

Data and Databases: Day 1

What is Data?

What is Data?

What is/are Data?

da·ta

/'dædə, 'dādə/

noun

noun: **data**

facts and statistics collected together for reference or analysis.

synonyms: facts, figures, **statistics**, details, particulars, specifics; [More](#)

- **COMPUTING**

the quantities, characters, or symbols on which operations are performed by a computer, being stored and transmitted in the form of electrical signals and recorded on magnetic, optical, or mechanical recording media.

- **PHILOSOPHY**

things known or assumed as facts, making the basis of reasoning or calculation.

Origin

LATIN



mid 17th century (as a term in philosophy): from Latin, plural of **datum**.

da·tum

/'dādəm, 'dadəm/

noun

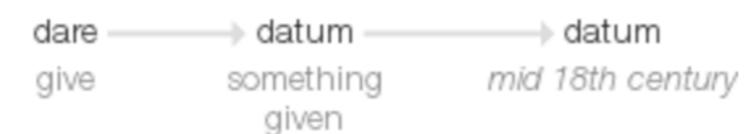
plural noun: **data**

1. a piece of information.
 - an assumption or premise from which inferences may be drawn.
2. a fixed starting point of a scale or operation.

Origin

LATIN

LATIN



mid 18th century: from Latin, literally 'something given,' neuter past participle of *dare* 'give.'

What is/are Data?

information	units of digital knowledge
facts	statistical raw materials / objective observations
numbers	quantities/symbols/characters to be processed
the given	that which is already known / knowledge
the captured	the knowledge that has been taken
the fixed	a starting point of a scale of operation
things	stuff, such and such, whatnot
measurements	a structured collection of measurements
truth	reality at the unseen atomic level (DNA)
lies	basis for false claims
magic	supercharged language particles
the meaningless	sequence devoid of context
a group/set	system of categorized morsels
the archive	an organized series of texts

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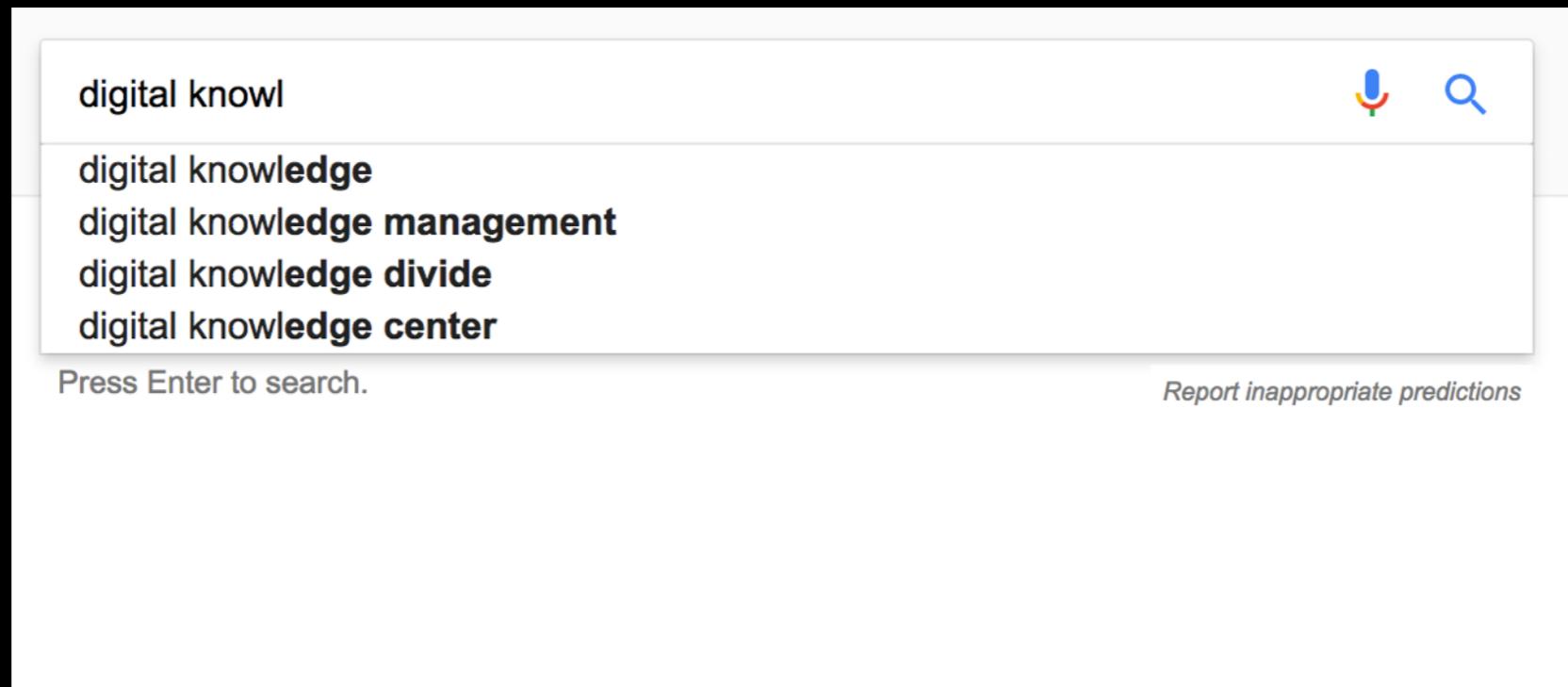
What is/are Data?

information units of digital knowledge

measurements a structured series of measurements

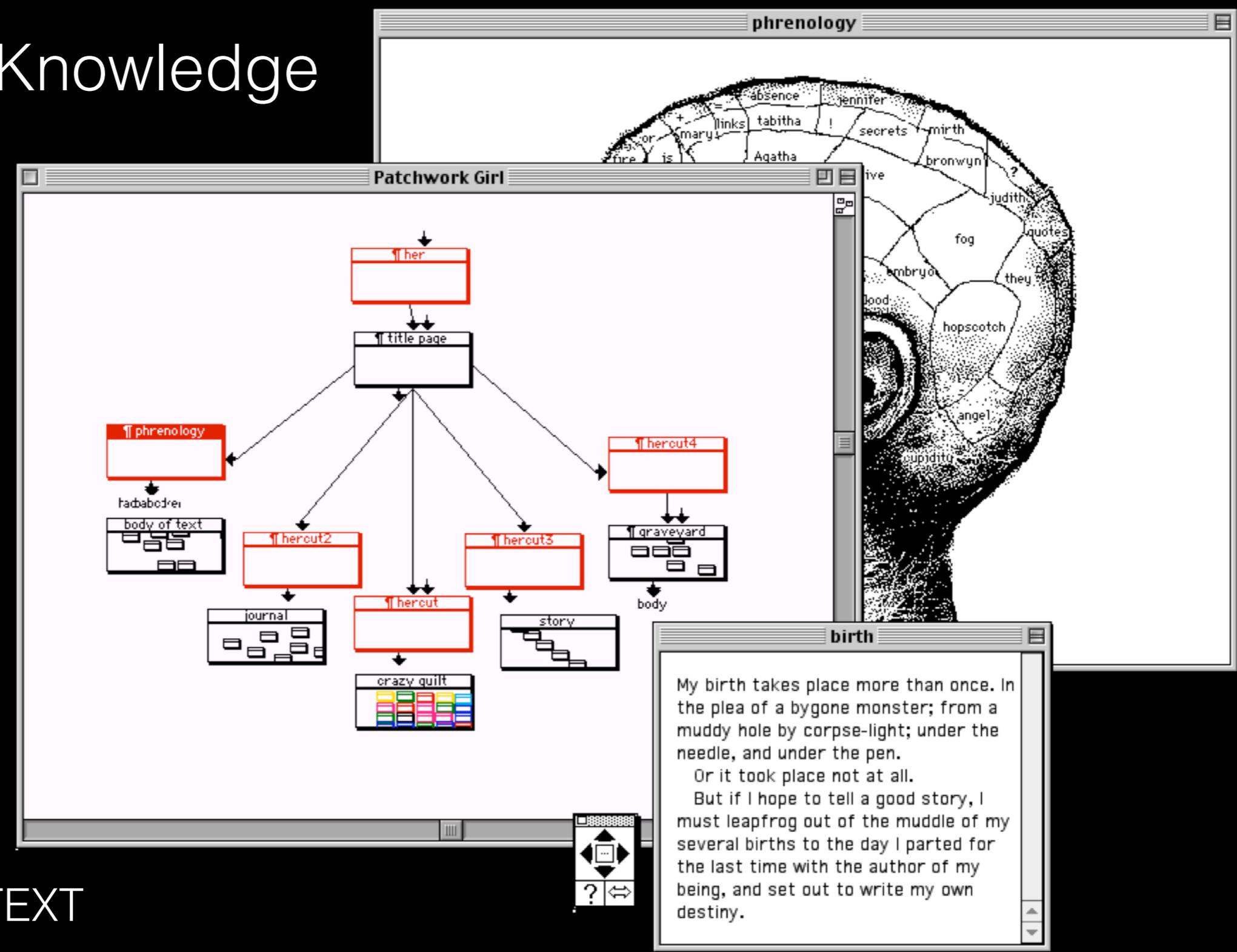
What is Digital Knowledge?

Digital Knowledge



THE QUERY

Digital Knowledge



HYPertext

Shelley Jackson's Patchwork Girl 1995

Digital Knowledge

☰ 🔎 World U.S. Politics N.Y. Business Opinion Tech Science Health Sports Arts Style Food Travel Magazine T Magazine Real Estate

THE DAILY 360



▶ 1:39
America's First Offshore Wind Farm

Chang W. Lee/The New York Times.
Technology by Samsung.

More in
The Daily 360 »

MORE NEWS

- In Montana Race, a Republican Is Following the Trump Playbook 8:53 AM ET
- North Korea Missile Test Was Short on Distance but Long on Data, South Says 8:16 AM ET
- Bangkok Hospital Bombing Wounds at Least 20 on Coup Anniversary 5:42 AM ET
- Liverpool Edges Arsenal for Champions League Berth

No, Google's Not a Bird: Bringing Internet to Rural India

By ELLEN BARRY

A recent convert to the wonders of the web is trying to persuade his neighbors in a remote village that "the whole world rests inside the mobile."

■ 9 Comments



Jury Selection Begins for Bill Cosby Trial

By GRAHAM BOWLEY 9:41 AM ET

A larger-than-normal jury pool has been assembled, and a questionnaire went out to help narrow down the number of jury candidates.



MEDIATOR

Smaller Rivals See Chance to Challenge Fox News

By JIM RUTENBERG

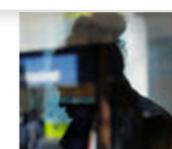
Competitors on the right see an industry leader battered by personnel losses, and an opportunity to turbocharge growth by picking up Bill O'Reilly, the cast-aside anchor.



Uber's Driverless Cars Wear Out Welcome in Pittsburgh

By CECILIA KANG

For victims of revenge porn, combating such attacks can take years and prove costly. But there is help. Here's some advice on how to fight back.



1d Not much is known about the patients who died at the state asylum in Mississippi from 1855 until it closed in 1935. But a group of researchers is trying to change that.



1d "He's on our money. He's on our IDs. He's in our heads. He's everywhere." Angola's president has ruled the country for nearly 38 years, but will he relinquish power?

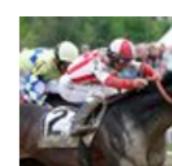


1d Tomoya Hosoda's business card bears a unique description: "born a woman." Mr. Hosoda is the first openly transgender man elected to public office in Japan.



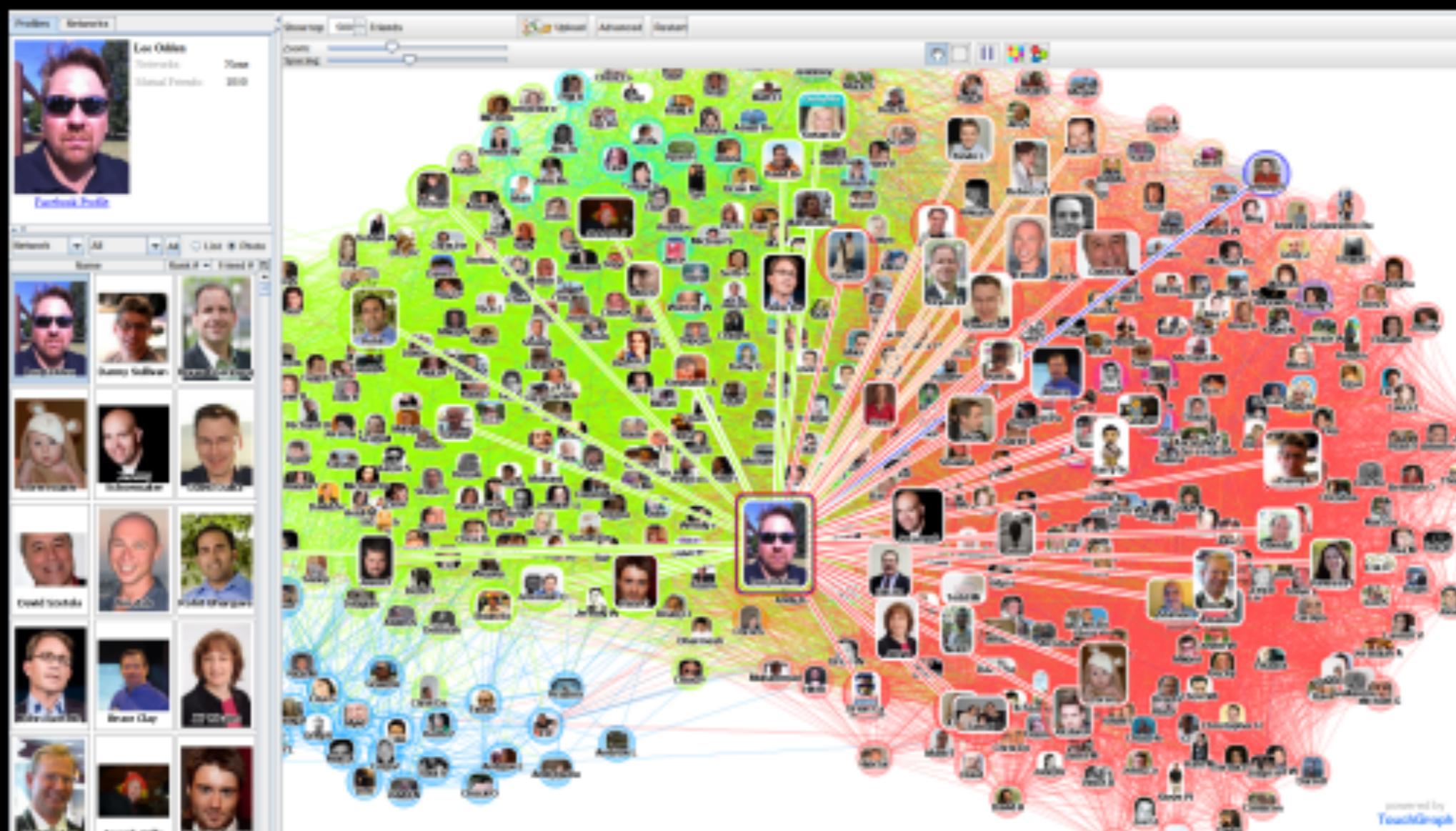
May 20, 2017

2d Cloud Computing took victory in the Preakness Stakes while Always Dreaming, a Triple Crown hopeful, faded after battling for the lead much of the way.



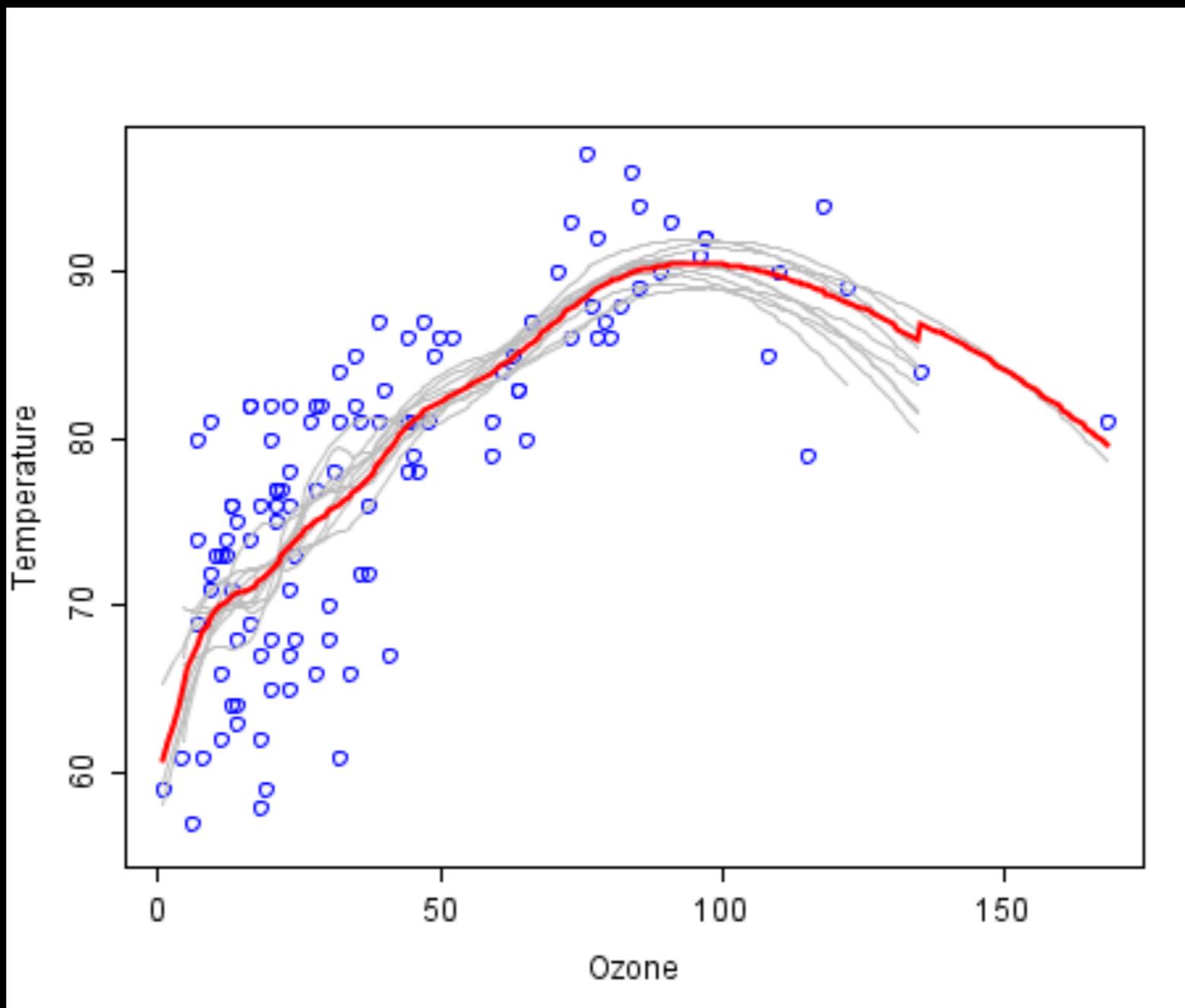
HYPertext
nytimes/World Wide Web

Digital Knowledge



NETWORK
Touchgraph Facebook Browser

Digital Knowledge



NUMERICAL/STATISTICAL
Machine Learning Best Lines of Fit

Digital Knowledge

NUMERICAL/STRUCTURAL/MNEMONIC

<https://poemshape.wordpress.com/category/poetry-by/keats-john/>

Bright Star, Would I Were Stedfast

By John Keats

Bright star, | would I | were sted| fast as | thou art---

A

Not in | lone splen| dor hung | aloft | the night,

B

And watch | ing, with | eter| nal lids | apart,

A

Like na | ture's pa| tient, sleep | less Er| emite,

B

The mo | ving wa | ters at | their priest| like task

C

Of pure | ablú | tion round | earth's hu | man shores,

D

Or ga | zing on | the new | soft-fal | len mask

C

Of snow | upon | the moun| tains and | the moors;

D

No---yet | still sted| fast, still | unchange| able,

E

Pillow'd | upon | my fair | love's ripe| ning breast,

F

To feel | for e| ver its | soft swell | and fall,

E

Awake | for e| ver in | a sweet | unrest,

F

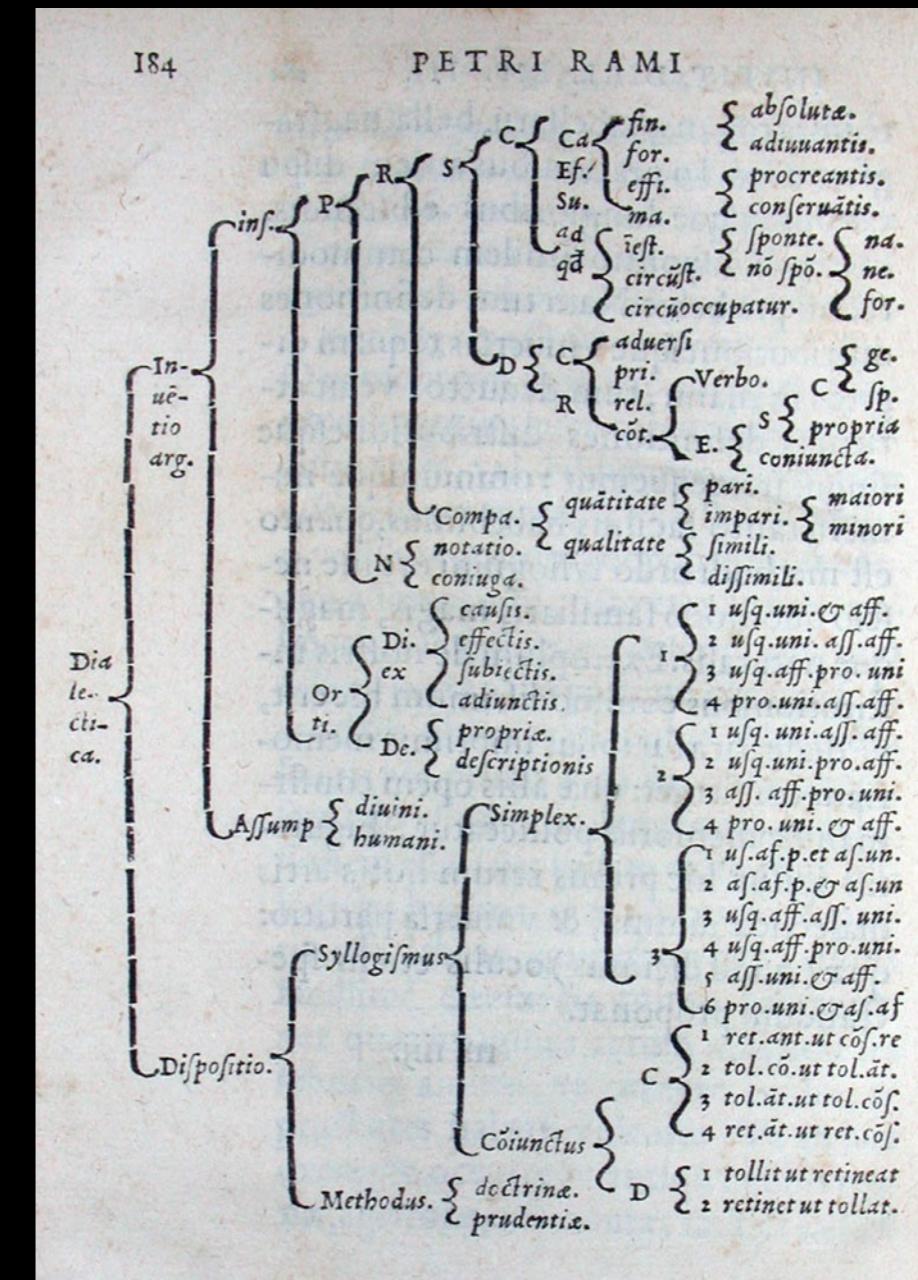
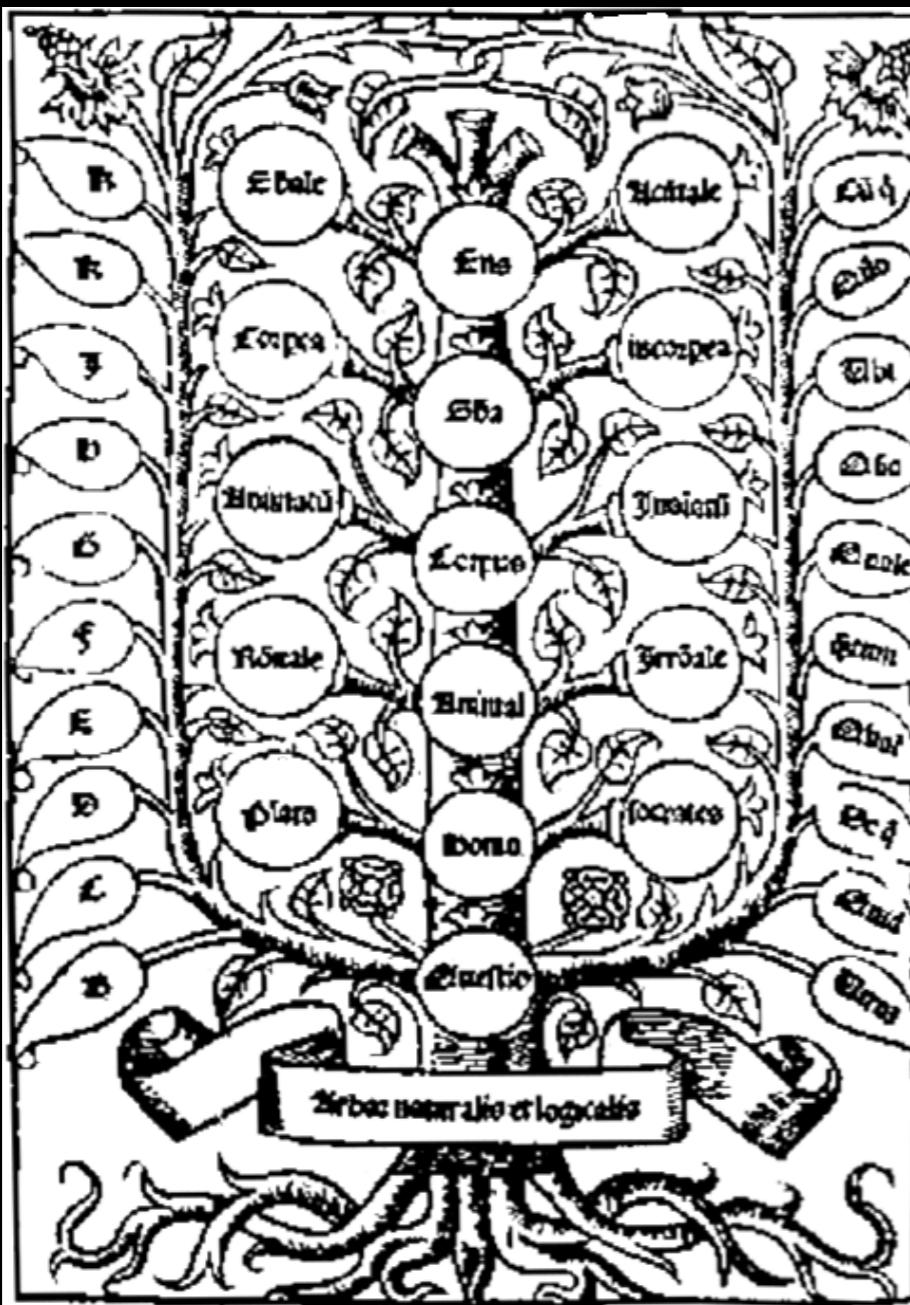
Still, still | to hear | her ten| der-ta| ken breath,

G

And so | live e| ver---or | else swoon | in death.

G

Digital Knowledge: Trees of Knowledge

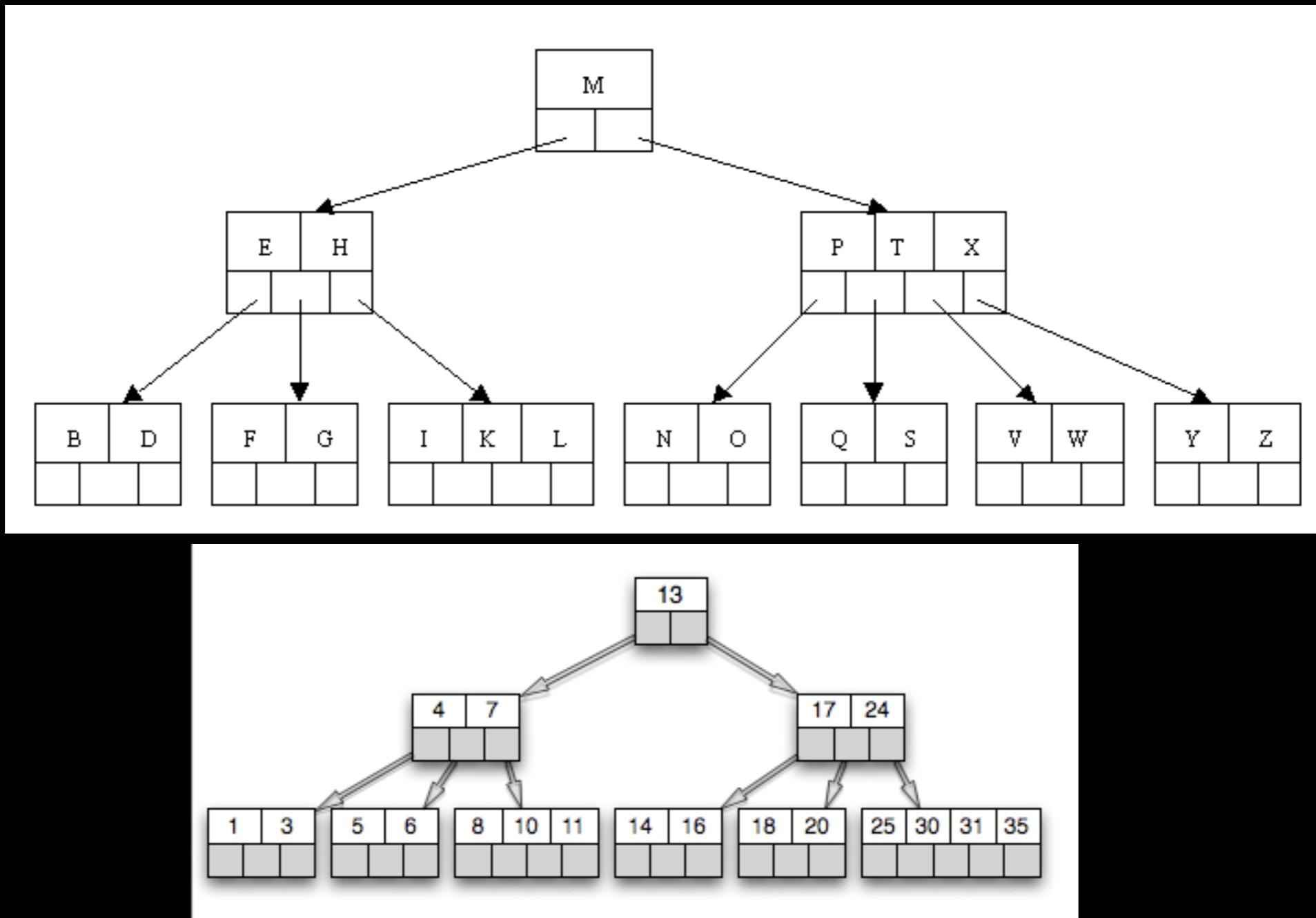


NUMERICAL/STRUCTURAL/MNEMONIC

Petrus Ramus, classification structure from *Dialectique*, 1555

Ramon Llull, Arbor naturalis et logicalis, Tree of nature and logic (Tree of logical relations) containig a version of the tree of Porphyry (center) 1305

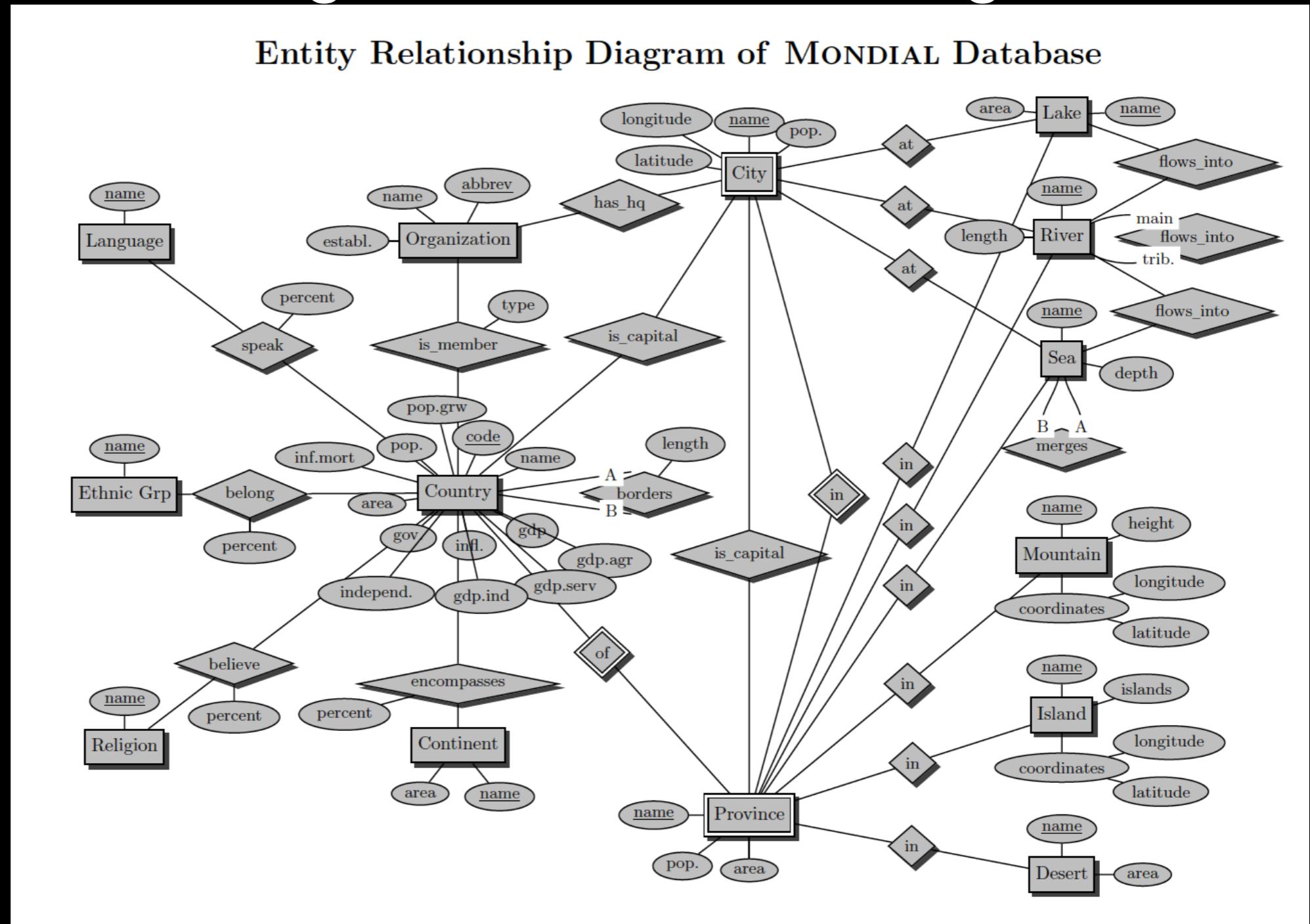
Digital Knowledge: Trees of Knowledge



NUMERICAL/STRUCTURAL/MEMORY STORAGE
B-TREES!

Digital Knowledge: Trees of Knowledge

Entity Relationship Diagram of MONDIAL Database



NETWORK DIAGRAM: THE MONDIAL DATABASE

(For Saturday)

Data: A Structured Series of Measurements



THE ARCHIVE —> TABULAR DATA

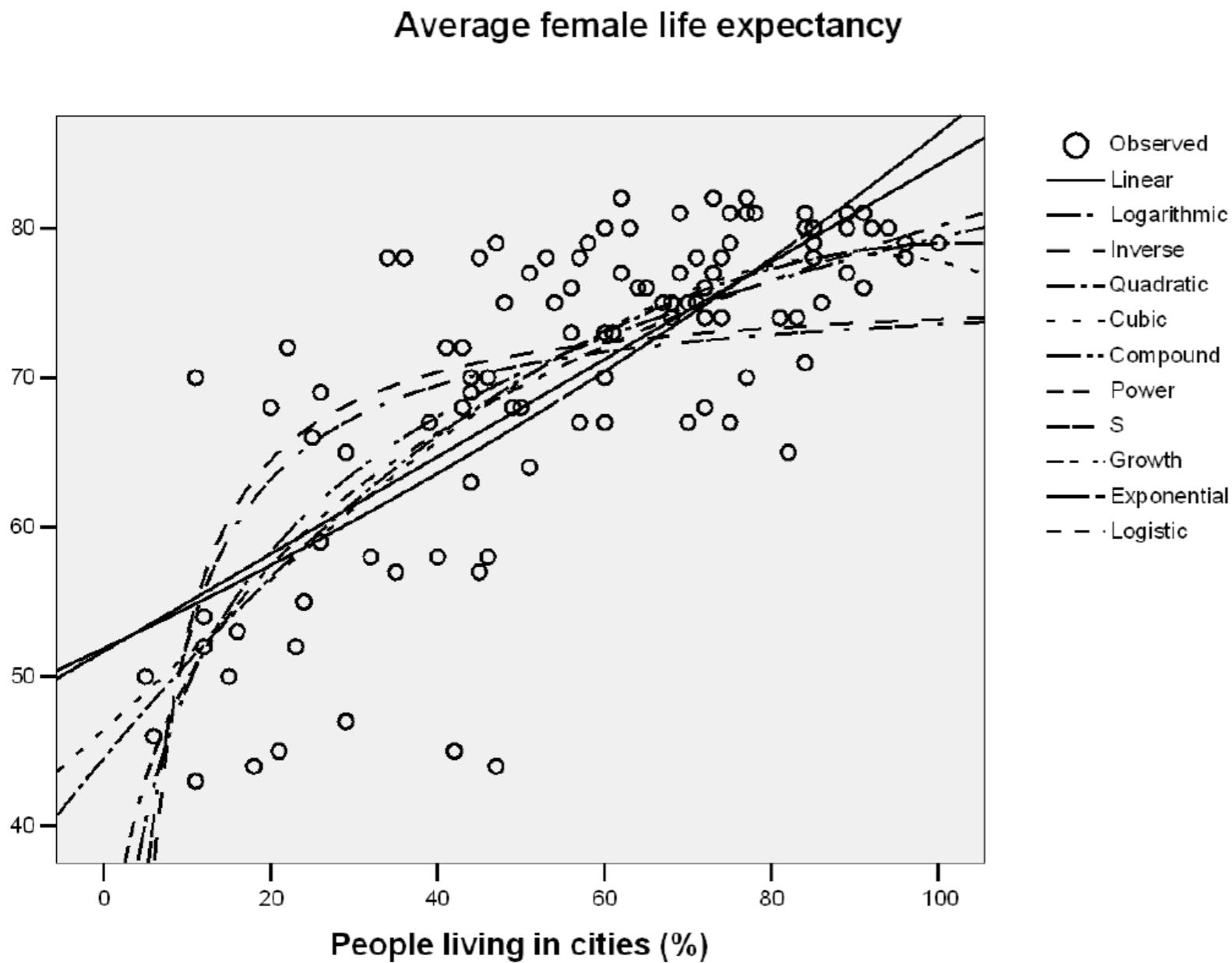
Human development index (HDI)

HDI Rank	Country	1980	1985	1990	1995	2000	2005	2010	2011	2012
171	Afghanistan	0.228	0.273	0.297	0.321	0.334	0.399	0.448	0.456	0.463
85	Albania	0.625	0.623	0.624	0.619	0.656	0.695	0.722	0.728	0.729
83	Algeria			0.574	0.596	0.640	0.687	0.725	0.730	0.732
34	Andorra							0.823	0.821	0.844
149	Angola					0.390	0.449	0.509	0.521	0.524
58	Antigua and Barbuda							0.782	0.778	0.781
40	Argentina	0.675	0.694	0.705	0.731	0.762	0.775	0.811	0.818	0.831
85	Armenia			0.632	0.605	0.648	0.695	0.721	0.723	0.728
2	Australia			0.865	0.882	0.898	0.912	0.927	0.930	0.932
23	Austria	0.747	0.764	0.794	0.815	0.836	0.853	0.879	0.881	0.884
78	Azerbaijan				0.609	0.640	0.688	0.741	0.742	0.745
55	Bahamas					0.778	0.780	0.774	0.778	0.783
45	Bahrain	0.679	0.727	0.746	0.775	0.794	0.816	0.819	0.817	0.819
142	Bangladesh	0.338	0.356	0.386	0.424	0.468	0.505	0.546	0.559	0.563
57	Barbados	0.670	0.700	0.716	0.731	0.753	0.765	0.780	0.786	0.793
50	Belarus					0.683	0.723	0.786	0.793	0.796
21	Belgium	0.755	0.774	0.806	0.851	0.874	0.866	0.883	0.886	0.889
101	Belize			0.644	0.664	0.683	0.701	0.710	0.711	0.716
166	Benin	0.286	0.327	0.344	0.368	0.392	0.433	0.468	0.473	0.475

Left: illustration of Borges, *The Library of Babel*

Right: UNDP Human Development data

Measurements: Quantitative Data



The Domain of Statistics:

Data Types:

Numerical, Ordinal, Nominal
("numerical" a.k.a "continuous" or
"interval/ratio")

Approaches:

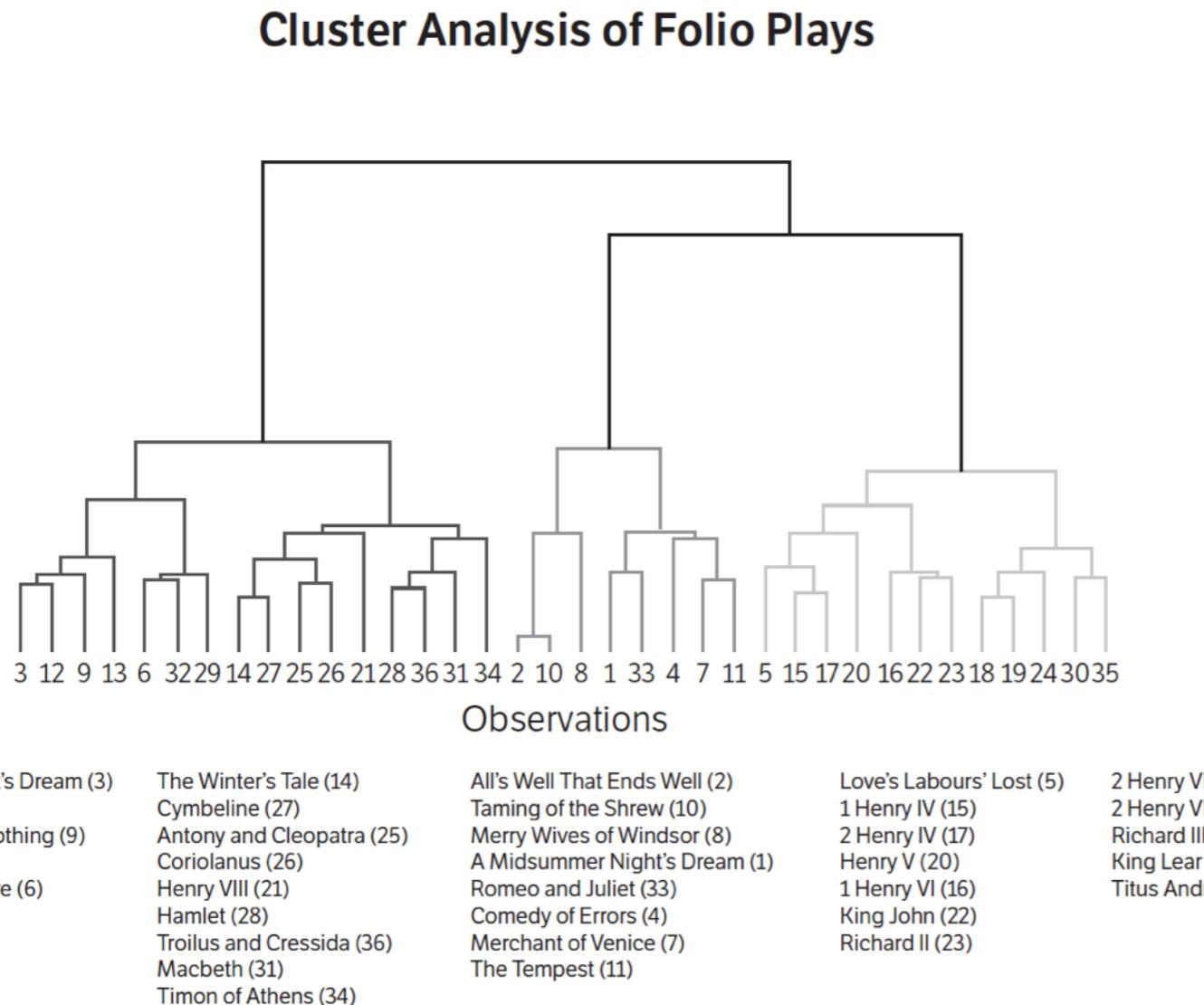
Regression, standard error,
p-value: statistical significance

Challenges: Dimensionality;

Data Quality: Garbage-in-garbage-out);

Data size: Big Data breaks
statistical models

Measurements: Qualitative Data



Data Types:
Texts, Video, Photographs,
Interviews, Observations...

Approaches:
Reading, Taxonomizing
Archiving, Distributing,
Vizualizing

Challenges:
Operationalizing: building
features/variables

From Franco Moretti et all, Stanford Literary Lab
Pamphlet, *Quantitative Formalism: an Experiment*

Measurements: **Qualitative** Data

What are categories for measuring language/ speech?

Measurements: **Qualitative** Data

What are categories for measuring language/ speech?

Levels: Letter, word, phrase, sentence, paragraph, chapter, section, book, genre/author.

Typologies: Sound, part of speech, word type, function words, color, mood, emotion.

Aggregate categories like
Indexes: happiness, sadness, alienation.

Imagining Data

Data as measurements

Data collection and architecture
Data query
Statistical modeling
Mobilizing computationally
Mobilizing visually

Data as units of digital knowledge

Taxonomy and ontology
Research and interpretation
Methodologies
Dissemination and audience
Knowledge production

Imagining Data: As Language

Data as measurements

Data collection and architecture
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Statistical modeling
Mobilizing computationally
Mobilizing visually

Data as units of digital knowledge

Taxonomy and ontology
Research and interpretation
Methodologies
Dissemination and audience
Knowledge production

Computationally assisted reading and research

Graphical / interactive interpretation and presentation of information/ storytelling

Question: how can data and computational methods deepen, expand, and/or extend the reach of my research?

The Process: Measurements —> Meaning

Five Step Process

1. Reading / Research
2. Organizing / Taxonomies
3. Building / Data Structures
4. Searching / Aggregating
5. Displaying / Generating Knowledge

Meaning is built as each stage — different kinds of meaning...

The Process: Measurements —> Meaning

Five Step Process: **Interpretive Process**

1. Reading / Research
2. Organizing / Taxonomies
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Meaning is built as each stage — different kinds of meaning...

Measurements → Meaning

1. Reading / Research: Knowledge base

Folio image of Shakespeare's works.

"Pericles; and the "Two Nobles Kinsmen," should be thrust in, the last wrote by him and Fletcher, if he wrote not the greater part of that play he never wrote a line."

A Catalogue of all the Comedies,
Histories, and Tragedies contained
in this Booke.

1. T He Tempest. Verona.	The life of King Henry the 5. <i>Fol. 69</i>
2. The two Gentlemen of	The first part of K. Heny the 6. <i>96</i>
3. The Merry Wives of Windsor.	The 2 part of K. Henry the 6. <i>120</i>
4. Measure for Measure.	The 3 part of K. Henry the 6. <i>147</i>
5. The Comedy of Errors.	The Tragedie of Richard the 3. <i>173</i>
6. Much adoe about Nothing.	The famous history of Henry 8. <i>205</i>
Tragedies.	
7. Loves Labour's lost.	Troylus and Cressida. <i>Fol. 2</i>
8. Midsummers nights Dreame.	The Tragedy of Coriolanus. <i>30</i>
9. The Merchant of Venice.	Titus Andronicus. <i>60</i>
10. As you like it.	Romeo and Juliet. <i>82</i>
11. The taming of the Shrew.	Timon of Athens. <i>107</i>
12. All's well that ends well.	The Tragedy of Julius Caesar. <i>129</i>
13. Twelfe night, or what you will.	The Tragedy of Macbeth. <i>151</i>
14. The Winters Tale.	The Tragedy of Hamlet. <i>272</i>
Histories.	
15. The life and death of K. John.	The Tragedy of King Lear. <i>303</i>
16. The life & death of K. R. the 2.	The Moore of Venice. <i>330</i>
17. The life and death of K. H. 4.	Anthony and Cleopatra. <i>360</i>
18. The second part of K. H. the 4.	The Tragedy of Cymbeline. <i>389</i>

THE TEMPEST.

Actus Primus. Scena Prima.

A tempestuous noise of Thunder and Lightning heard : Enter a Ship-master, and a Botefswaine.

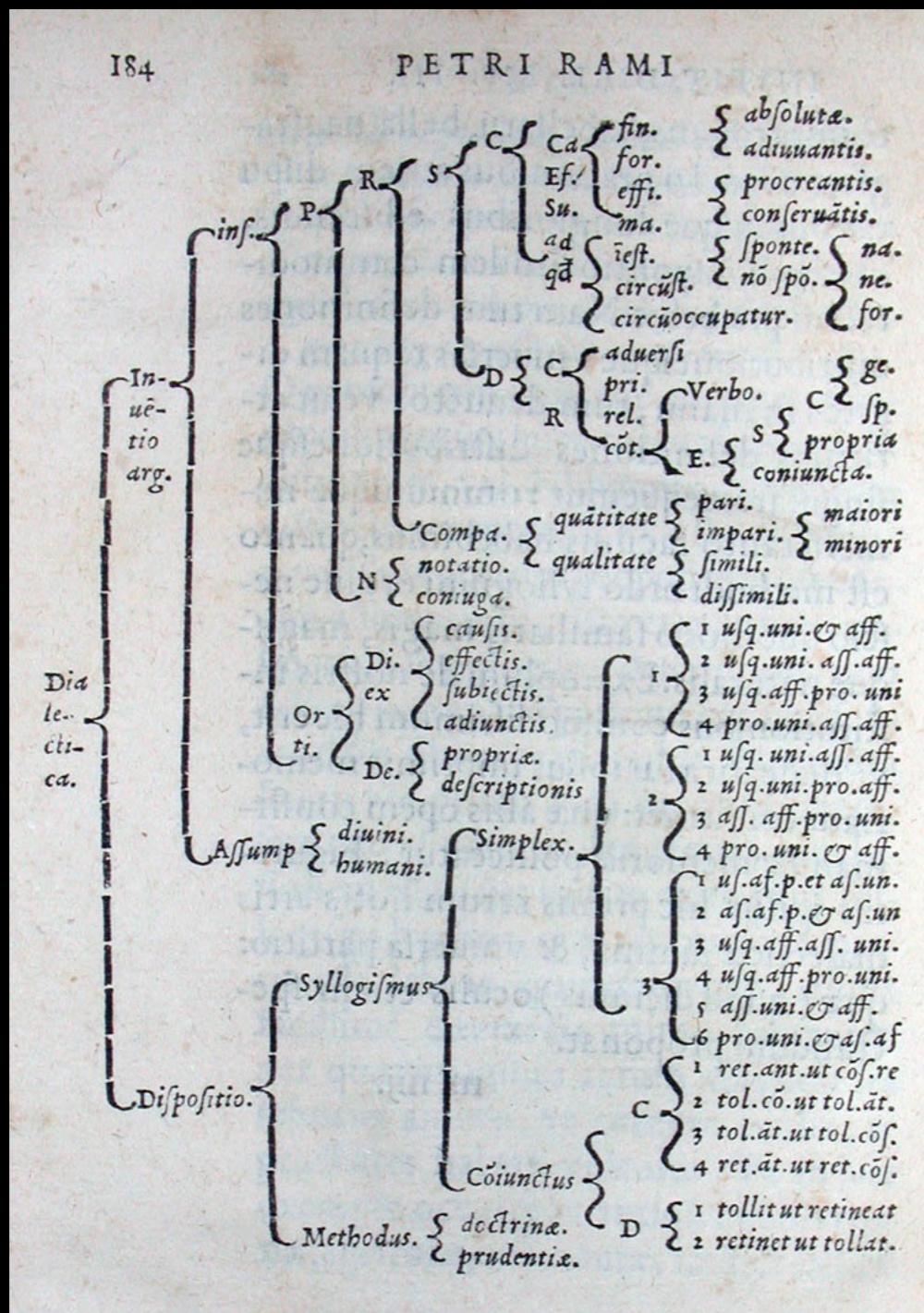
Master. Ote-swaine.
Botef. Heere Master : What cheere?
Master. Good : Speake to th'Mariners : fall too't, yarely, or we run our selves a ground,bestirre,bestirre.
Exit.
Enter Mariners.
Botef. Heigh my hearts,cheerly, cheerly my hearts : yare,yare : Take in the toppe-sale : Tend to th'Masters whistle : Blow till thou burst thy winde, if roome e-nough.
Enter Alonso,Sebastien, Antonio,Ferdinande, Gonzalo, and o:thers.
Alon. Good Botefswaine have care : wher's the Master ? Play the men.
Botef. I pray now keepe below.
Ant. Where is the Master,Boion ?
Botef. Do you not heare him ? you marre our labour, Keep your Cabins : you do afflit the storne.
Gonz. Nay,good be patient.
Botef. When the Sea is : hence,what cares these roa-ters for the name of King? to Cabine ; silence : trouble us not.
Gon. Good yet remember whom thou haft aboard.
Botef. None that I more love then my selfe. You are a Counsellor, if you can com mand these Elements to silence, and worke the peace of the present,wee will not hand a rope more, use your authoritie : If you cannot, give thankes you haue liv'd so long, and make your selfe readie in your Cabine for the mischance of the houre, if it so hap. Cheerly good hearts: out of our way I say.
Exit.
Gon. I haue great comfort from this fellow: methinkes he hath no drowning marke upon him, his complexion is perfect. Gallows : stand fast good Fate to his han-ging, make the rope of his destiny our Cable, for our owne doth little advantage : If he be not borne to bee hang'd,our case is miserablie.
Enter Botefswaine.
Mira. If by your Art (my dearest father) you have Put the wilde waters in this Rore,aku them! The skye it seemes would poure downe stinking pitch, But that the Sea,amounting to th' welkin's checke,

Scena Secunda.

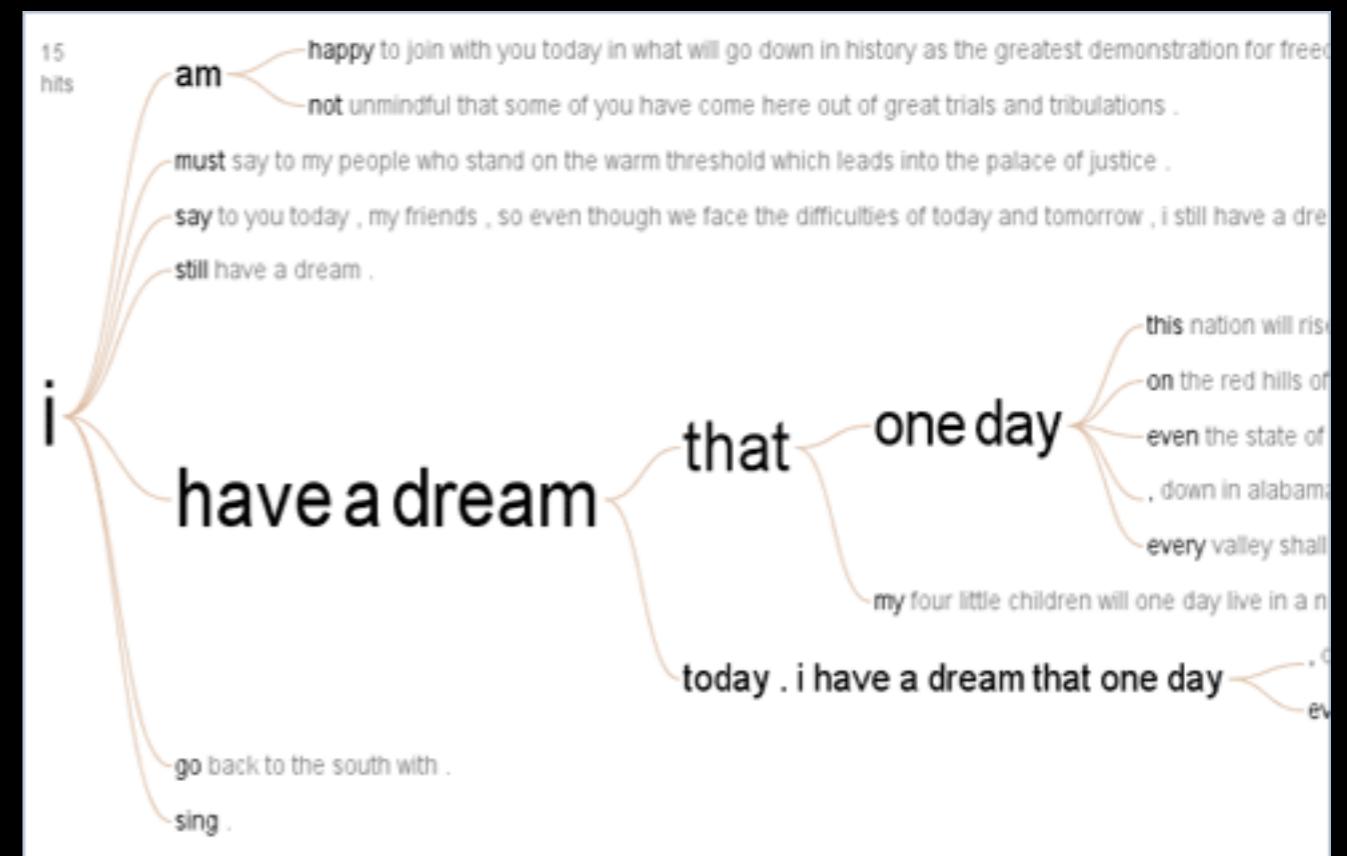
Enter Prospero and Miran-

Measurements —> Meaning

2. Organizing / Taxonomies



Digitization



Left: Petrus Ramus, classification structure from *Dialectique*, 1555
Right: Fernanda Viegas & Martin Wattenberg, Word Tree 2007

Measurements → Meaning

3. Building / Data Structures

```
mondial=# SELECT country, max(population)
mondial-#      FROM city
mondial-#      WHERE population IS NOT NULL
mondial-#      GROUP BY country
mondial-#      ORDER BY country
mondial-#      LIMIT 15;
```

country	max
A	1761738
AFG	2435400
AG	22219
AL	418495
AND	22256
ANG	2107648
ARM	1066264
AUS	4605992
AZ	2150800
B	507911
BD	7423137
BDS	88529
BEN	665100
BF	1475223
BG	1270284

(15 rows)

```
mondial=#
```

SQL:

Standard Query Language

The Data is Out There...

Maybe...

Measurements → Meaning

4. Searching / Aggregating

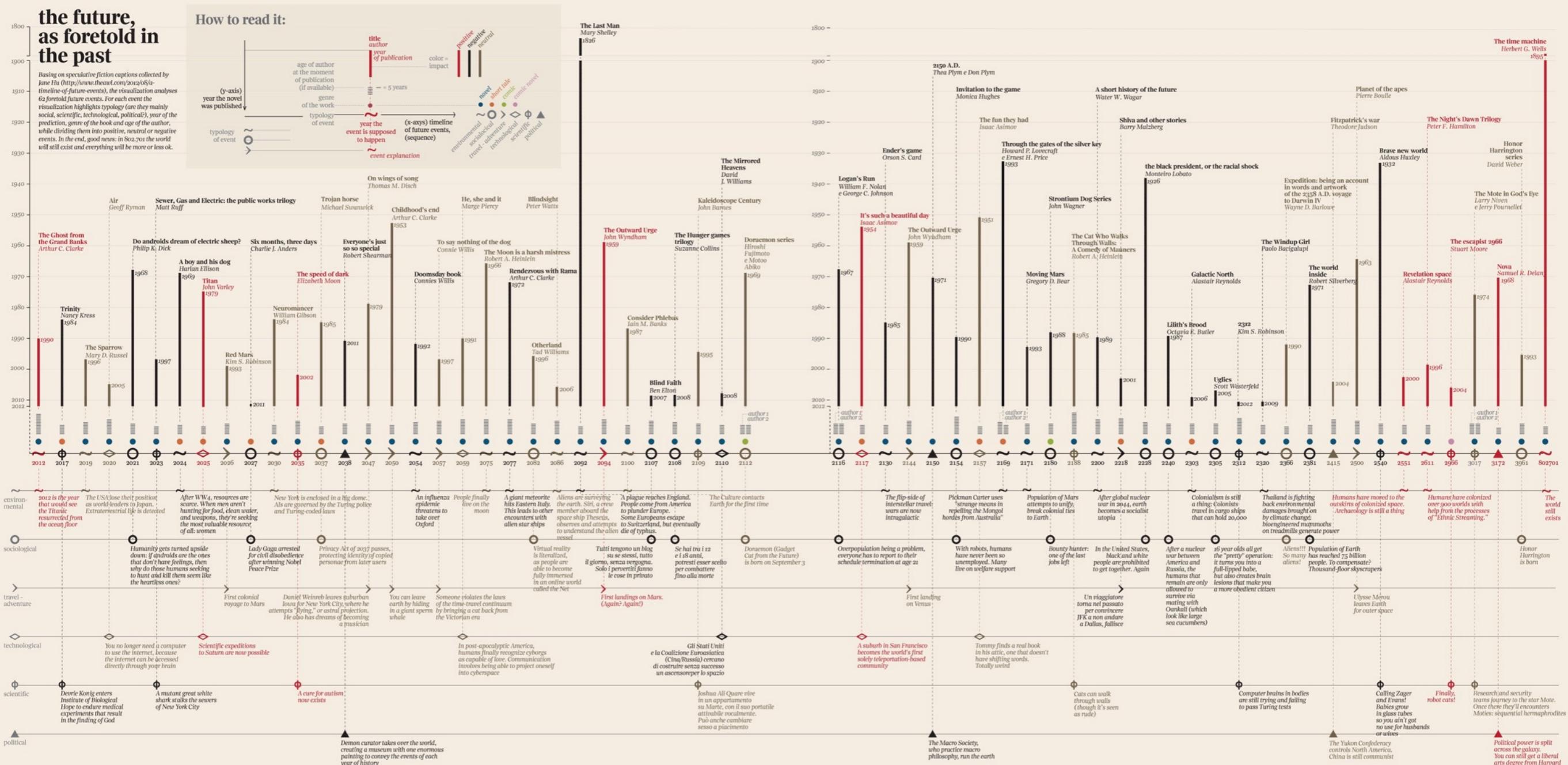
Python!!!!

```
movies = []
for this_movie in all_movies:
    movie_dict = {}
    movies_info = this_movie.find('div', attrs={'class': 'left'})
    movie_dict['title'] = movies_info.find(class_="headerTitle").find('a').
        #print(title)
    details = movies_info.find_all('li')
    for dets in details[:-1]:
        this_detail = dets.string.split(':')
        key = this_detail[0].strip()
        val = this_detail[1].strip()
        movie_dict[key] = val
        #print(this_detail[1].strip())
    country = details[-1].find('a').string
    movie_dict['country'] = country
    #print(country)
    movies.append(movie_dict)
movies
```

Measurements → Meaning

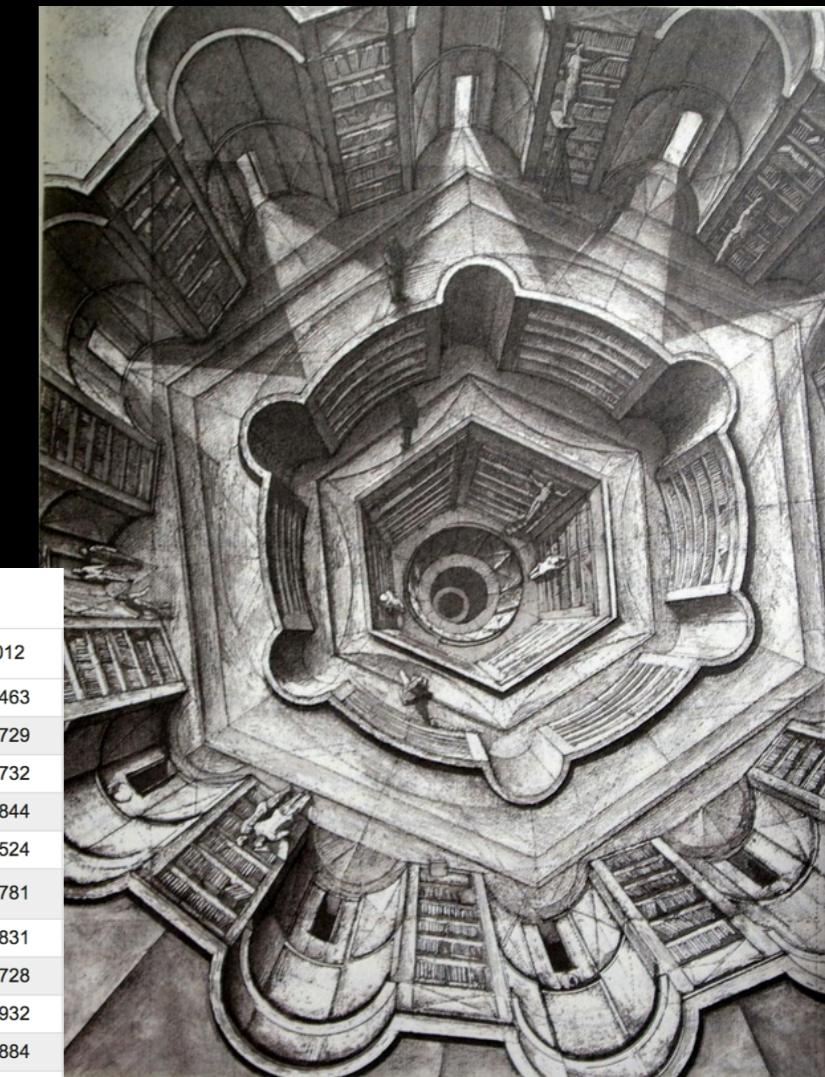
5. Displaying / Generating Knowledge

Design/Aesthetics
Interactivity/Screen Space



Imagining Data: Spatially

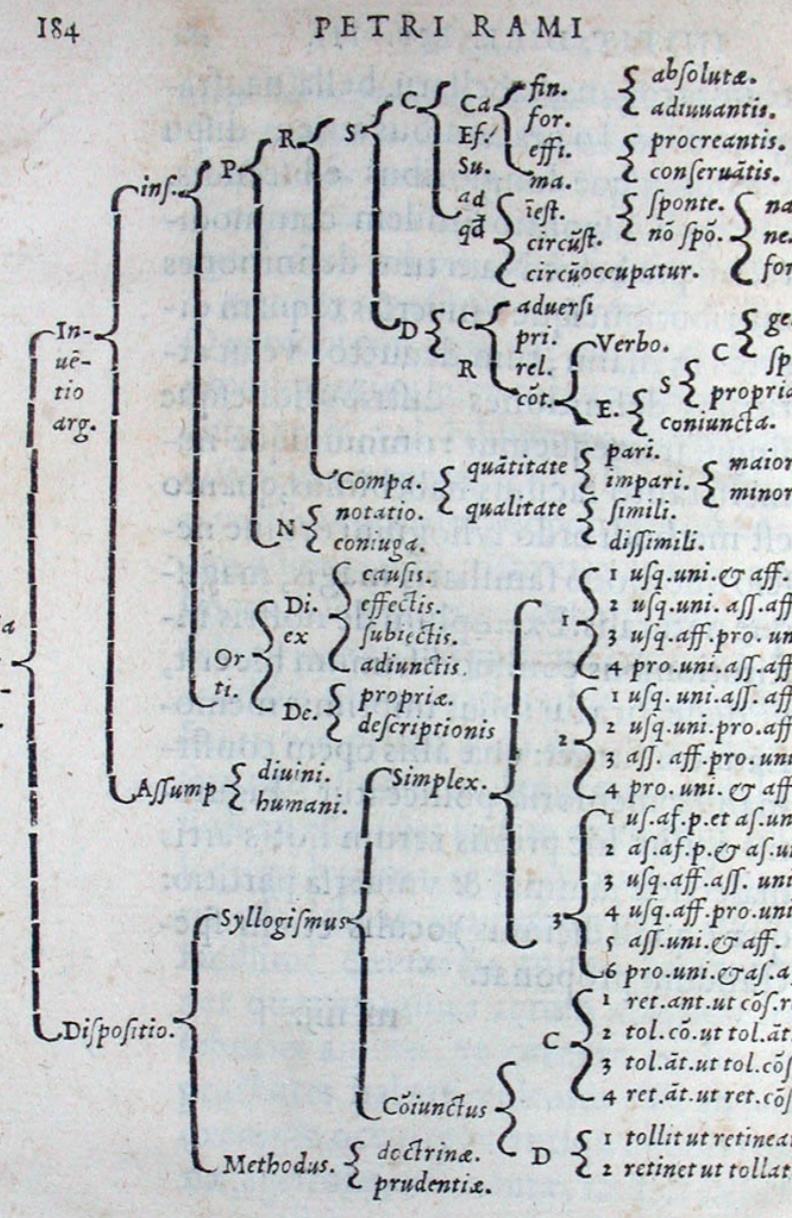
Learning to “see”/visualize the abstract structures and processes of data storage and computation.



Archive/Library

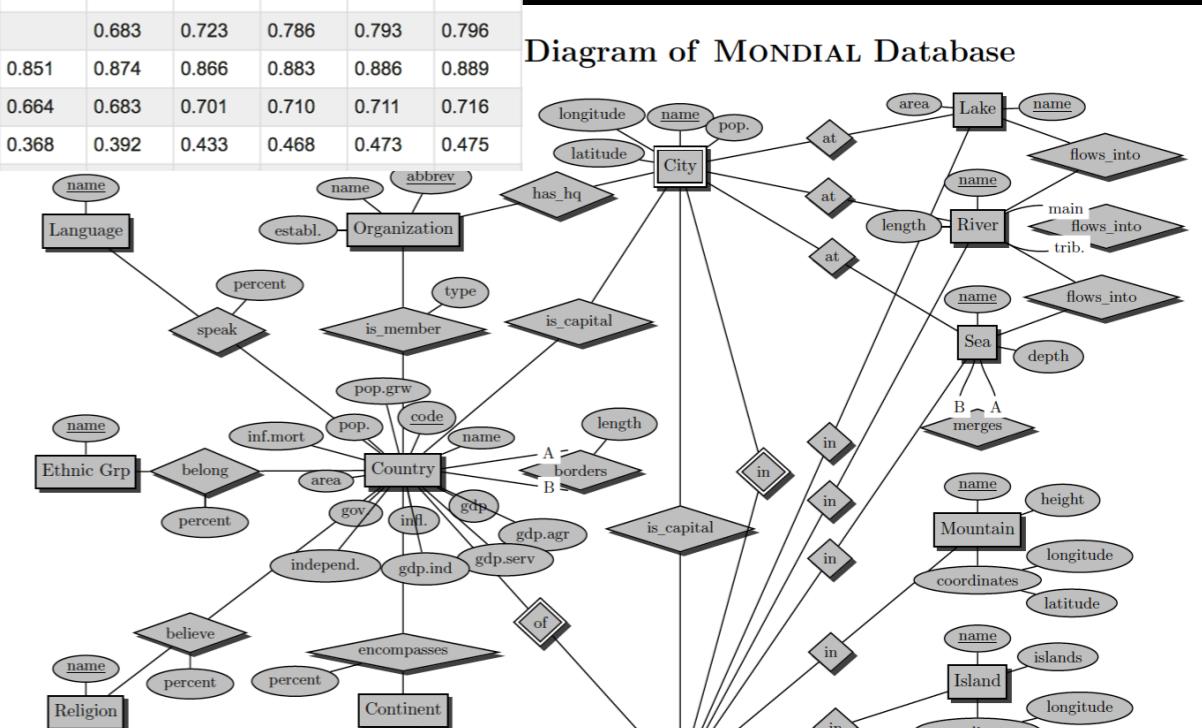
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23	Austria	0.747	0.764	0.794	0.815	0.836	0.853	0.879	0.881	0.884
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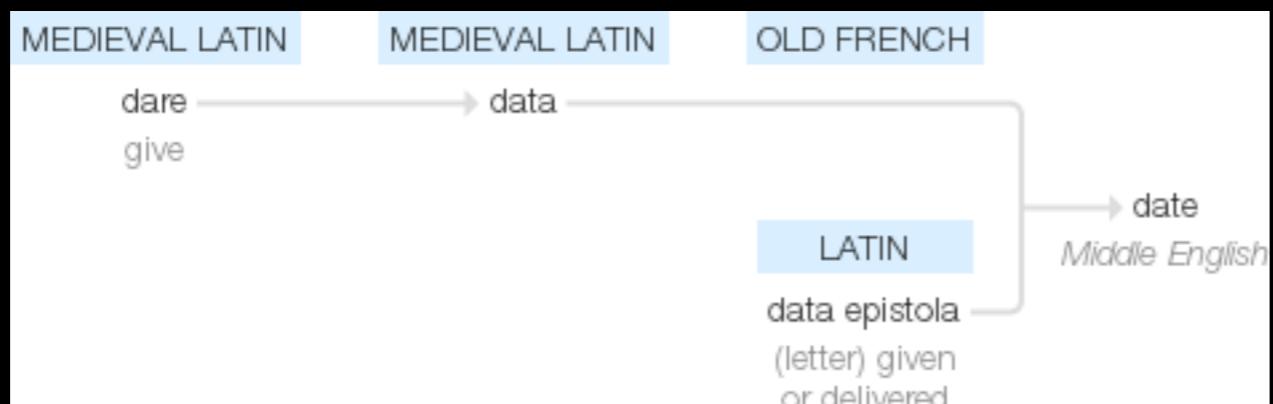


Table

Network



Data as Measurements



ORIGIN OF TIMEKEEPING

1.26.17

26 JAN 2017

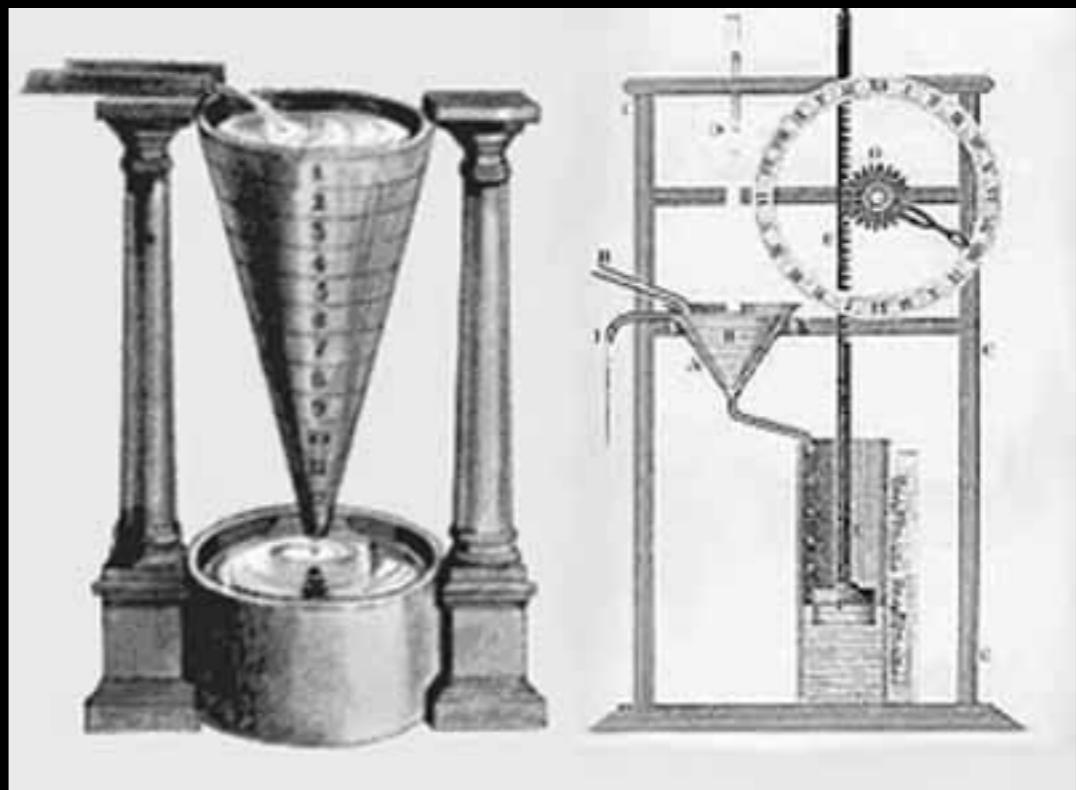
Epoch timestamp: 1485423884

Timestamp in milliseconds: 1485423884000

Human time (your time zone): 1/26/2017, 4:44:44 AM

Human time (GMT): Thu, 26 Jan 2017 09:44:44 GMT

TIMEKEEPING IS A SEMI-ARBITRARY
ORGANIZED SYSTEM



A Clepsydra or water clock

Data as Measurements: PostgreSQL Types

Name	Aliases	Description
bigint	int8	signed eight-byte integer
bigserial	serial8	autoincrementing eight-byte integer
bit [(n)]		fixed-length bit string
bit varying [(n)]	varbit	variable-length bit string
boolean	bool	logical Boolean (true/false)
box		rectangular box on a plane
bytea		binary data ("byte array")
character [(n)]	char [(n)]	fixed-length character string
character varying [(n)]	varchar [(n)]	variable-length character string
cidr		IPv4 or IPv6 network address
circle		circle on a plane
date		calendar date (year, month, day)
double precision	float8	double precision floating-point number (8 bytes)
inet		IPv4 or IPv6 host address
integer	int, int4	signed four-byte integer
interval [fields] [(p)]		time span
json		textual JSON data
jsonb		binary JSON data, decomposed
line		infinite line on a plane
lseg		line segment on a plane
macaddr		MAC (Media Access Control) address
money		currency amount
numeric [(p, s)]	decimal [(p, s)]	exact numeric of selectable precision

Learning process: what kind of knowledge

Why are we doing this?

Learning process: what kind of knowledge

Why are we doing this?

Suggestions?

Learning process: what kind of knowledge

Why are we doing this?

Research/Reading—Computer assisted

Making statistical arguments

Telling stories with data: visualization & meaning

Learning process: programming

How much do you need to know?

Need to know basis: knowing how much you need to know
Understanding the basic concepts and problem solving
Learning what to Learn (you can't know everything)

Reading documentation: read efficiently and with a purpose
Tutorials: don't lose a lot of time on these
Stack overflow: Great for specific issues,
the better you Google the better answers you get

Abstraction

Understanding the logical framework/underpinning and applying it

Learning process: programming

Practice

Patience and frustration

Make mistakes: don't be afraid making errors, sometimes try to make them and see if you get what you think

Using your time efficiently / step back

Take breaks / stretch / hydrate / breathe

Typos (patience! Typing fast does not mean that you are a good programmer)

Cutting and pasting often a wise thing to do

Learning process: programming

Installations

If you're not successful with the installation during the time allotted in class

Do not spend the rest of the class focused on troubleshooting

Using notebook for your computer to take notes and watch

Especially in the first week I will be posting commented versions of the SQL sessions.

Learning process: programming

Process of this class

Moving from structured to unstructured data and back

My preference is unstructured data, as that is more human

My emphasis is on understanding concepts, structures and processes, so you can keep learning/interpreting on your own

Careful reading: becoming a skilled reader of documentation in searcher of a stack overflow

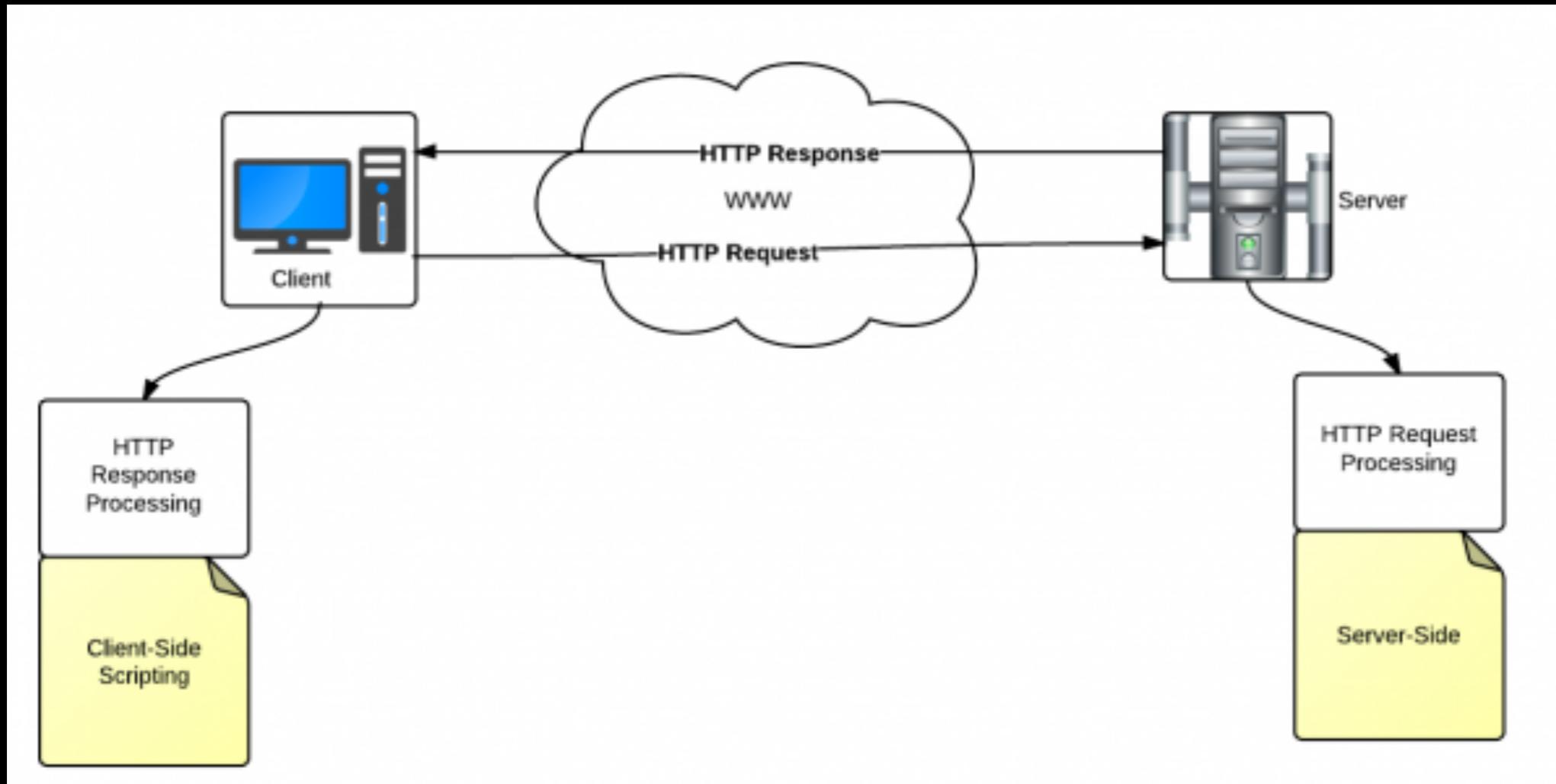
It's not about how many different tools you learn but being knowing how to learn as many as you want/need to in the future

Final projects: **building a data set** that can be mapped

Learning process: programming

Wrapping your heads around this
Client/server--connecting to database

Learning process: programming



Wrapping your heads around this
Client/server--connecting to database

Learning process: language

Who are we speaking to?

Learning process: language

Who are we speaking to?

MACHINES!!!

Learning process: language

How do Machines read?

DATA!!—Numbers/Symbols/Text

Clean text editors: sublime/BBedit/Atom

Literally: “every single space and symbol one-by-one”

Learning process: language

What do Machines understand?

DATA!!—NUMBERS

Structured data: tables
Rows and columns
Rows: entries
Columns: data types

Human development index (HDI)

HDI Rank	Country	1980	1985	1990	1995	2000	2005	2010	2011	2012
171	Afghanistan	0.228	0.273	0.297	0.321	0.334	0.399	0.448	0.456	0.463
85	Albania	0.625	0.623	0.624	0.619	0.656	0.695	0.722	0.728	0.729
83	Algeria			0.574	0.596	0.640	0.687	0.725	0.730	0.732
34	Andorra							0.823	0.821	0.844
149	Angola					0.390	0.449	0.509	0.521	0.524
58	Antigua and Barbuda							0.782	0.778	0.781
40	Argentina	0.675	0.694	0.705	0.731	0.762	0.775	0.811	0.818	0.831
85	Armenia			0.632	0.605	0.648	0.695	0.721	0.723	0.728
2	Australia			0.865	0.882	0.898	0.912	0.927	0.930	0.932
23	Austria	0.747	0.764	0.794	0.815	0.836	0.853	0.879	0.881	0.884
78	Azerbaijan				0.609	0.640	0.688	0.741	0.742	0.745
55	Bahamas					0.778	0.780	0.774	0.778	0.783
45	Bahrain	0.679	0.727	0.746	0.775	0.794	0.816	0.819	0.817	0.819
142	Bangladesh	0.338	0.356	0.386	0.424	0.468	0.505	0.546	0.559	0.563
57	Barbados	0.670	0.700	0.716	0.731	0.753	0.765	0.780	0.786	0.793
50	Belarus					0.683	0.723	0.786	0.793	0.796
21	Belgium	0.755	0.774	0.806	0.851	0.874	0.866	0.883	0.886	0.889
101	Belize			0.644	0.664	0.683	0.701	0.710	0.711	0.716
166	Benin	0.286	0.327	0.344	0.368	0.392	0.433	0.468	0.473	0.475

Learning process: categorical knowledge

Thinking categorically: What are forms of categorical thinking?

Learning process: categorical knowledge

Thinking categorically: What are forms of categorical thinking?

How do we categorize people?

Media Taxonomies/Ontologies: The Self

```
var person = {  
    firstName : "Ada",  
    lastName : "Reid",  
    age : 32,  
    eyeColor : "brown",  
    hairColor : "brown",  
    hairStyle : "long",  
    gender : "female",  
    hometown : "New York",  
    religion : "Jewish",  
    friends : ["Laila", "Steve", "Kate"],  
    movies : ["Breakfast at Tiffany's", "Batman"],  
    music : ["Lady Gaga", "Halsey", "The Chainsmokers"],  
    animalFav : "cat",  
    carNumber : 1,  
    relation : "in a relationship",  
    relatNum : 4,  
    pets : 3,  
    cats : 3,  
    dogs : 0,  
    petNames : ["Binx", "Bucket", "Box"],  
    drinking : ["does", "does not"],  
    smoking : ["does", "does not"],
```

Media Taxonomies/Ontologies: The Self 2004

 [thefacebook] home search global social net invite faq logout

Scott Pearson's Profile (This is you) Scranton

Picture [edit] 

Information [edit]

Account Info:

Name: Scott Pearson, '05
Member Since: January 12, 2005
Last Update: February 3, 2005

Basic Info:

Email: pearsons2@scranton.edu
Status: Alumnus/Alumna
Sex: Male
Year: 2004
Concentration: Computing Sciences
Mathematics

Phone: 570.499.4818
High School: Dunmore HS '00

Extended Info: [edit]

Screenname: ScottiePP7
Looking For: Friendship
Dating
A Relationship
Random play
Whatever I can get

Interested In: Women
Relationship Status: Single
Political Views: Liberal
Interests: Drinking, Football, Basketball, Tennis,
saying you'll have that

Connection
This is you.

Access
Scott is currently logged in from a non-residential location.

Other Schools [edit]

Media Taxonomies/Ontologies: The Self 2005

[thefacebook]

home search global social net invite faq logout Puget Sound

Brian Moore's Profile

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

A row of three small profile pictures labeled Kerala [REDACTED], Jennifer, and Amy [REDACTED].

Kerala [REDACTED] Jennifer Amy [REDACTED]

Information

Account Info:

Name: Brian [REDACTED]
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: [REDACTED]
Screenname: DoctaBu
Mobile: 414.702. [REDACTED]
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 [REDACTED] (Tiny Tykes Day Care)
Very Liberal
Political Views: Film, Graphic Design, Video Editing, Computers, Bowling, Dancing, Acting, Singing, Listening to Decent Music, Sleeping, Being Crazy
Interests: Beck, The Beatles, They Might Be Giants, Phoenix, Paul Simon, OutKast, Avenue Q, Profound, Red Hot Chili Peppers, Beach

Puget Sound

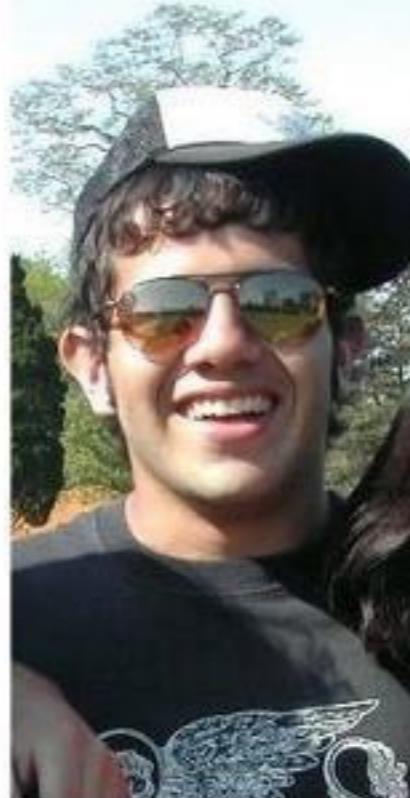
Media Taxonomies/Ontologies: The Self 2006

facebook

Edwin Cuervo's Profile (This is you)

home search global social net invite help logout

Johns Hopkins



Information

Account Info

Name: Edwin
Member Since: September 19, 2004
Last Update: October 23, 2005

Basic Info [edit]

School: Johns Hopkins '08
Status: Student
Sex: Male
Concentration: Film and Media Studies
Music

Residence: McCoy Hall
Birthday: 12/03/1986
Home Town: Middletown, DE 19709
High School: St. Andrews School '04

Contact Info [edit]

School Email: [edcuervo@jhu.edu](#)
Screenname: [edcuervo](#)
Current Town: [Middletown, DE 19709](#)

Personal Info [edit]

Interested In: Women
Relationship Status: In a Relationship with Sarah
Political Views: Conservative
Interests: Music, Wrestling, TV, History, Guitar, Parties, long walks on the beach, etc.
Clubs and Jobs: JHU Wrestling, SAE, Jazz Band
Favorite Music:
Favorite Movies: Anchorman, LOTR, The English Patient, Good Fellas, Godfather, Dodgeball, Usual Suspects, definitely not the Matrix...
Favorite Quote: "If you are the Matrix, then I am the ONE." – a terrible pickup line.
About Me: School's back....

Groups

Woodies '04-'05! • Sigma Alpha Epsilon • Delaware, Team Steam • Tap It • DEFAWNK • Short Side Strong Side • Omicron • My Goal In Life Is To Be the Biggest Fat — That I Can Be • Disciples of "The Cuervo" • Hopkins Wrestling • Musicians Duet Better • Fans of Real Metal • The Pact • Beta Alpha Nu Delta (JHU Band) • I Freak Out When I See People Walking Toward Me and Dont Know Which Side they are Going To Go To • And By Milk it, I Mean This Guy

[see all]

Quick Search

My Profile edit
My Friends
My Photos
My Groups
My Parties
My Messages
My Account
My Privacy

View More Photos of Me (21)
Visualize My Friends
Edit My Profile
Edit My Picture
Edit My Privacy

Connection

This is you.

Access

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

Friends at Johns Hopkins [edit]
Edwin has 339 Johns Hopkins friends.

Media Taxonomies/Ontologies: The Self 2007

facebook Profile edit Friends Networks Inbox (8) home account privacy logout

Gina Bianchini
Update your status...

Networks: Stanford Alum

Mini-Feed edit See All
Displaying 10 stories.

Today

Gina added the Handbell Podcast Player application. 8:40pm

June 19 Gina and Paul Weller are now friends. 12:02pm

June 18 Gina and Jay Tannenbaum are now friends. 4:53pm

June 17 Gina added the Ning Network Creator's Video application. 7:52pm

Gina and Sam Jadallah are now friends. 7:51pm

Gina and Ian McCarthy are now friends. 7:51pm

Gina added the House of Kyle Latest Photos application. 7:50pm

Gina added the Top Friends application. 7:49pm

Gina added the My Questions application. 7:48pm

Gina and Brooke Hammerling are now friends. 7:47pm

Information edit

Contact Info [edit]
Email: gina_bianchini@stanfordalumni.org

To fill out the rest of your profile, click here.

Education and Work edit

Education Info [edit]

College:	Stanford
	Political Science

High School: Lynbrook High

Work Info [edit]

Employer:	Ning
Position:	CEO
Time Period:	June 2004 – Present
Location:	Palo Alto, CA

Search Applications Applications edit

facehack Photos Groups Events Marketplace My Questions Top Friends + more

Stanford Flyer Malaria Vaccine Study

The Stanford-LPCH Vaccine Program is seeking adults for a research study of an experimental malaria vaccine. You must be 18-45 yrs old and in good health. Participants will be compensated.

[create] [see all] Share +

Handbell Podcast Player edit

Handbell Podcast 071iffs - Listener F

00:37 Handbell Community

Handbell Podcast 071iffs - Listener F

1. Handbell Podcast 071iffs -

2. Handbell Podcast 071 - Am

3. Handbell Podcast 070 Iffs -

4. Handbell Podcast 070 - Pac

5. Handbell Podcast 069 - List

6. Handbell Podcast 068 - Bat

7. Handbell Podcast 067 - Intx

8. Handbell Podcast 066 - Rai

Media Taxonomies/Ontologies: The Self 2008

facebook

Profile edit Friends Networks Inbox (1) home account privacy logout

Search Applications Photos Groups Events Marketplace Videos more

Holly Ann Calloway is out and about. 11 hours ago 4:48 AM

Wall About Photos

Holly is out and about. 11 hours ago 4:48 AM

Past Statuses Holly wonders what she is going to have for din din. Feb 11th at 2:38pm

Holly edited his/her profile. Feb 11th at 2:07am

Eiza Bennet wrote: Feb 11th at 2:02am
aloha! see you at dinner next weekend! happy early birthday!
Wall-to-Wall - Write on Eiza's Wall

Holly edited his/her profile. Feb 11th at 2:02am

Holly Ann Calloway tagged Holly in 2 photos. Feb 11th at 2:07am

Eiza Bennet wrote on Holly Ann Calloway's wall. Feb 11th at 2:02am
...
thanks for the photo tags! hawaii was fun...hope to see you soon.


Holly edited his/her profile. Feb 11th at 2:02am

Holly is now friends with Ellis Bell and Dylan Soke. Feb 11th at 2:02am

Holly is listed as in a relationship.

Pip Hainham wrote: Feb 11th at 2:02am
hey holly ann! can't wait for your birthday! i haven't been to vegas in forever! hope you're ready!
Wall-to-Wall - Write on Pip's Wall

Holly posted a photo. Feb 11th at 2:02am
<http://animals.nationalgeographic.com>
so cute!!



My name is Thor Jr.

Feed Pet Gift

Recently pet by

Add a comment

Media Taxonomies/Ontologies: The Self 2013

Kyle Meyer

Kyle Meyer

Friends Message Call

Timeline About Friends 19 Mutual Photos 47 More

About

Product Designer at Facebook
Past: Big Cartel and Clockwork Active Media Systems.

Studied Interactive Media Design at The Art Institute International Minnesota
Past: West De Pere High School

Lives in San Francisco, California

From West De Pere, Wisconsin

Followed by 3,627 people

Friends - 442 (19 Mutual)

Mike Vehmal Rose Yao Wilson Miner

Lu Chen Jeff Huang Matt Sain

What's on your mind?

Matt Pakes with Kyle Meyer and 4 others at Lake Tahoe.
Yesterday 3h

Like · Comment · Share

Mike Murphey, Jason Fotinatos and 7 others like this.

Now 2013 2012 2011 2010 2009 2008 2007 2006 2005 2002 Born

Learning process: categorical knowledge

Name	Aliases	Description
bigint	int8	signed eight-byte integer
bigserial	serial8	autoincrementing eight-byte integer
bit [(n)]		fixed-length bit string
bit varying [(n)]	varbit	variable-length bit string
boolean	bool	logical Boolean (true/false)
box		rectangular box on a plane
bytea		binary data ("byte array")
character [(n)]	char [(n)]	fixed-length character string
character varying [(n)]	varchar [(n)]	variable-length character string
cidr		IPv4 or IPv6 network address
circle		circle on a plane
date		calendar date (year, month, day)
double precision	float8	double precision floating-point number (8 bytes)
inet		IPv4 or IPv6 host address
integer	int, int4	signed four-byte integer
interval [fields] [(p)]		time span
json		textual JSON data
jsonb		binary JSON data, decomposed
line		infinite line on a plane
lseg		line segment on a plane
macaddr		MAC (Media Access Control) address
money		currency amount
numeric [(p, s)]	decimal [(p, s)]	exact numeric of selectable precision

Learning process: categorical knowledge

Thinking categorically: What are forms of categorical thinking?

Building databases...

Taxonomy of data and datatypes...

Taxonomy: the importance of types of information

Why is this important?

Not just memory storage

Consistency for machine recognition/readability

Dealing with missing or improper values

Data itself is meaningless to a computer

Meaning is built and controlled via design

Learning process: categorical knowledge

Thinking categorically: What are forms of categorical thinking?

Building databases...

Taxonomy of data and datatypes...

Numeric types

23.5141 has a precision of 6 and a scale of 4.

Integers can be considered to have a scale of zero.

What is being measured: numerical measurements

Time -- with lots of issues

Money

Scores

Percentages

Populations...

Learning PostgreSQL

Meaning: Standard Query Language

Point: Speed, taxonomies, aggregation, memory

Structure: explicitly defined datatypes for building/storing relational tables

Style: Paired-down syntax with hierarchical keywords for queries, changes, updates, etc

Inquiry/Query

Inquiry/Query

<https://www.postgresql.org/docs/current/static/sql-select.html>