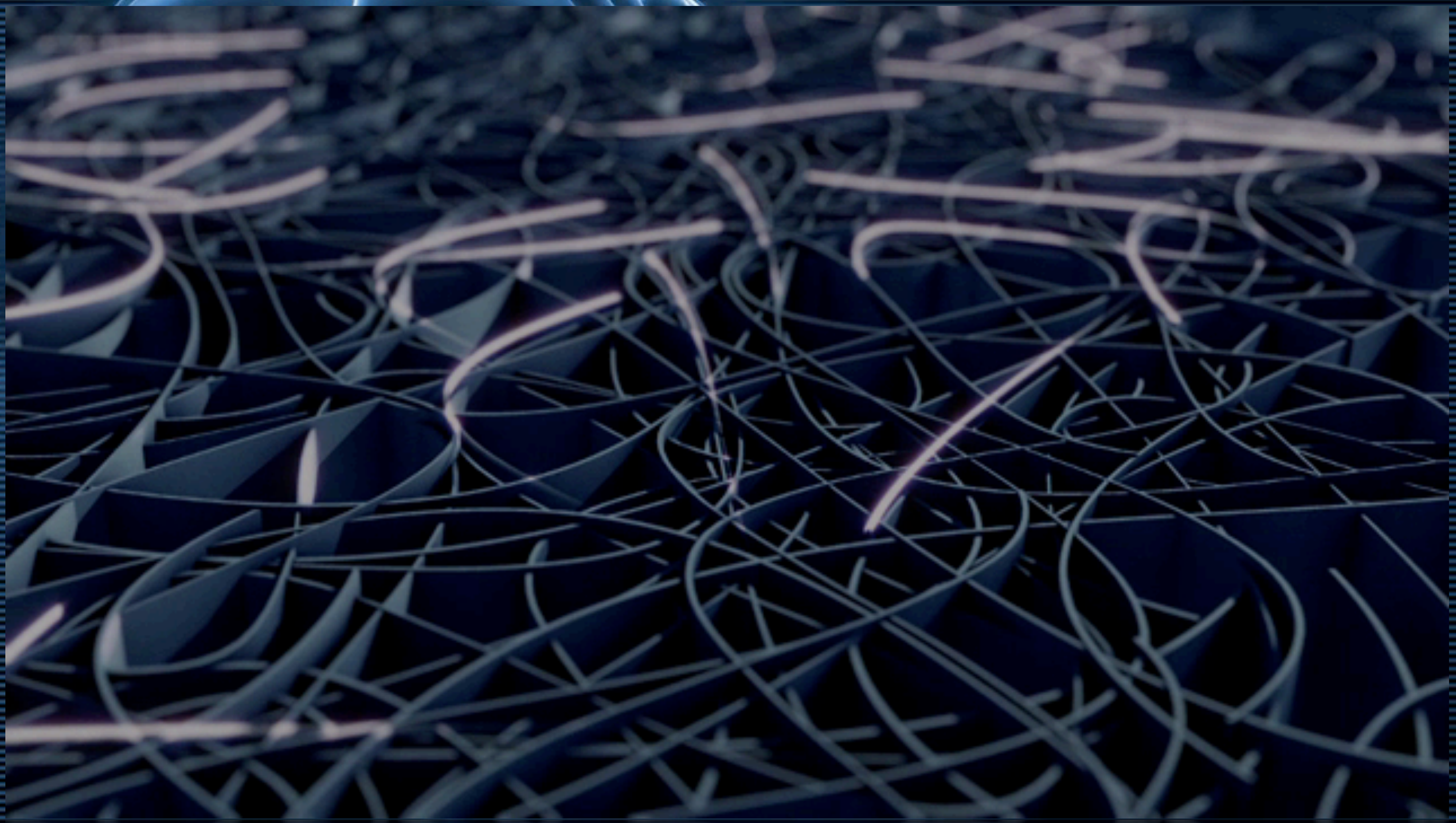


University of Zurich[UZH]

Citizen Scientist

From Gofer to First Class Citizen



Substitution of IT for human coordination

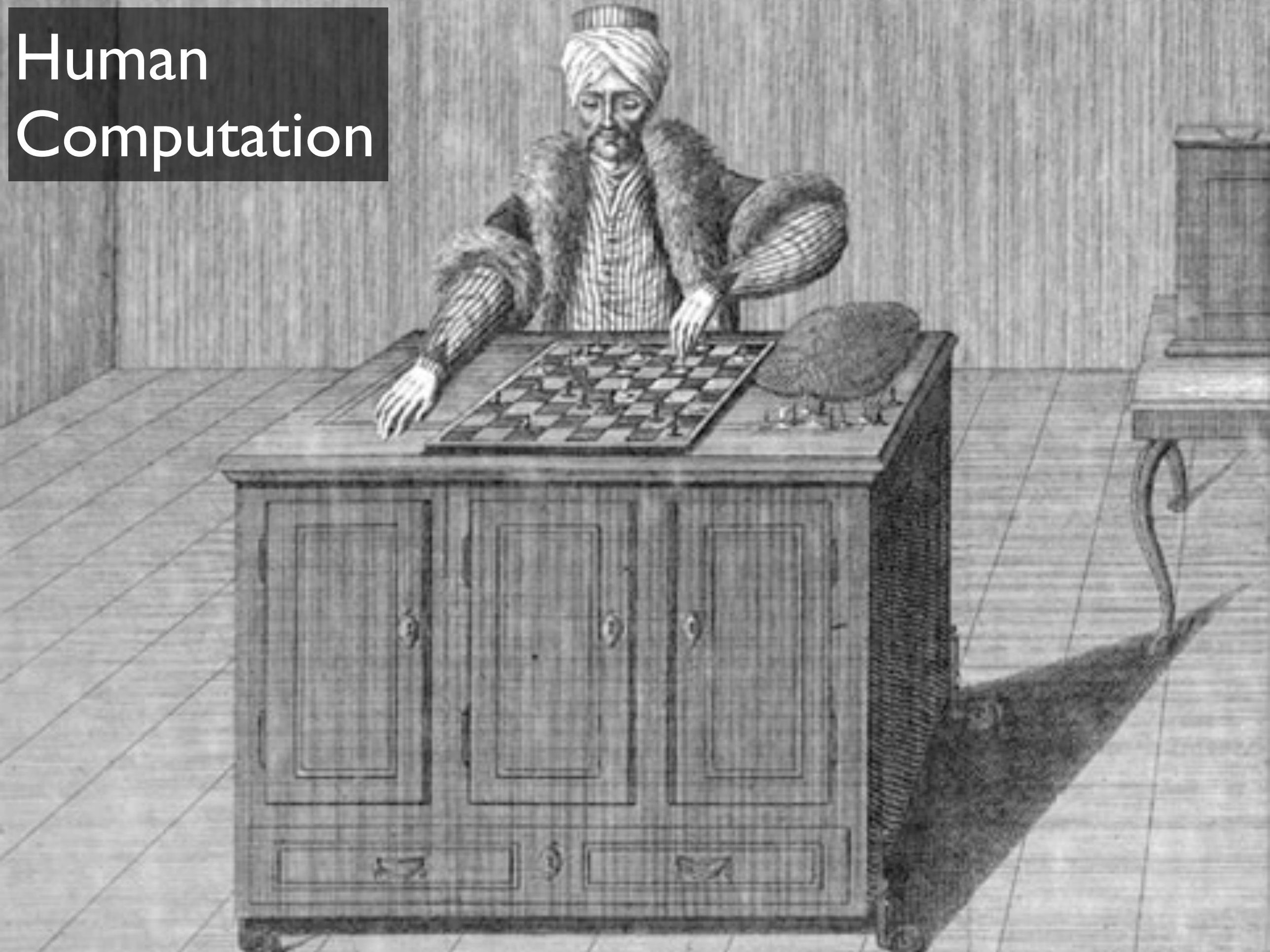
Increase in the amount of coordination used

http://www.flickr.com/photos/33503255@N00/119945422

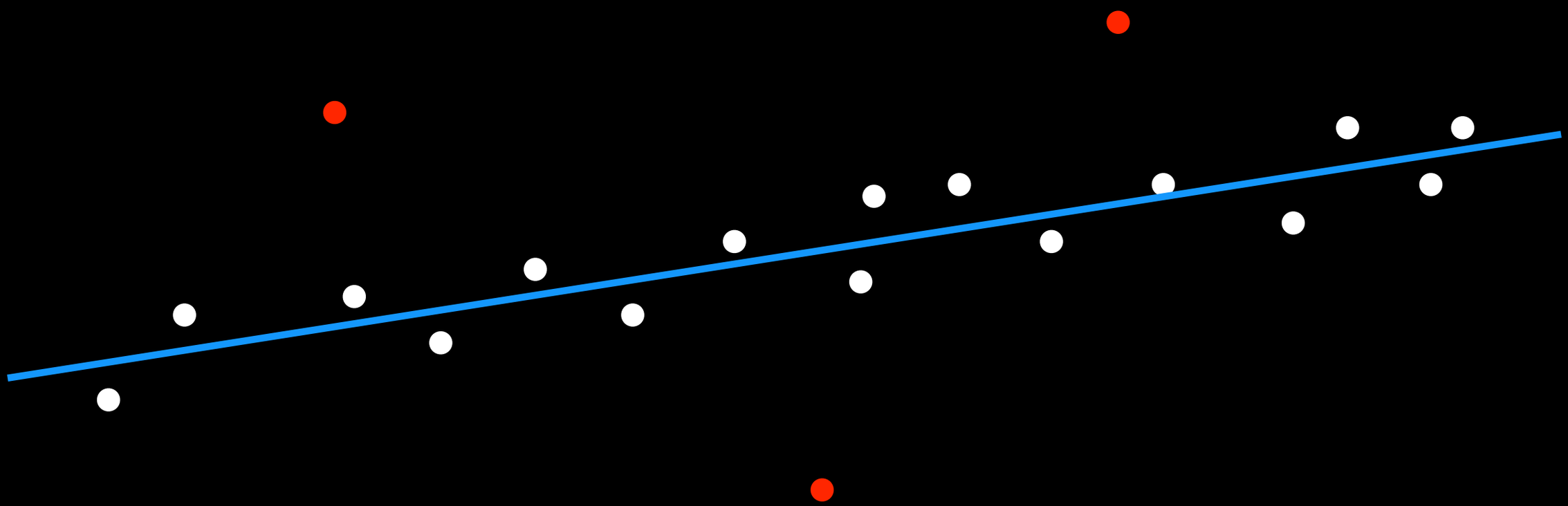
Use of more coordination intensive structures

Malone & Rockart, 1995

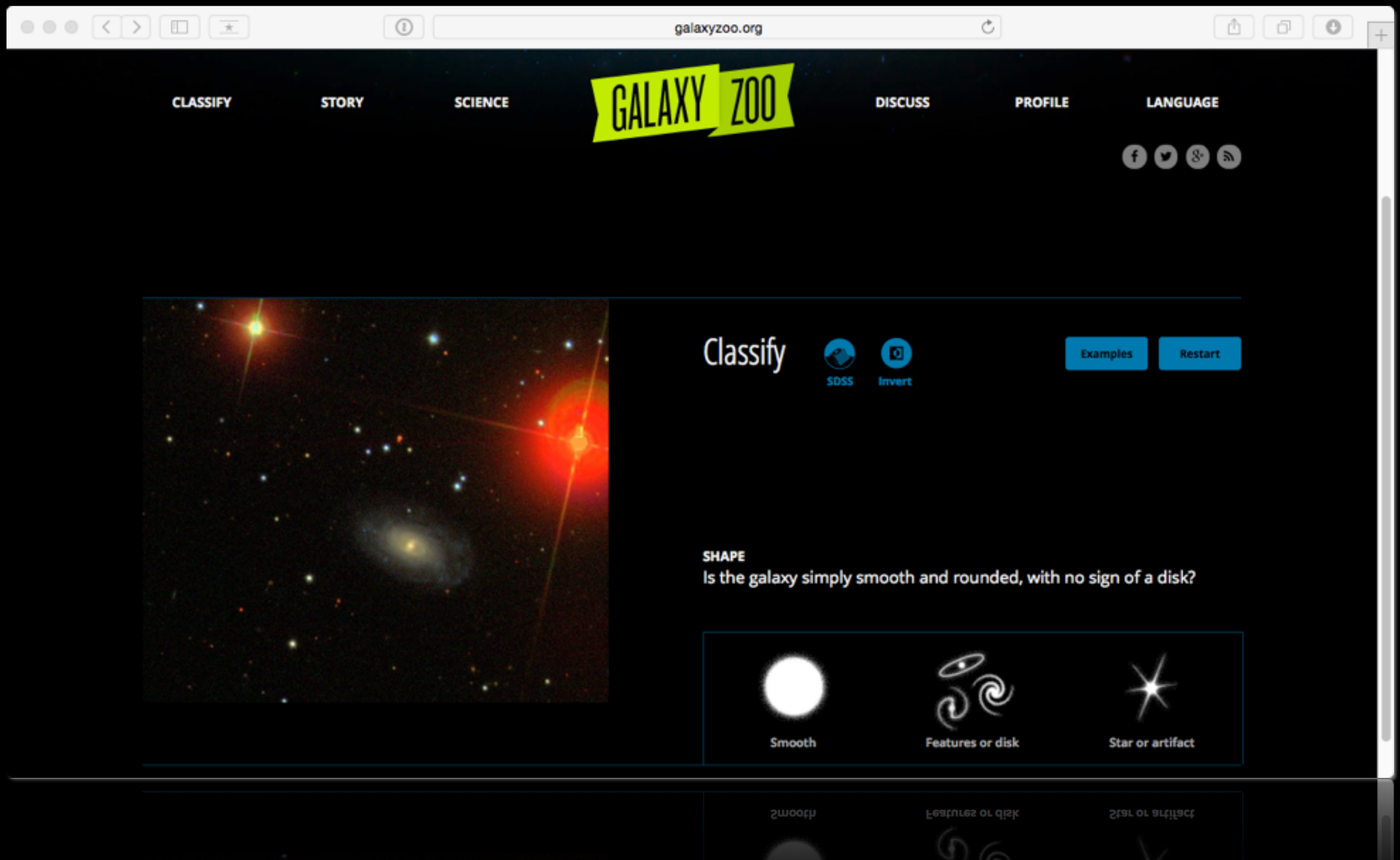
Human Computation



Human Computation

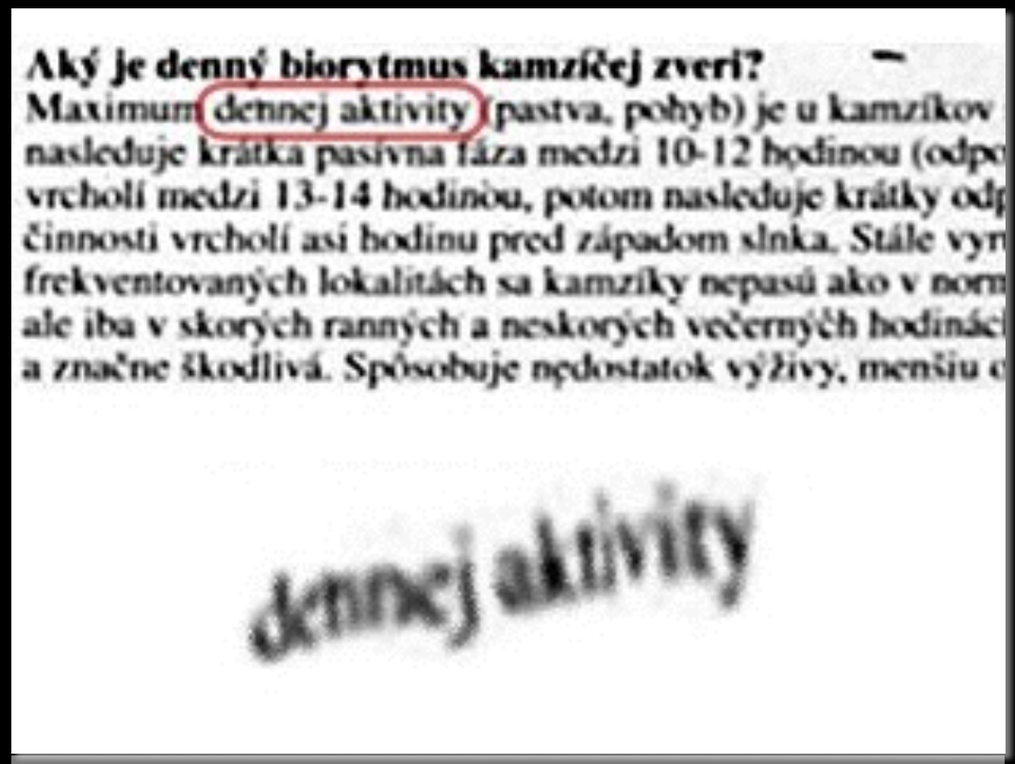


Human Computation



Human Computation





Human Computation

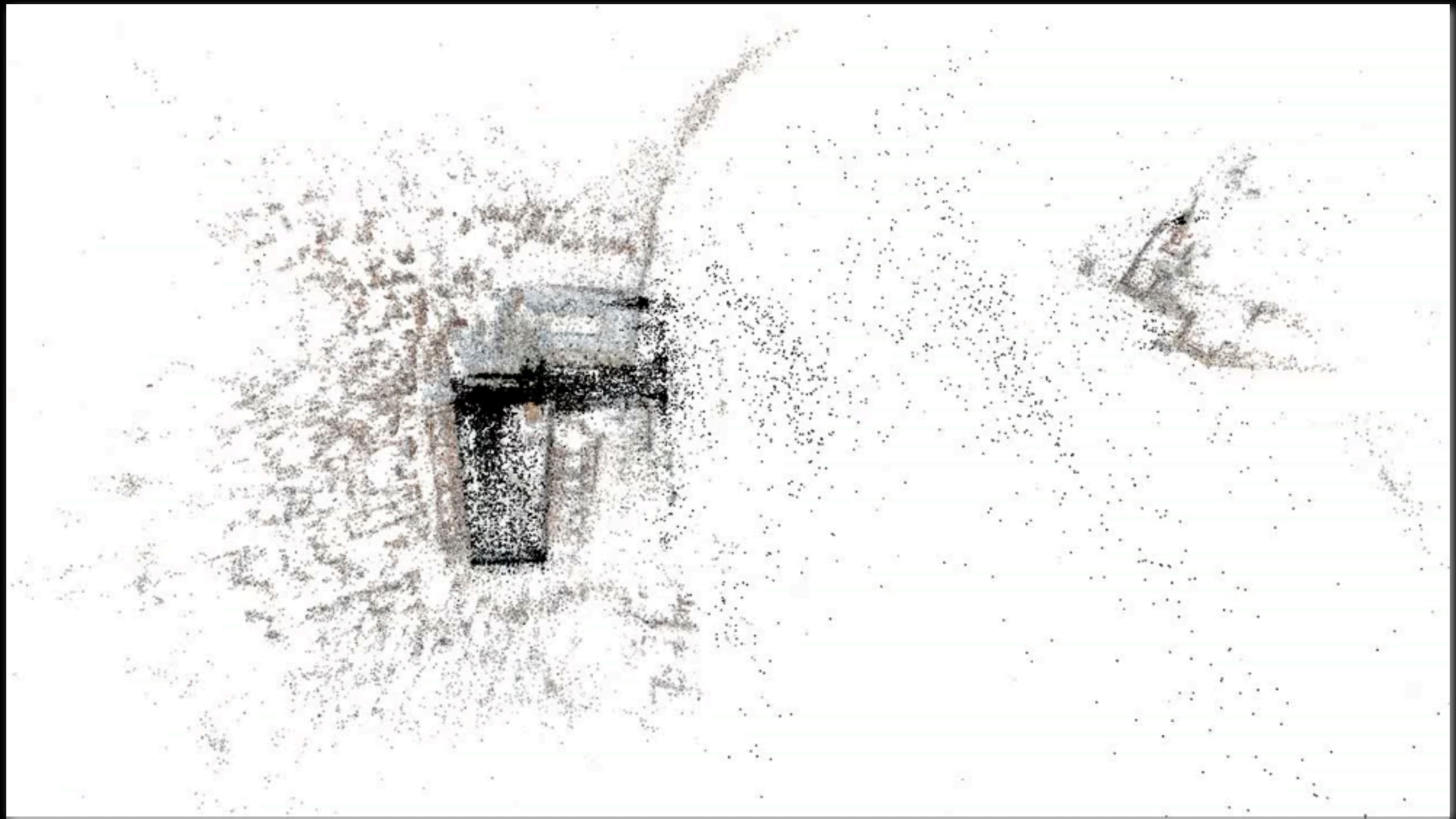
A COMPUTER WANTED.

WASHINGTON, May 1.—A civil service examination will be held May 18 in Washington, and, if necessary, in other cities, to secure eligibles for the position of computer in the Nautical Almanac Office, where two vacancies exist—one at $1,000, the other at $1,400..

The examination will include the subjects of algebra, geometry, trigonometry, and astronomy. Application blanks may be obtained of the United States Civil Service Commission.

The New York Times
Published: May 2, 1892
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Collective Intelligence



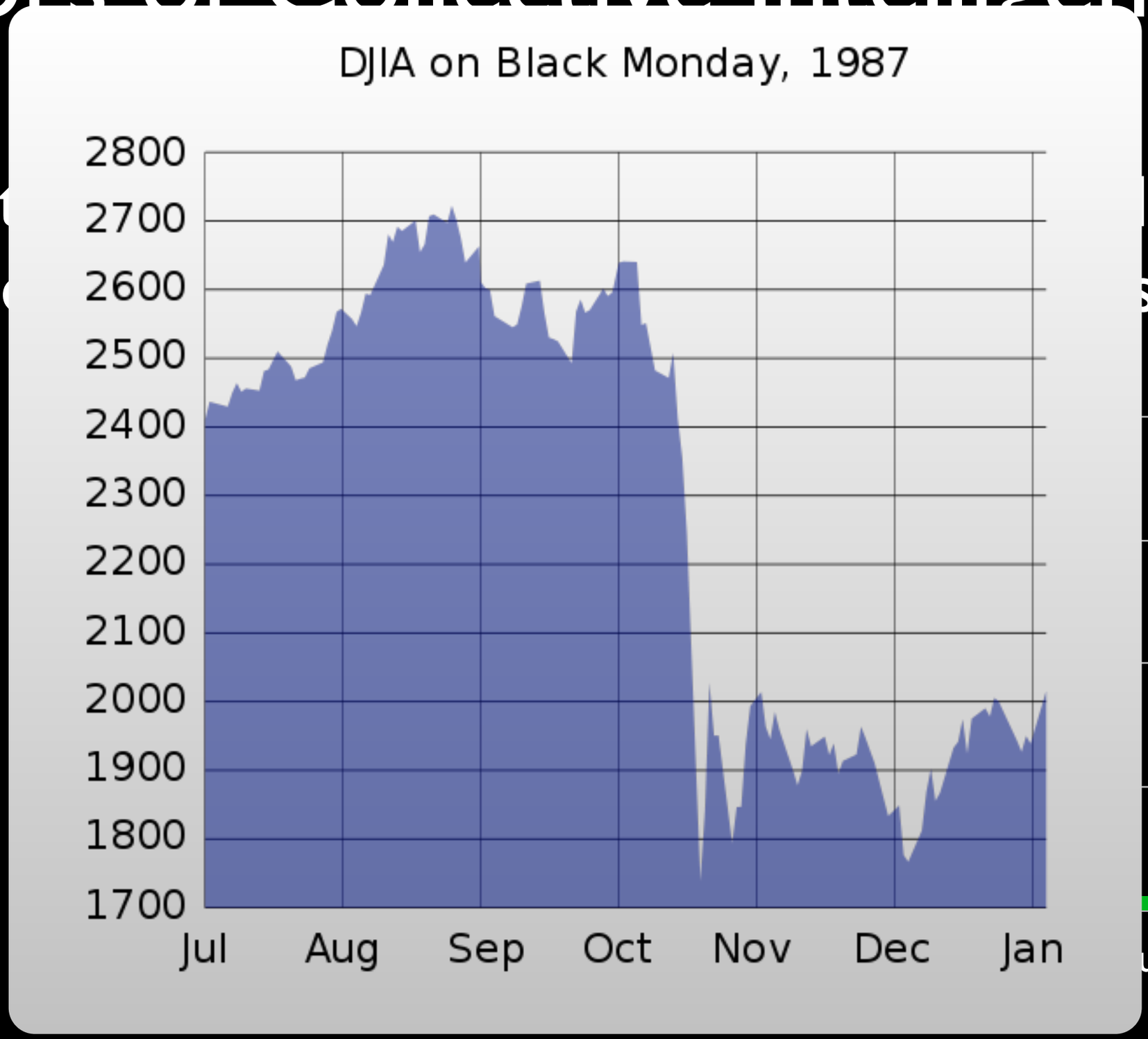
http://grail.cs.washington.edu/rome/

the Global Brain



Errors of Collective Intelligence...

"Did t ATO
to op sovo?"

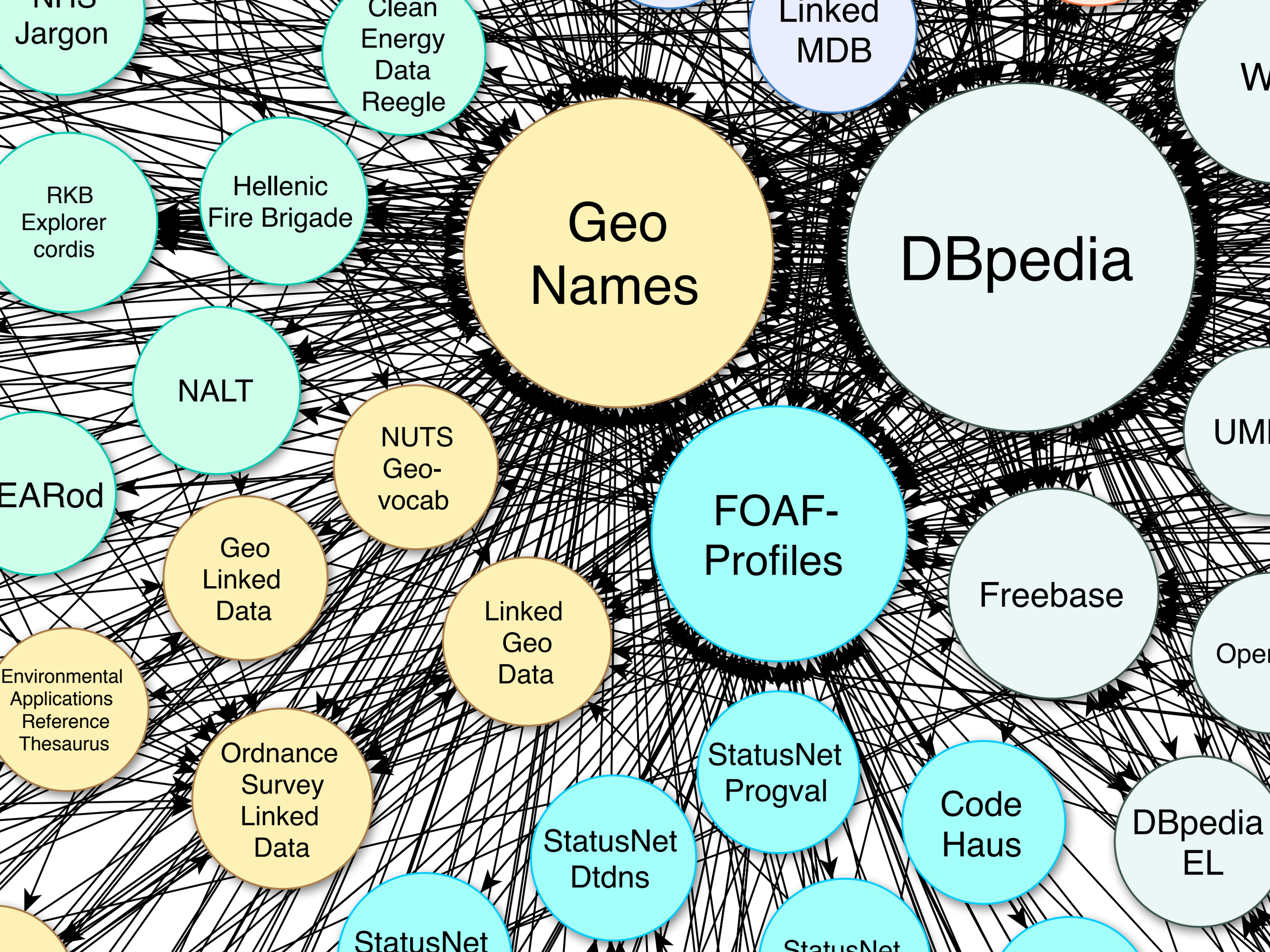


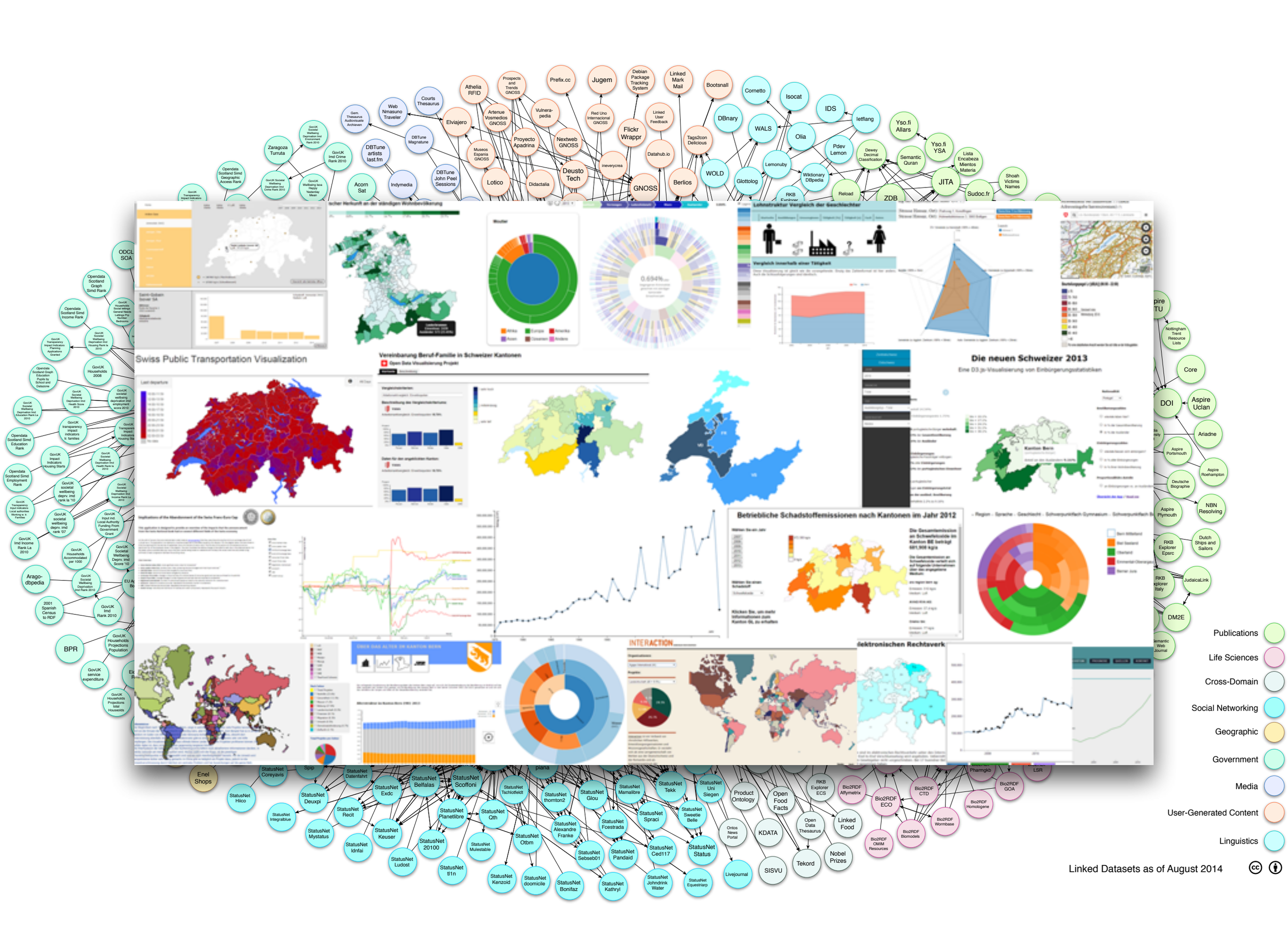
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Wrong Correct

Graham & Metaxas, 2003


NHS Jargon
Clean Energy Data Reegle
Linked MDB
W
RKB Explorer cordis
Hellenic Fire Brigade
Geo Names
DBpedia
NALT
NUTS Geo-vocab
UM
EARod
FOAF-Profiles
Geo Linked Data
Linked Geo Data
Freebase
Oper
Environmental Applications Reference Thesaurus
Ordnance Survey Linked Data
StatusNet Progval
Code Haus
DBpedia EL
StatusNet Dtdns
StatusNet


Swiss Public Transportation Visualization
Vereinbarung Beruf-Familie in Schweizer Kantonen
Die neuen Schweizer 2013
Eine D3.js-Visualisierung von Einbürgerungsstatistiken
Betriebliche Schadstoffemissionen nach Kantonen im Jahr 2012
Lohnstruktur Vergleich der Geschlechter
Vergleich innerhalb einer Tätigkeit
INTERACTION
Publications
Life Sciences
Cross-Domain
Social Networking
Geographic
Government
Media
User-Generated Content
Linguistics
Linked Datasets as of August 2014

Citizen Scientist or Gofer?



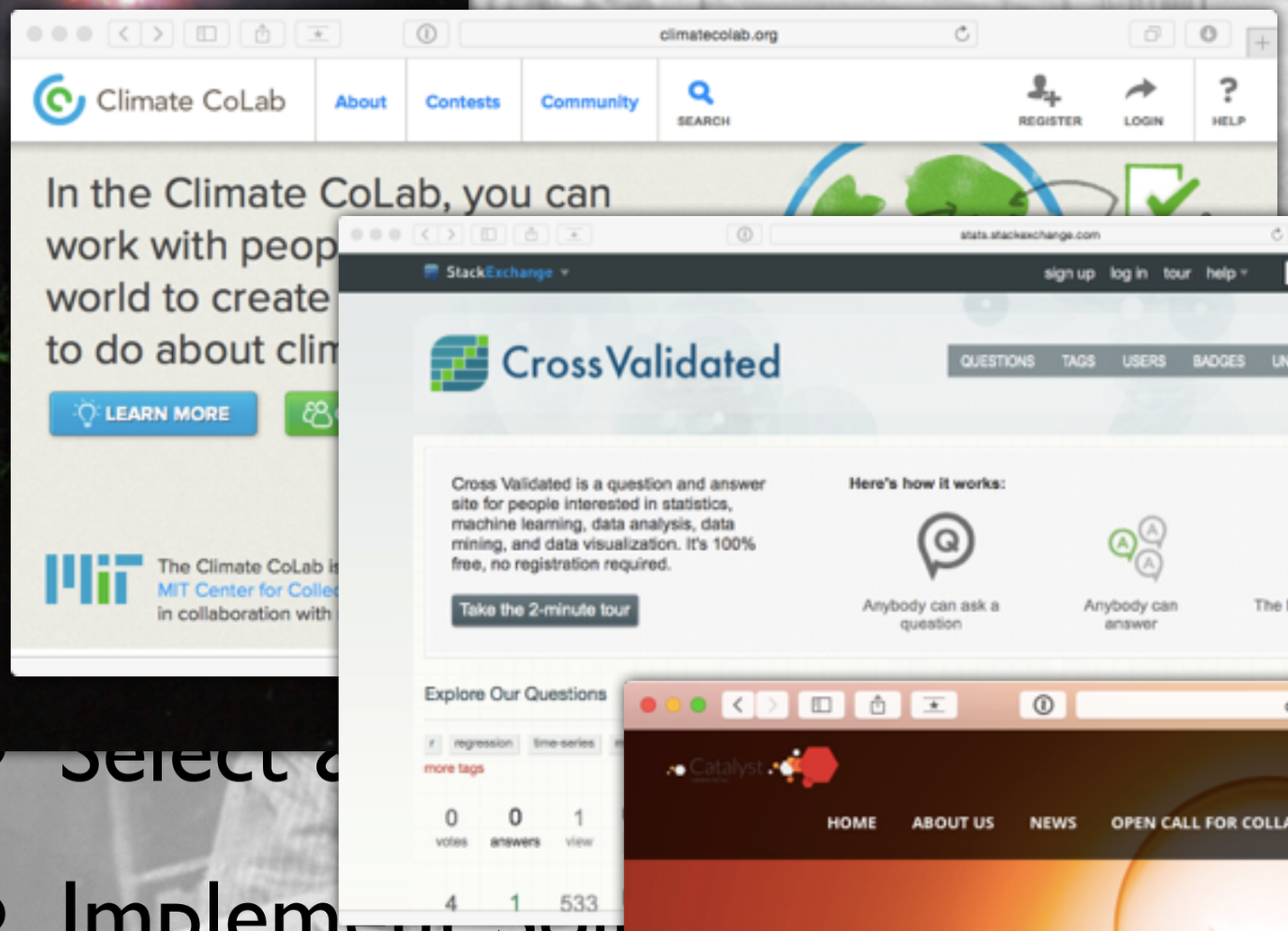
https://commons.wikimedia.org/wiki/File:Ford_assembly_line_-_1913.jpg

Citizen Scientist or Gofer?

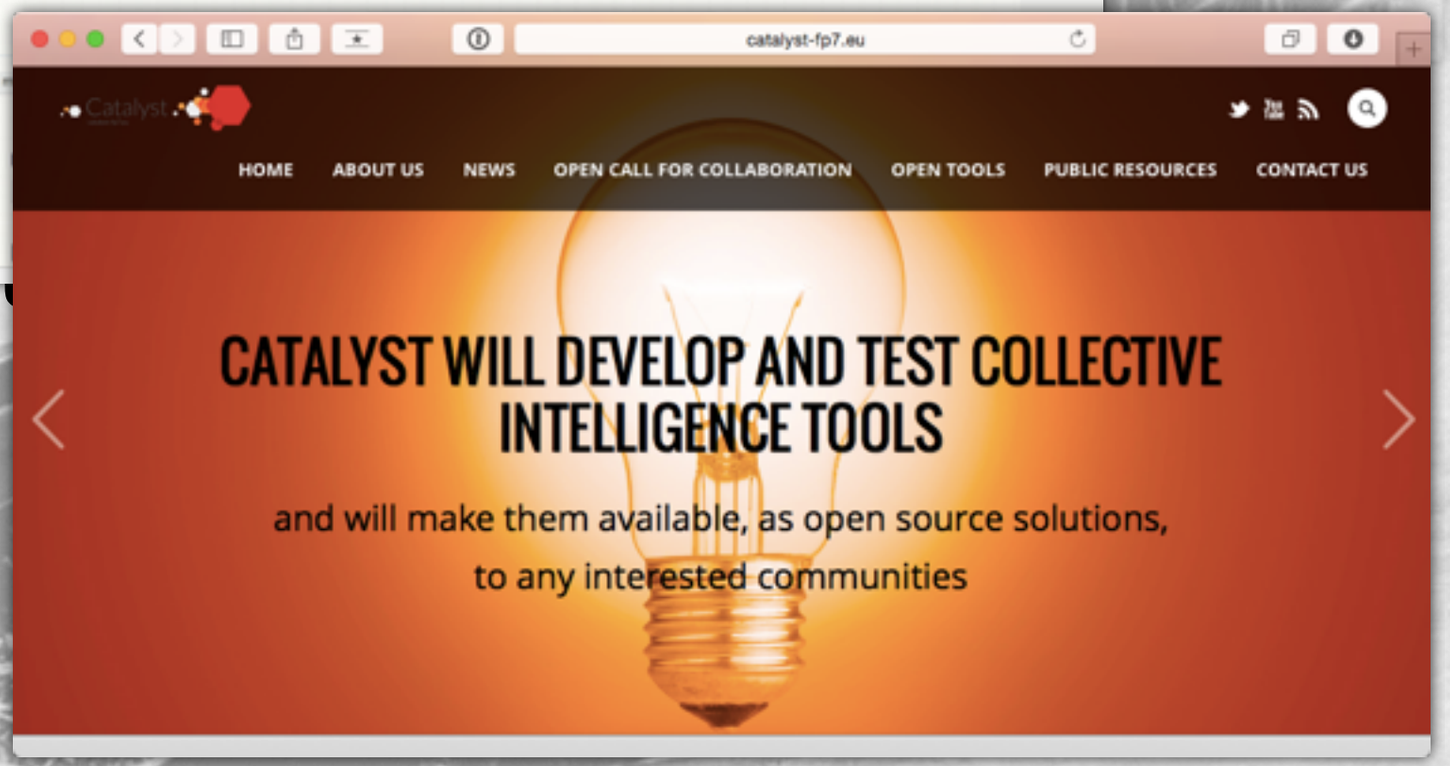
- (Formulation of a Need)
- Define the Problem
- Develop Alternatives
- Select & Design Solution
- Implement Solution
- (Maintenance)

https://commons.wikimedia.org/wiki/File:Ford_assembly_line_-_1913.jpg

cientist or Gofer?



- Select a
- Implement sol
- (Maintenance)



https://commons.wikimedia.org/wiki/File:Ford_assembly_line_-_1913.jpg

Motivational Diversity

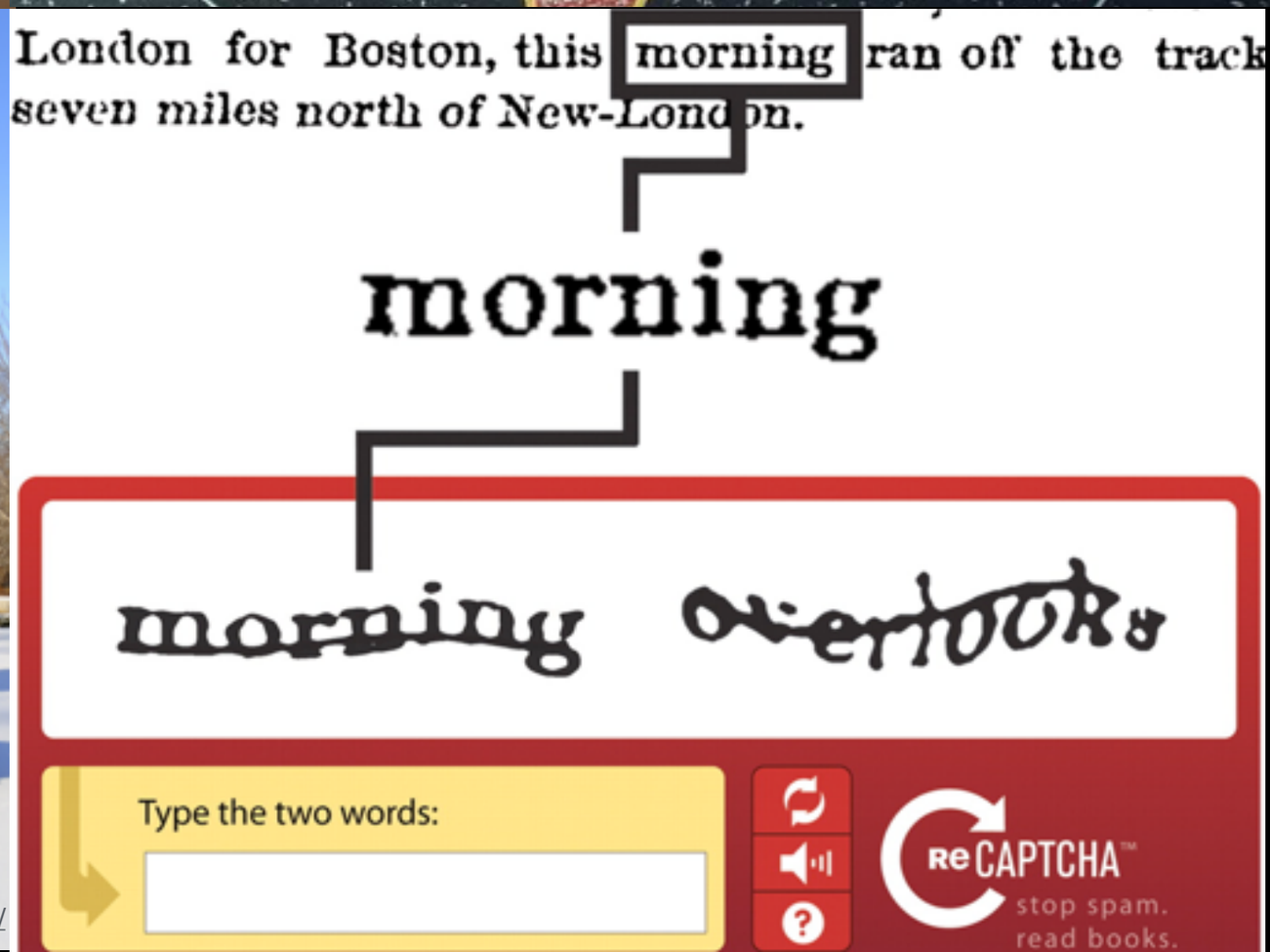






Serge Melki; http://www.flickr.com/photos/sergemelki/3199715396/

London for Boston, this morning ran off the track seven miles north of New-London.



Cognitive Diversity

By JPL (http://photojournal.jpl.nasa.gov/catalog/PIA01885) [Public domain], via Wikimedia Commons

By Alfred T. Palmer [Public domain], via Wikimedia Commons

Error Diversity

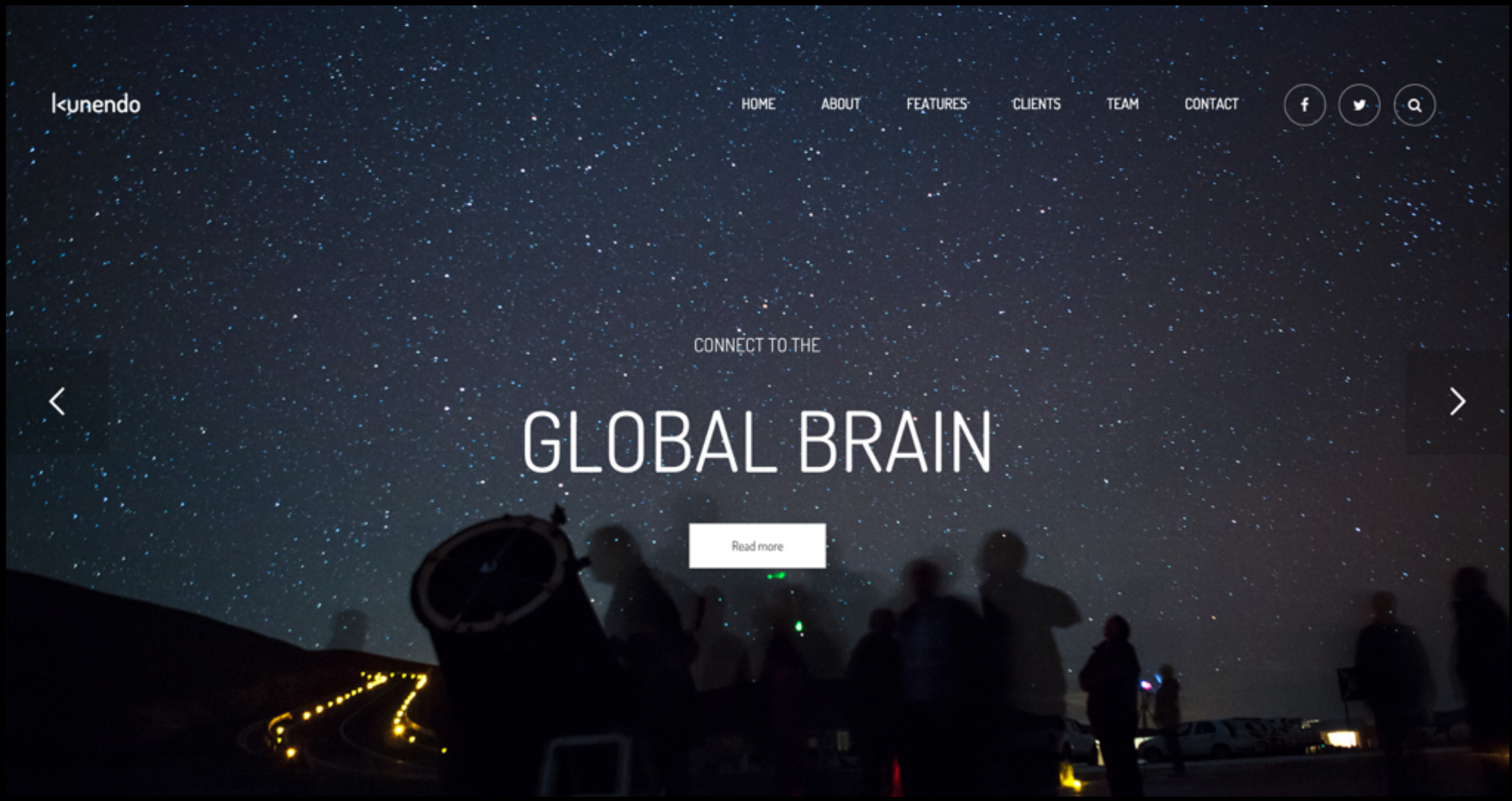


http://www.schullv.de/resources/07_geschichtelv/01_basiswissen//bilder/napoleons_retreat_from_moscow.png

Example:
Translating a Document



Minder & Bernstein, 2012


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Citizen Scientist

From Gofer to First Class Citizen

Abraham Bernstein





University of Zurich[UZH]