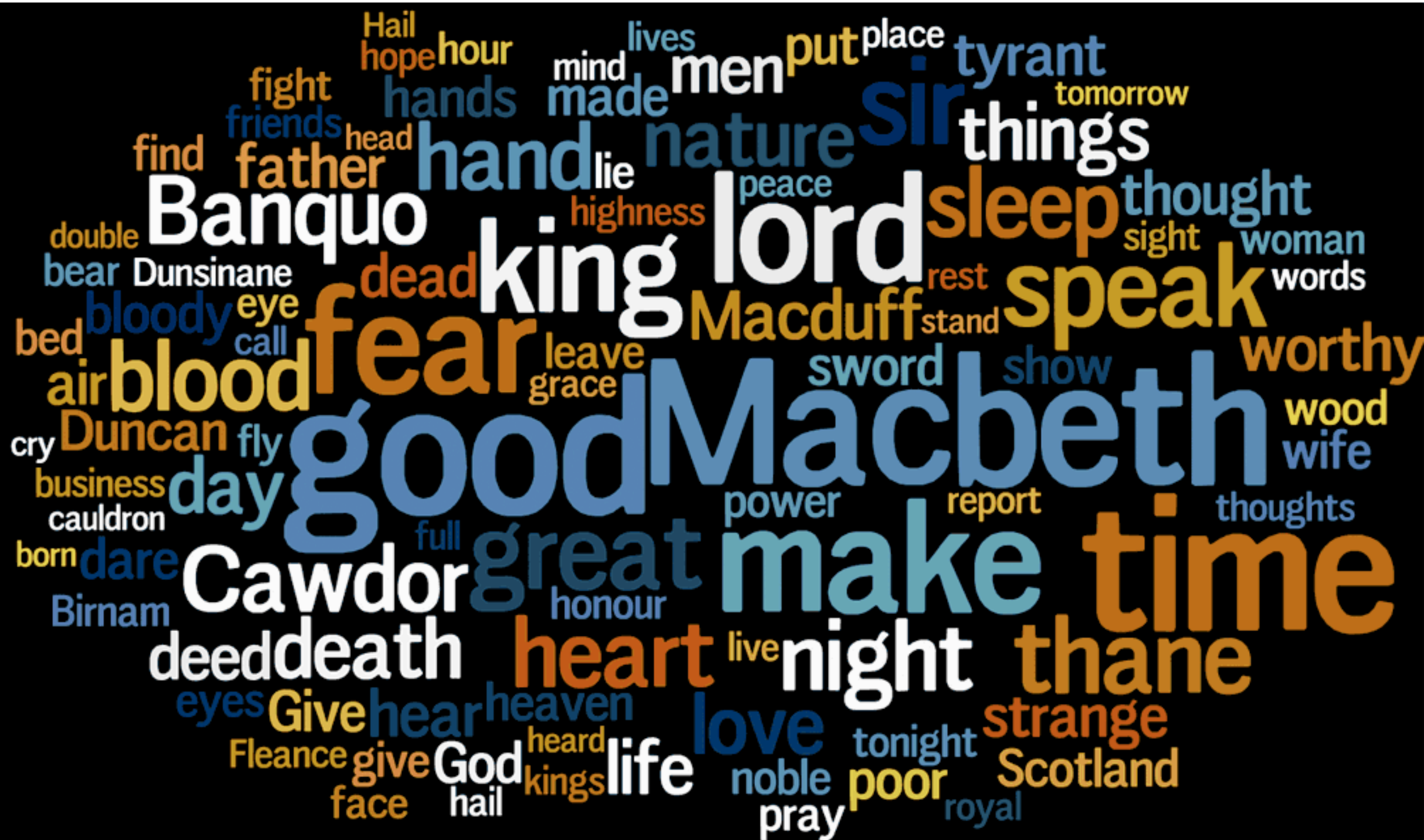
Play

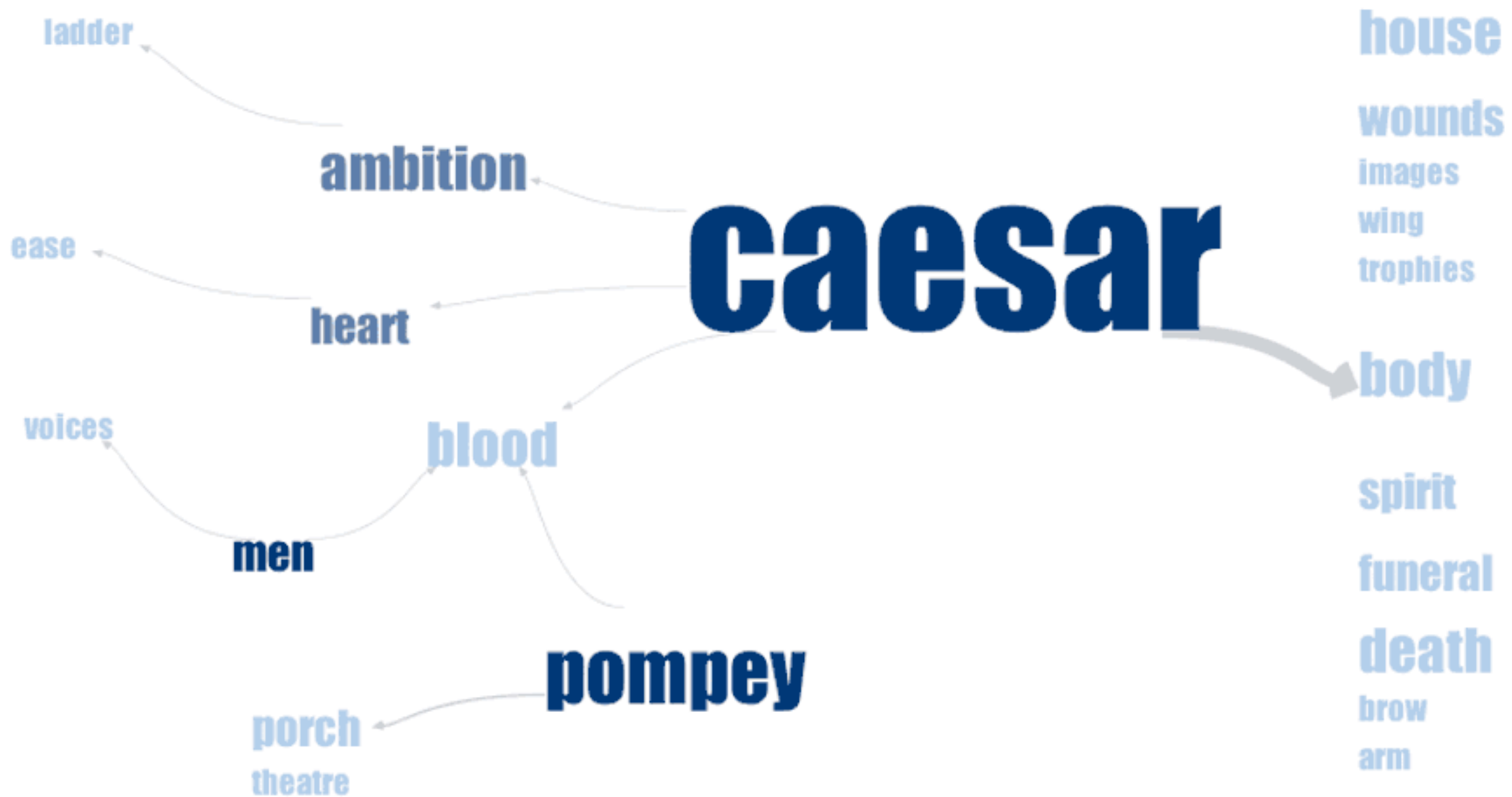


Trails

Terms of use

© Google 2008





Graph

Saturday
19/01/2008
22:00:00

Real time



Time 01:34:25
Date 19/11/2008

Visualization



22:00:00

Components

- ☐ Dócido de azufre
- ☐ Mando de carbono
- ☐ Dócido de nitrógeno
- ☐ Partículas en suspensión
- ☐ Ozono

Stations

- ☐ Recoletos
- ☐ Plaza del Carmen
- ☐ Plaza de España
- ☐ Gregorio Marañón
- ☐ Marques de Salamanca
- ☐ Escuelas Aguirre
- ☐ Luca de Tena
- ☐ Cuatro Caminos
- ☐ Avenida Ramon y Cajal
- ☐ Manuel Becerra
- ☐ Villetas
- ☐ Plaza de Fernández Ladreda
- ☐ General Ricardos
- ☐ Paseo de Extremadura
- ☐ Isaac Peral
- ☐ Paseo Pontones
- ☐ Casa de Campo
- ☐ Estación Red

In The Air

- ☐ 0.500 Data interpolation
- ☐ 0.200 Time interpolation
- ☐ 0.197 Zoom
- ☐ 0.844 Rotation X 24.810
- ☐ 0.154 Rotation Z
- ☐ 0.135 Zoom speed 66.400
- ☐ 0.000 Rotation X speed
- ☐ 0.000 Rotation Z speed
- ☐ 0.635 Grid density
- ☐ 0.250 Grid alpha
- ☐ 0.600 Map alpha
- ☐ 0.800 Stations alpha
- ☐ 1.000 Values alpha
- ☐ 0.962 Playback speed

Playback

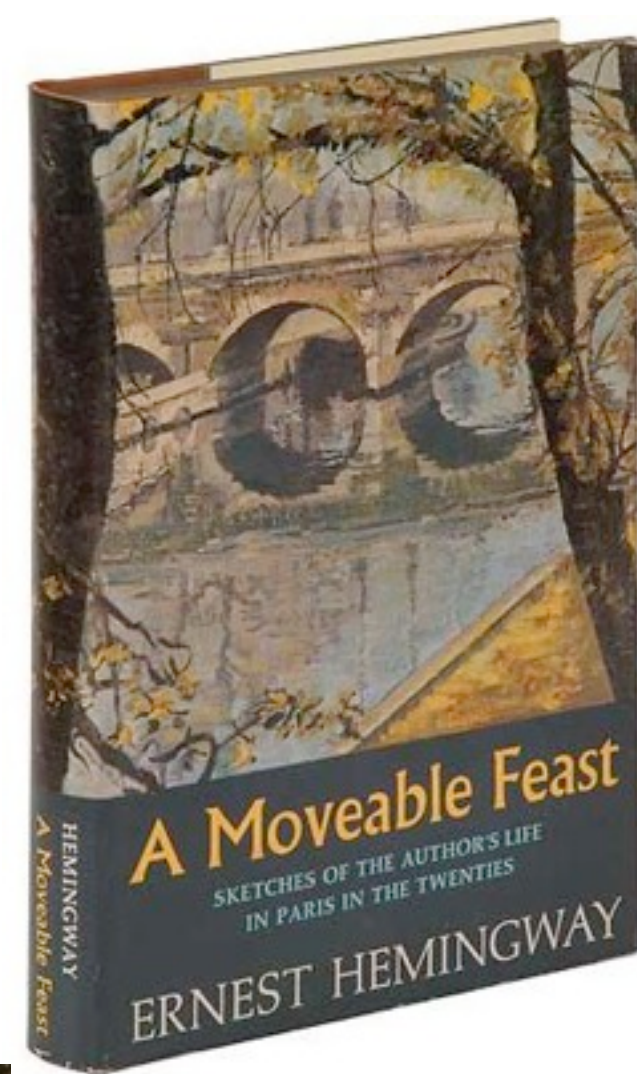
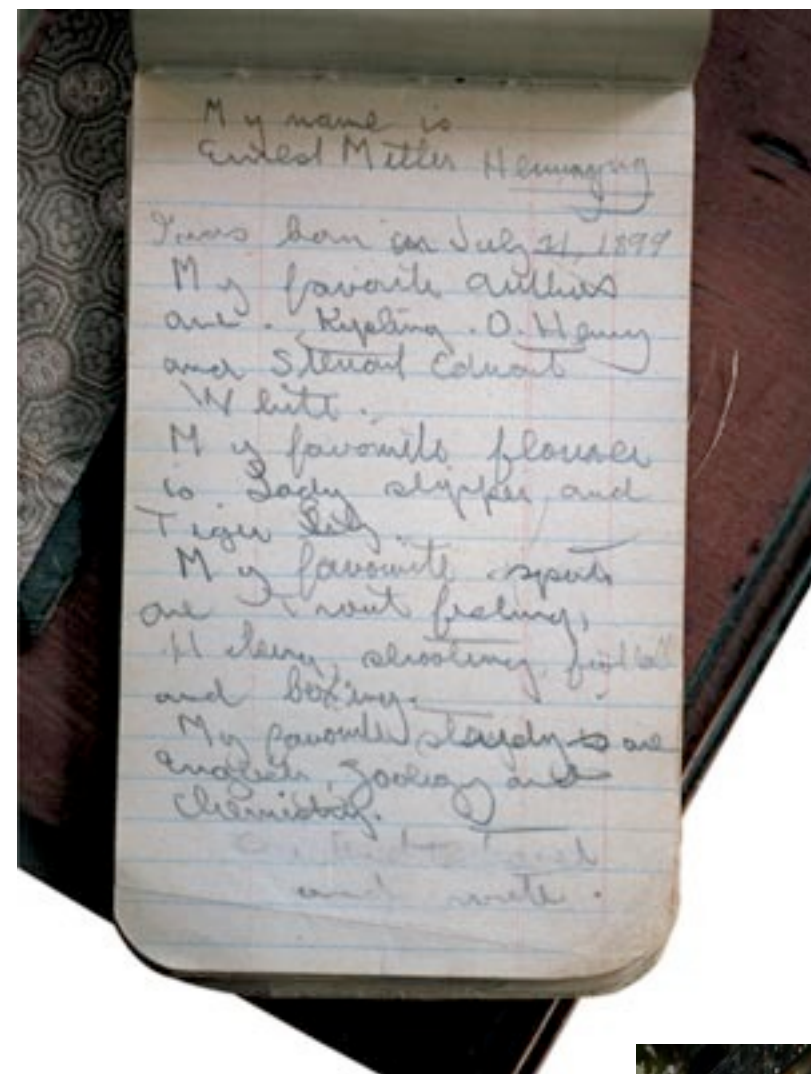
- ☐ Recalculate
- ☐ Plot stations
- ☐ Plot simple map
- ☐ Plot complex map
- ☐ Plot satellite photo
- ☐ Plot green areas
- ☐ Plot color roads
- ☐ Plot roads
- ☐ Plot grid
- ☐ Plot values
- ☐ Compass
- ☐ Clock
- ☐ Graph

cursorX 421.057
cursorY 580.573
DMX status 1/50 - DMX not found
Render time 247

Postscript: The Lively Sketchbook









- Ubiquity
- Intimacy
- Embeddedness





Resources

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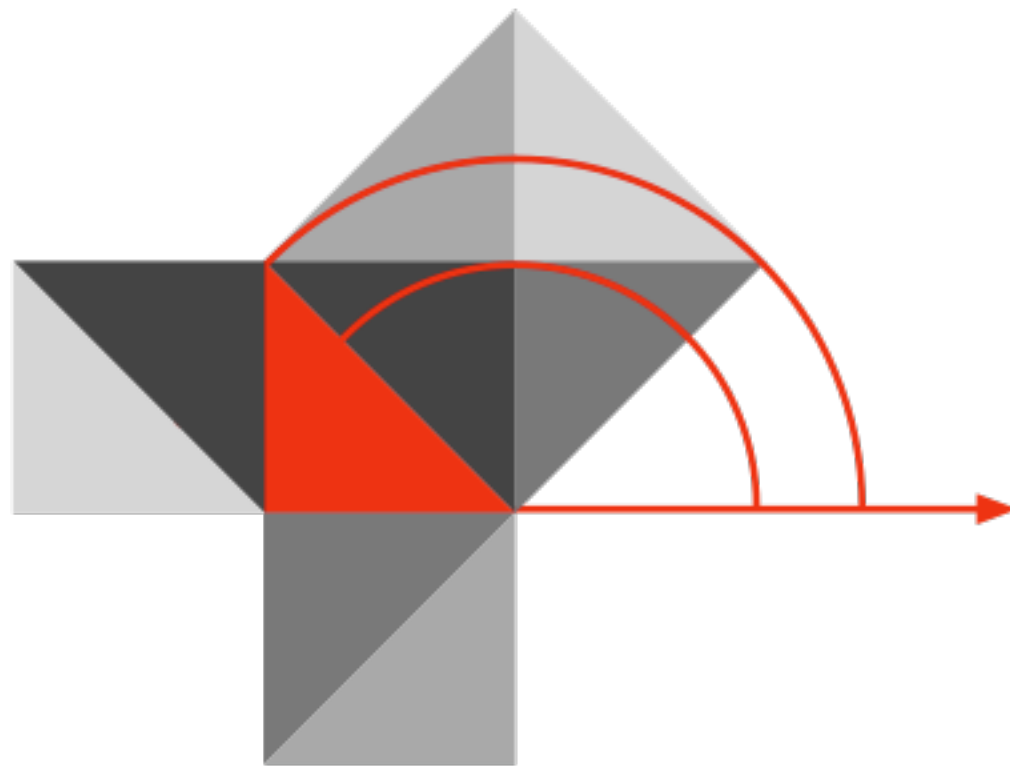
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Hippasus



<http://hippasus.com/rrpweblog/>
rubenrp@hippasus.com

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