Frode Hegland

The Liquid Information Company

Deeper Literacy through more interactive text

The written word is
a unit of knowledge

Therefore, how richly we interact with the written word determines how richly we interact with much of our knowledge
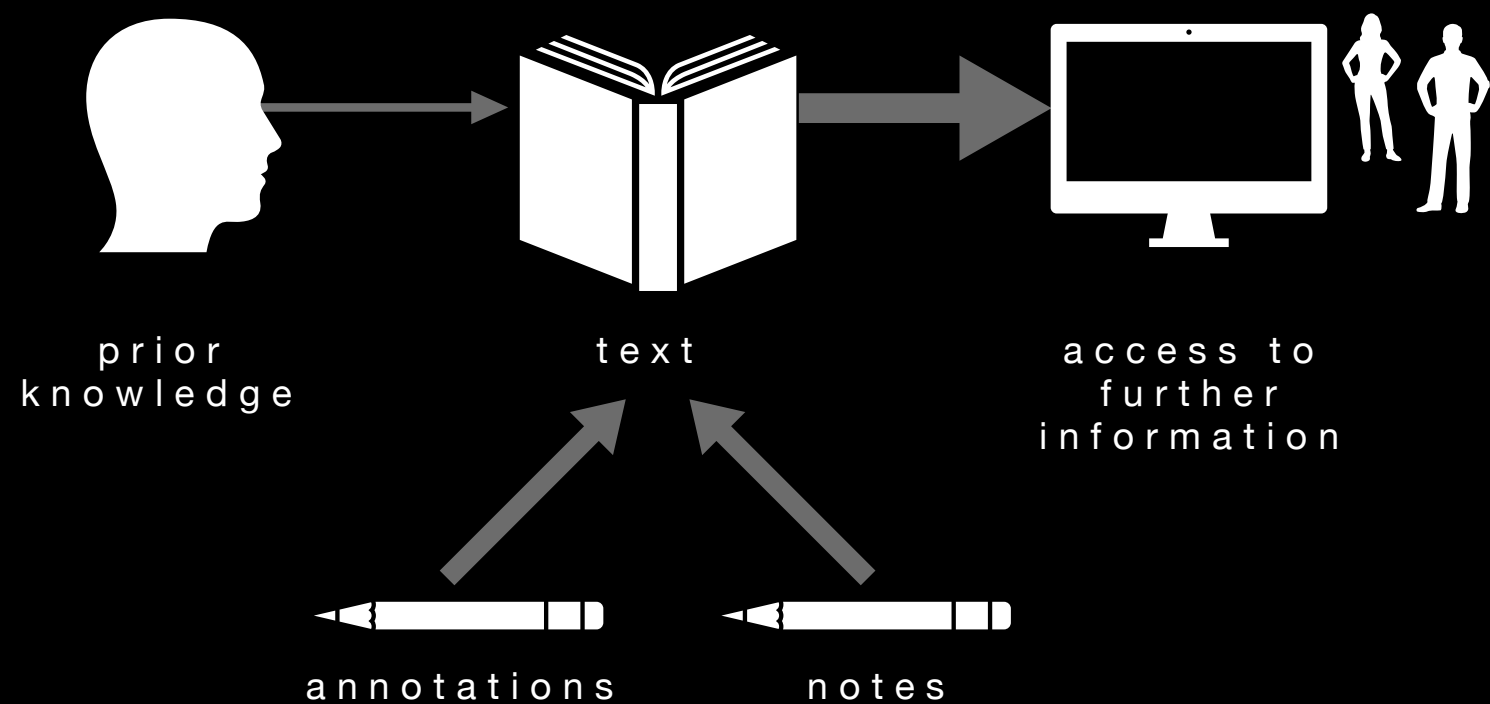
reading

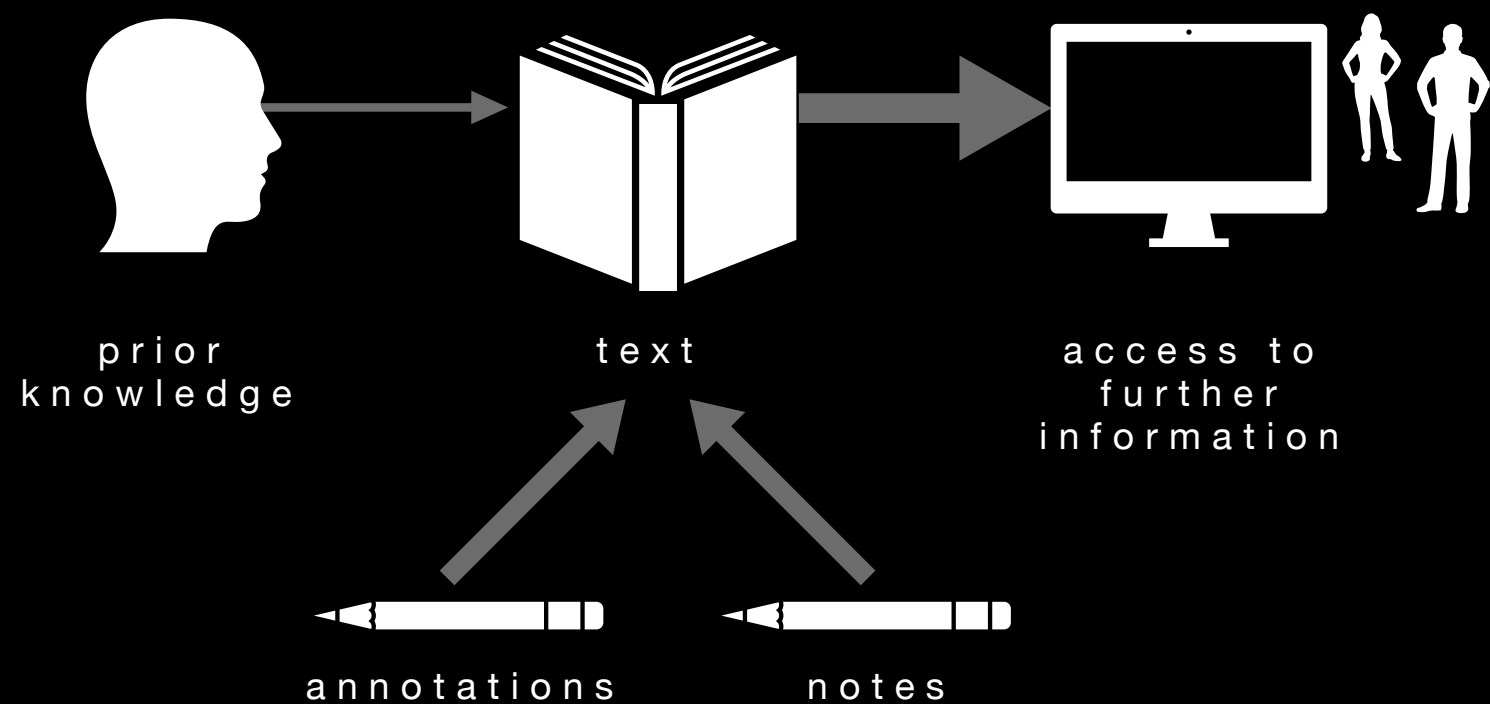riddle

reading
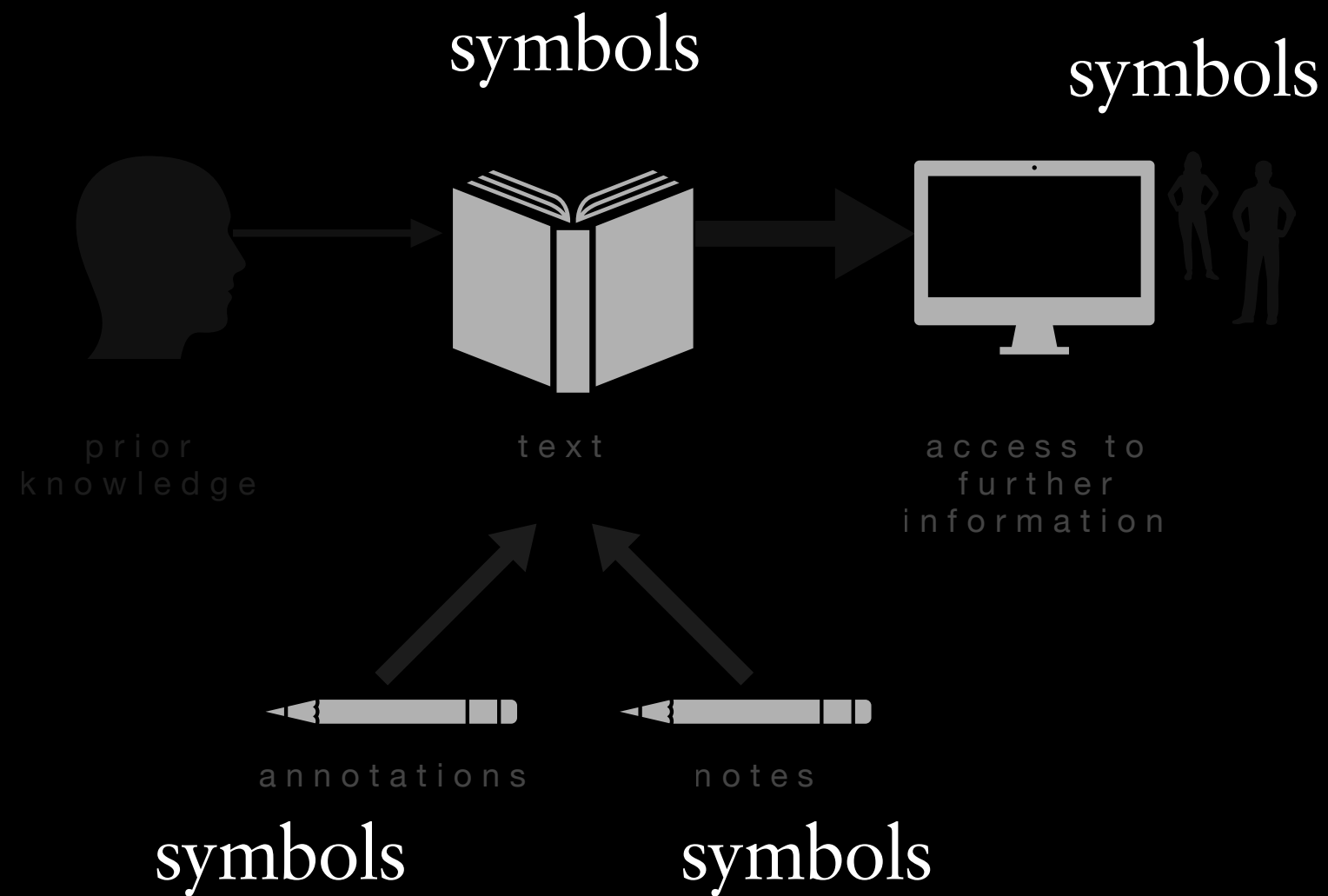
interactive process
interactive text

reading
interactive text

prior
knowledge

text

access to
further
information

annotations

notes

reading
interactive text

prior
knowledge

text

access to
further
information

annotations

notes

symbols

symbols

symbols

symbols

prior
knowledge

text

access to
further
information

annotations

notes

symbol spaces

Interact | view | address

symbols

symbols

symbols

symbols

symbol spaces

Interact | view | address

symbols

symbols
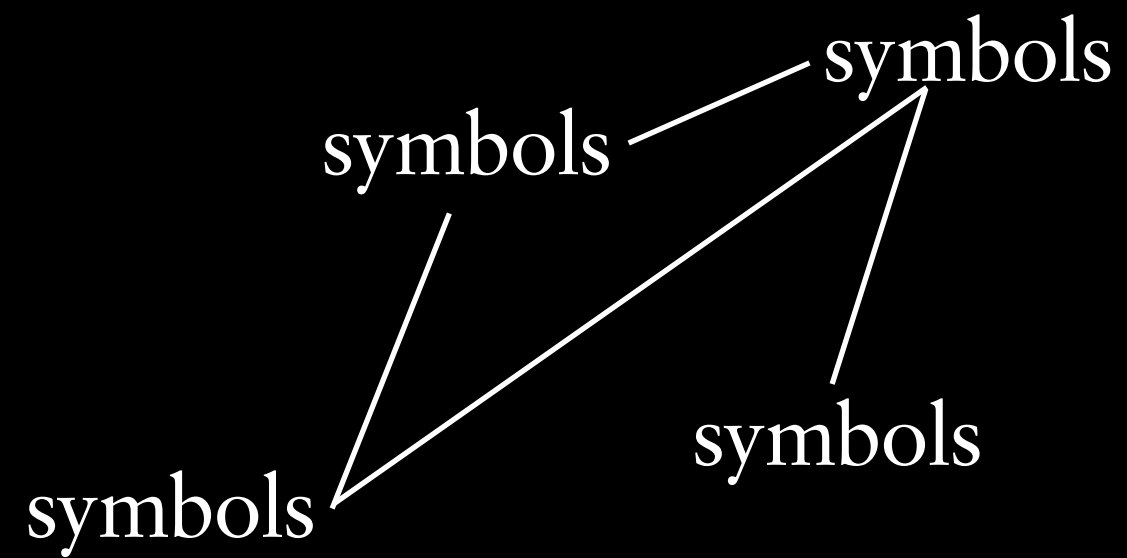
symbols

symbols

symbol spaces

Interact | view | address

Interact | view | address
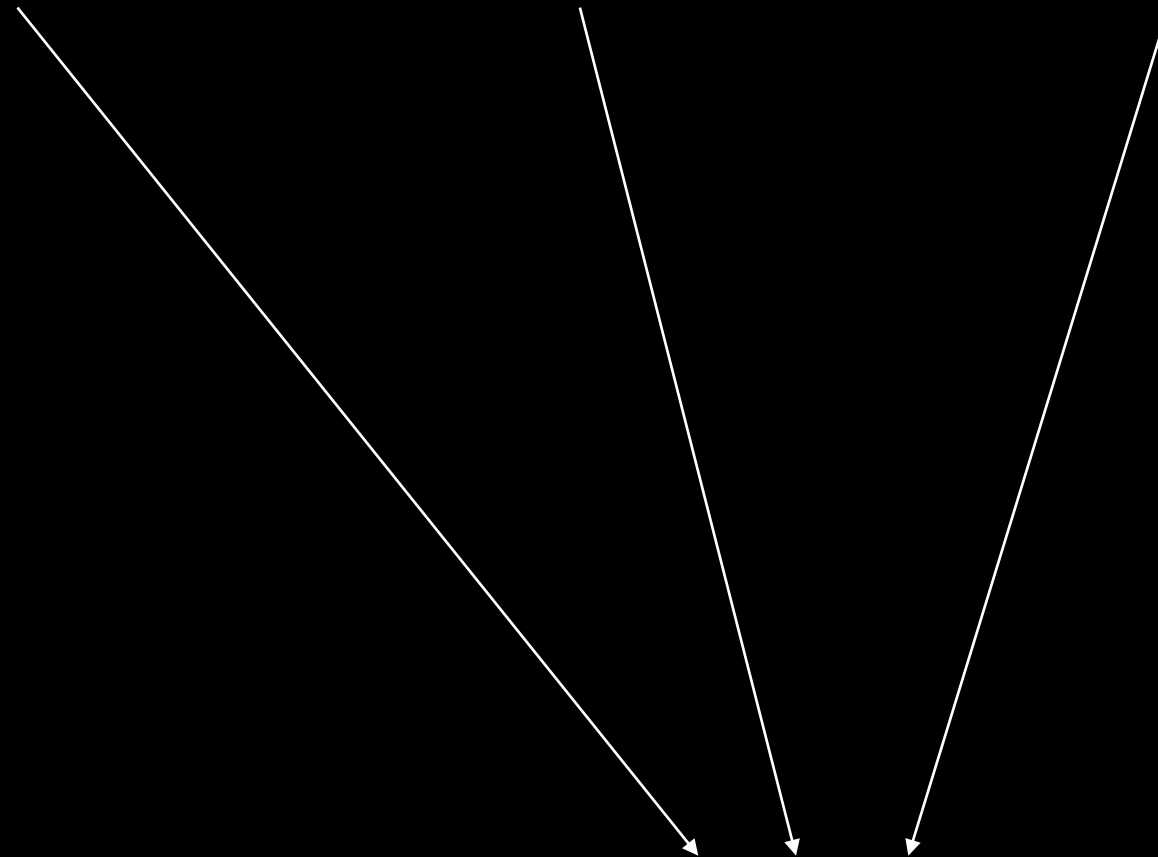
"That which is thrown together"

symbol spaces

PhD @ 50

Interact | view | address
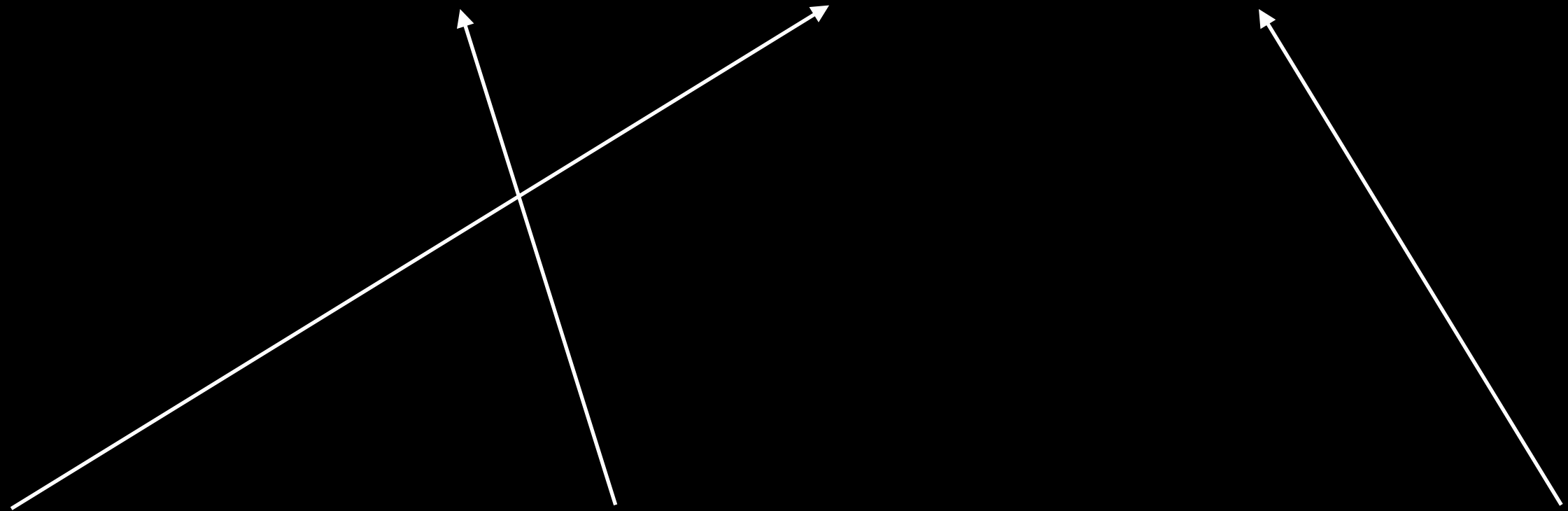
views & how to flexibly change them based on what the author wants to see

Software Projects

Liquid   Author

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Liquid

Interact with all text in macOS
(destroy fake news in half a second)

Author

Academic Word Processor
(minimalist interface, powerful tools, esp citations)

My PhD : Add a Dynamic View

Software Projects

macOS Testers needed!

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Demo @ 50
9th of December 2018

The 50th Anniversary of Doug Engelbart's Great Demo

Augmentation Research Community

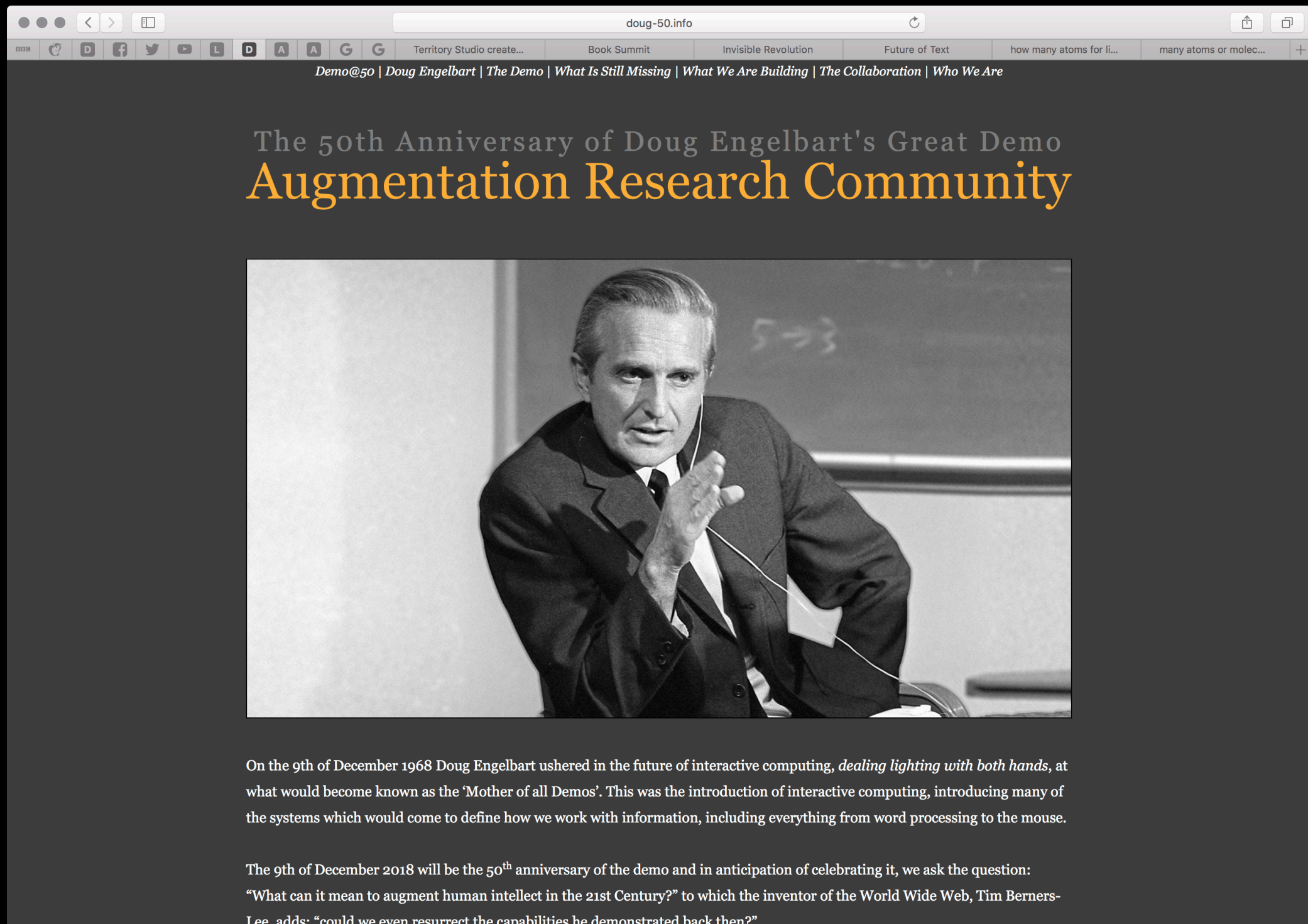On the 9th of December 1968 Doug Engelbart ushered in the future of interactive computing, *dealing lighting with both hands*, at what would become known as the 'Mother of all Demos'. This was the introduction of interactive computing, introducing many of the systems which would come to define how we work with information, including everything from word processing to the mouse.

The 9th of December 2018 will be the 50th anniversary of the demo and in anticipation of celebrating it, we ask the question: "What can it mean to augment human intellect in the 21st Century?" to which the inventor of the World Wide Web, Tim Berners-Lee, adds: "could we even resurrect the capabilities he demonstrated back then?"

We need to improve how we

augment a group's

capability to approach urgent, complex problems

to gain more rapid and better comprehension

which result in speedier and better solutions.

Furthermore, we must improve our improvement process

To contribute to this vision, we are working on building

components for a 'Dynamic Knowledge Repository' (DKR), based

on current infrastructures, which allows for richer interaction

What Is Still Missing

Advanced Linking:

  High Resolution Linking, so that a link can point to a specific sentence, paragraph or any other object within a document, not just to the document as a whole

  Implicit Links through which the user can choose to view any corpus entry the text is implicitly linked to, such as a dictionary entry or a glossary entry

  Basic 'Hyper' Characteristics where embedded objects called links can point to any arbitrary object within the document, or within another document in a specified domain of documents - and the link can be actuated by a user or an automatic process to "go see what is at the other end," or "bring the other-end object to this location," or "execute the process identified at the other end." (These executable processes may control peripheral devices such as CD ROM, video-disk players, etc.)

  Multiple Links from one place to allow the user to choose what aspect to follow

  Link Types to specify what the link points to, such as supplemental information and so on

  Backlinks & Link Databases so that the a document is aware of incoming links as well as outgoing links

  Links in Images. It is of course possible to create image maps but the current tools do not support this for non-graphics people. Doug had the example of showing a basic map where each location name could be clicked on to jump to its corresponding document. This is not quick to do today. https://youtu.be/a11JDLBXtPQ?t=395

Rich ViewSpecs (View Specifications) Allows the user to decide how to view a document, including options to show only the first sentence of every paragraph and so on:

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HyperGlossaries

Socratic Authoring

TimeBrowser

Author writes a term in a document & decides it will be useful to define it.

1) Chooses to 'Define Term'
2) Writes a short and a long description

Author can now choose to include this term in any future documents

Reader can choose to see the short definition inline in the text or click to see the longer definition

The term is also linked to a Knowledge Graph for further investigation

HyperGlossaries

Socratic Authoring

TimeBrowser

Instead of publishing a flattened document, publish with the rich additional data intact:

1) Author writes a document with clear citations and other data.
2) Publishes a PDF to:

Server: Server has access to all contents, including citations and data, which allows analysis and interaction with documents in volume.

Document: Original document is embedded inside the document for full access by anyone who uses the same authoring software + XML description for the data for any other software. Legacy software can still read the base PDF.

This delivers high-resolution addressing, rich view opportunities and link analysis

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HyperGlossaries

Socratic Authoring

TimeBrowser

Video is recorded with a real-world time-code attached to each frame.

{transcription etc. also takes place]

Users can now query based on time, Fx: *What did Bob say at 3:05 on Friday in the meeting?*

HyperGlossaries

Socratic Authoring   Partners needed!

TimeBrowser

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