

Nástroje a možnosti internetu

Organizační metafory webu

20. 10. 2023

I.

navigační problém
& nowness



Microsoft **B**  **B**™



TIP: Adjusting the Sound

To turn the sound up or down, or turn it off completely, click on "Other options" then "Advanced Features," or press Ctrl+L.

Here's a tip! To press Ctrl+L, hold down the Ctrl key and press the L key. Then release both.

Turn Off



Thanks



EXIT



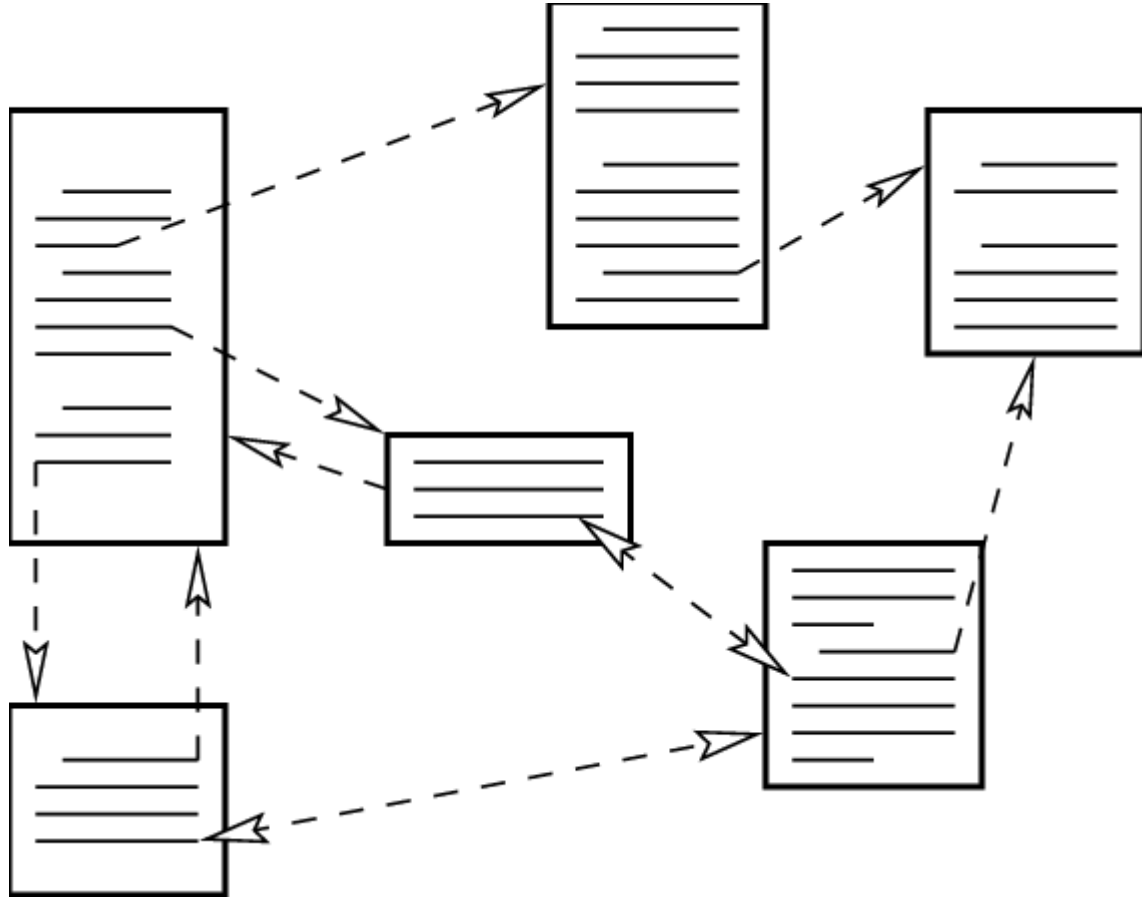
Bob Financial Guide

- Start program
- Change it

Cancel **X**



LATCH



hypertext
hypermedia

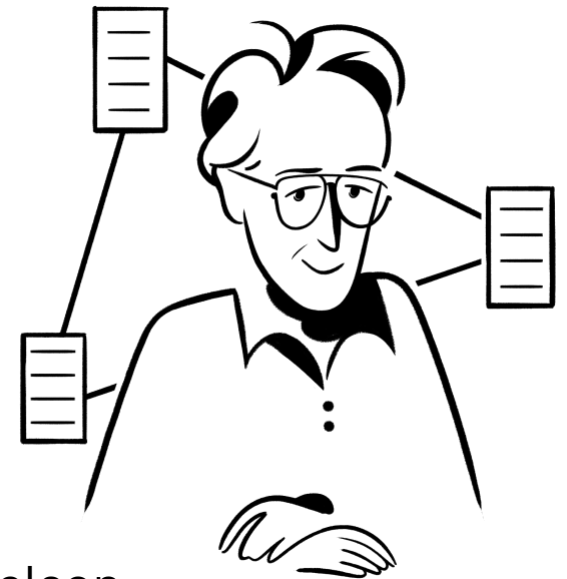
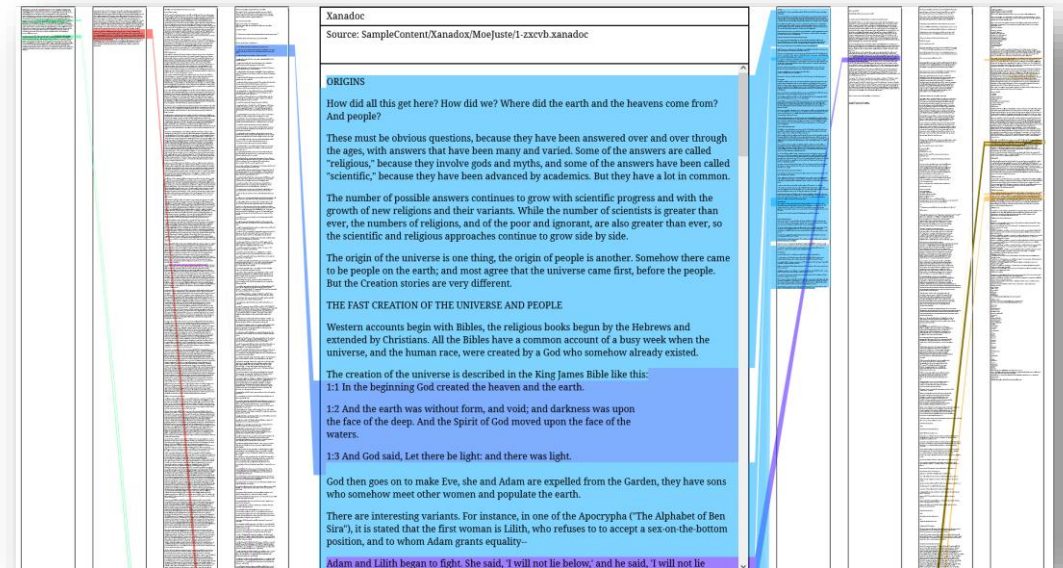
World's most delayed software released after 54 years of development



However, both of those pale in comparison to "Project Xanadu", which was released without fanfare at an event at California's Chapman University in late April. Development on Xanadu began 54 years ago, in 1960, making it the most delayed software in history.

Xanadu's developer Ted Nelson is the man who coined the term "hypertext" to describe the clickable links that were created for his project: the word lives on most prominently as the "ht" in the internet abbreviation "http".

At its simplest, Xanadu lets users build documents that seamlessly embed the sources which they are linking back to, creating, **in Nelson's words, "an entire form of literature where links do not break as versions change; where documents may be closely compared side by side and closely annotated;** where it is possible to see the origins of every quotation; and in which there is a valid copyright system - a literary, legal and business arrangement - for frictionless, non-negotiated quotation at any time and in any amount."



Ted Nelson

Přístupy k organizaci webu

- *Gopher* – adresářová struktura
- *Web* – propojená hypermédia
- *navigation problem*
- harmonie mezi propojováním a řádem

The navigation problem is becoming even more acute with the continuous growth of web sites in terms of their structure, which is becoming more complex, and their size in terms of the vast amount of information they intend to deliver. In contrast, users are not willing to invest time to learn this structure and expect transparent delivery of relevant content without delay. This problem needs to be tackled by orientation and navigation tools which improve user interaction, in analogy to the diverse set of tools ranging from road signs, the compass and map, to global positioning systems (GPS), all of which we use to orient ourselves in physical spaces.

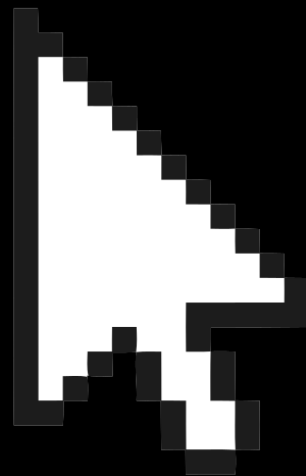


HYPertext GARDENS

Hypertext Gardens: Delightful Vistas

Mark Bernstein
Eastgate Systems, Inc.

[Into the Garden](#)
[Beyond the Navigation Problem](#)
[The Limits of Structure](#)
[Gardens and Paths](#)
[The Virtue of Irregularity](#)
[Gates and Signposts](#)
[Statuary and Follies: Punctuating the Reader Experience](#)
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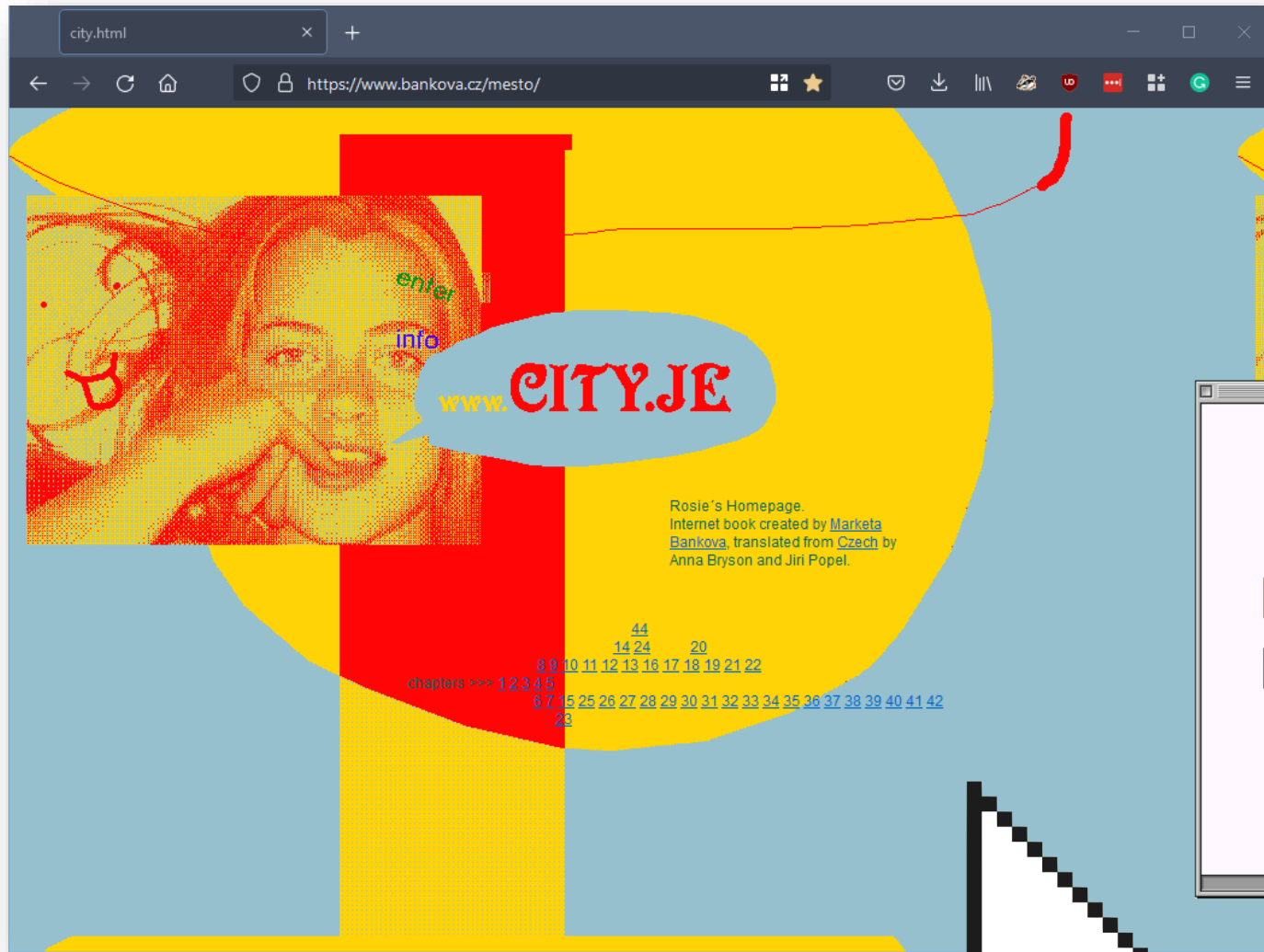


EASTGATE

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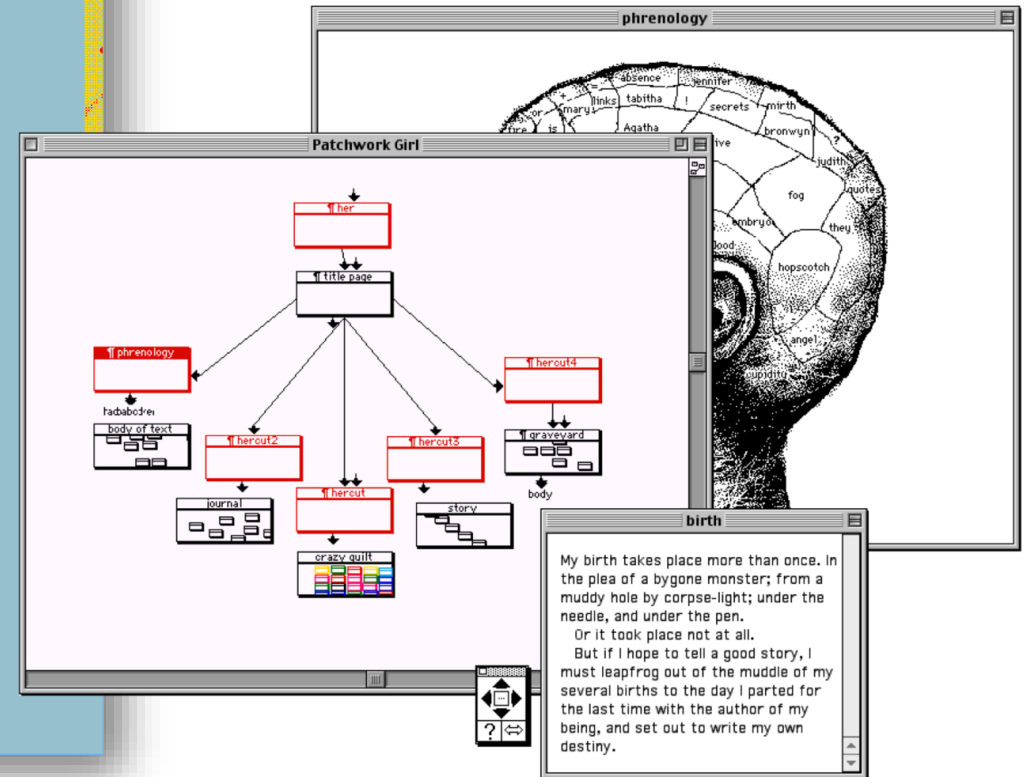
Eastgate Systems, Inc. 134 Main Street, Watertown MA 02472 USA.
Email: info@eastgate.com. Phone: (617) 924-9044 (800) 562-1638

<http://www.eastgate.com/garden/Enter.html>



Markéta Baňková (*net art*)

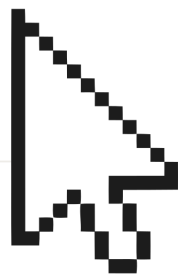
<https://www.nycmap.com/>



[afternoon, a story](#)
[Patchwork Girl](#)

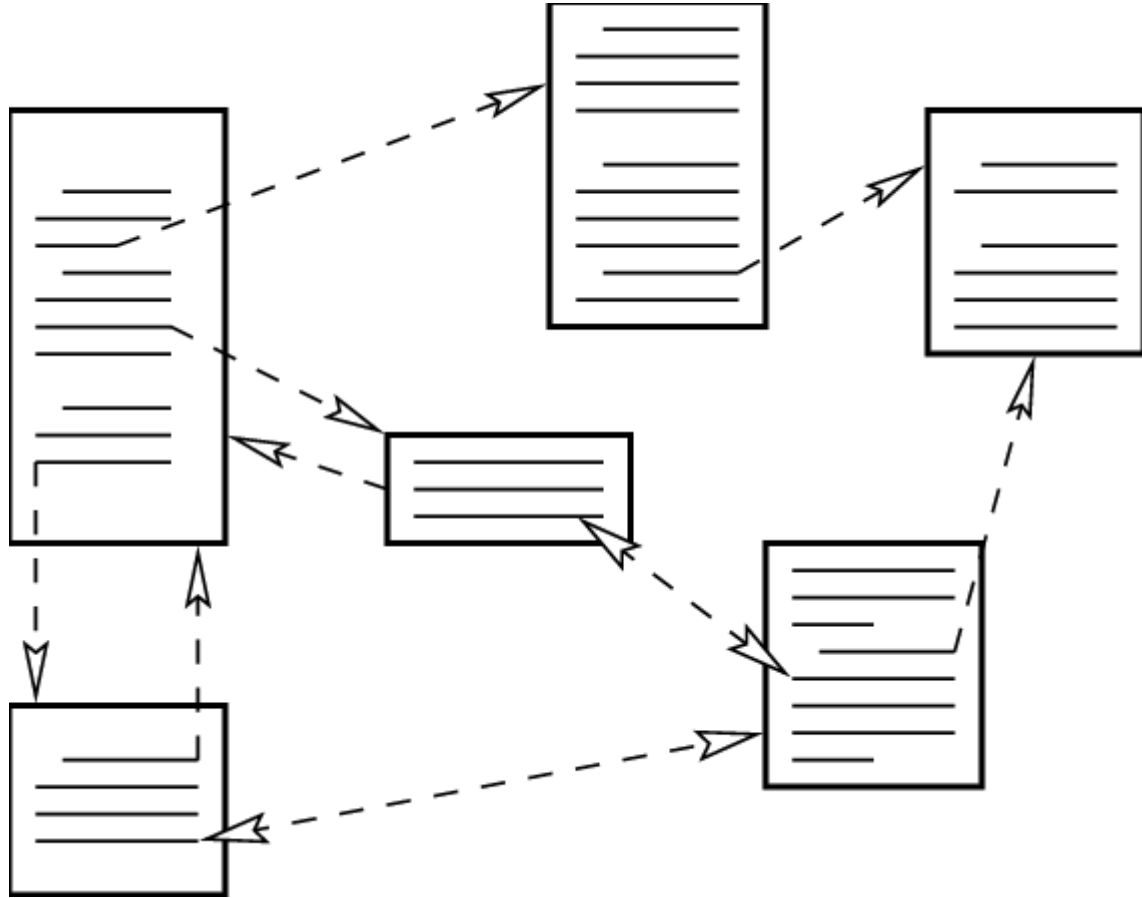


Hypertext Fiction: The Literary Genre That Was Theorized Before It Was Written



Literary theorist Roland Barthes within his book *S/Z* describes a type of writing weirdly similar to much of the content found on the internet today. The text he describes is one where “the networks are many and interact,” where “it has no beginning,” and where “we gain access to it by several entrances, none of which can be authoritatively declared to be the main.” To any beginning reader, it’s nearly obvious that he is describing a text that functions identically to the world wide web. However, there’s one small problem: *S/Z* came out over ten years before the first personal computer was even invented.

Barthes wasn’t the only one to imagine this kind of writing. Around the 70s and 80s, a new movement called poststructuralism began to gain prominence across various forms of culture, including art, philosophy, and yes, literature. It emphasized skepticism and irony, and in general it sought to push back against the idea that culture can be encapsulated by overarching narratives. Instead, poststructuralist thinkers tried to break apart these narratives, examining their influences and assumptions to learn more about the world as a whole.



hypertext
hypermedia
objevování

Co je dnes hlavním
organizačním hlediskem
webu?

Je web v nepořádku?

Hossein Derakhshan: „The web was not envisioned as a form of television when it was invented. But, like it or not, it is rapidly resembling TV: linear, passive, programmed and inward-looking.“

- internet jako knihovna → internet jako televize
- uzavřené ekosystémy → *opravdu chcete odejít z FB?*
- chronologie na úkor kurátorství/propojování

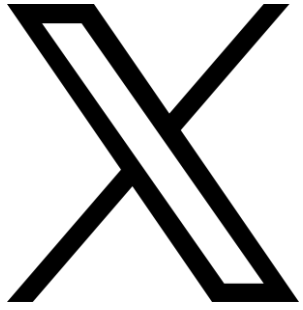
Organizační metafory webu

řeka

táborák

zahrada





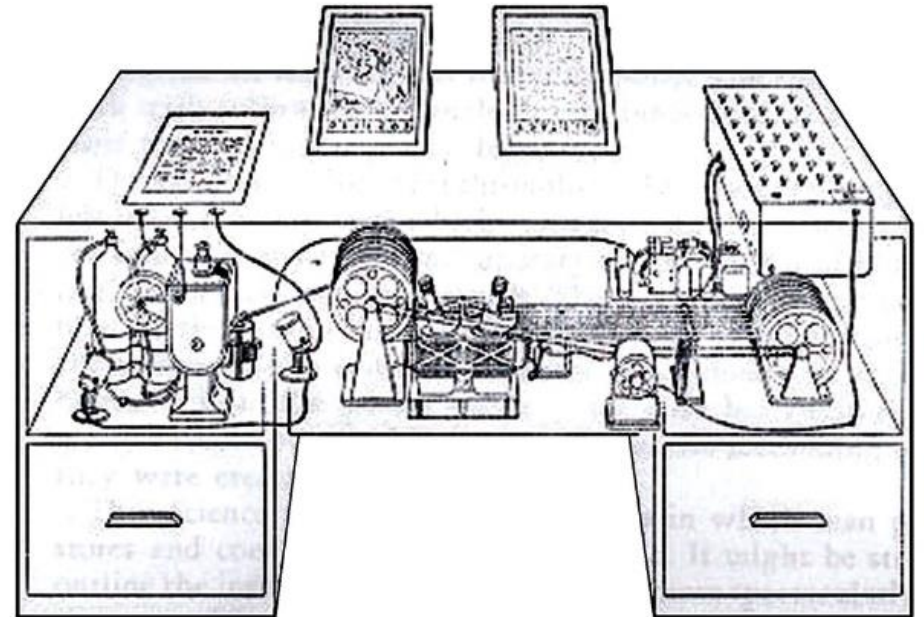




II.

web jako druhý mozek

“Consider a future device [...] in which an individual stores all his books, records, and communications, and which is mechanized so that it may be consulted with exceeding speed and flexibility. It is an enlarged intimate supplement to his memory.”



Organizace webu

- *„není třeba si nic pamatovat, všechno je on-line“*
- second brain / druhý mozek
- *„recollection in the age of forgetting“*
- Knowledge Management Systems
- *osobní informační management*

Záložkujete weby
chaoticky nebo si
v tom držíte nějaký
systém?



„And many people become ,infovores‘, force-feeding themselves endless books, articles, and courses, in the hope that something will stick. [...] How do I make what I’m consuming right now easily discoverable for my future self?“ ZDROJ

Příklady služeb

- záložkovací nástroj [Memex](#)
- sociální referenční nástroj [Hypothes.is](#)
- historie v prohlížeči [Vivaldi](#)
- archivace webu s [Conifer](#)
- referenční nástroje [Zotero](#) a [BibSonomy](#)

Zotero

Search: Title, Creator, Year

My Library

- Book Reviews
- Colonial Medicine**
- Dissertation
- Science and Empire
- Teaching
 - Mapping
 - Open Access
 - Text Mining
 - Visualization
- My Publications
- Duplicate Items
- Trash

Group Libraries

- Grant Proposal
- Research Lab
- Topic Modeling

To Read

19th century Acclimatization Aged Appetite Blood Cemetery Children Climate Colonies Competition Creoles Crossing Degeneration Diet Digestion Disease Doctors Drugs Electric Eels Empiricism Expertise Food France Geography Global Guyane Hair Indies Indigenous medicine Intemperance Language Lemonade Medicine Mortality Piment Poison Practice Professionalism Regeneration Secrets

Title	Creator	Year
Guerre, maladie, empire. Les services de santé militaires en ...	Zaugg	2016
Officiers de santé et soignantes créoles face à la fièvre jaune	Nobi	2016
The Emergence of Tropical Medicine in France	Osborne	2014
Colonial Disease, Translation, and Enlightenment: Franco-Briti...	Charters	2014
Trading in Drugs through Philadelphia in the Eighteenth Centu...	Wilson	2013
The Medicines Trade in the Portuguese Atlantic World: Acquisi...	Walker	2013
Leprosy and Slavery in Suriname: Godfried Schilling and the Fr...	Snelders	2013
Medical Experimentation and Race in the Eighteenth-century ...	Schiebinger	2013
The Circulation of Bodily Knowledge in the Seventeenth-centu...	Gómez	2013
Circulation of Medicine in the Early Modern Atlantic World	Cook and Walker	2013
Synthesis of scholarship on "medicines" to restore focus o...		
Full Text PDF		
Colonial Medical Encounters in the Nineteenth Century: The Fr...		2012
Networks in Tropical Medicine: Internationalism, Colonialism, a...		2012
Early Clinical Features of Dengue Virus Infection in Nicaraguan...		2012
Medicine in an age of commerce and empire: Britain and its tr...		2010
Finding the "Ideal Diet": Nutrition, Culture, and Dietary Practic...		2009
Battles of the Self: War and Subjectivity in Early Modern France...	Whitch...	2008
The Experiments of Ramón M. Termeyer SJ on the Electric Eel ...	de Asúa	2008
Psychiatry and Empire	Mahone and Vaughan	2007
Medicine and the Market in England and Its Colonies, C.1450-...	Jenner and Wallis	2007
Matters of exchange: c... and science in the...	Cook	2007
A Horrible Tragedy	Rothschild	2006
"Neither of meat... with": ...	Chakrabarti	2006
Transnational... and rac...	Neill	2005
Variolation, V... Coloni...	Brimnes	2004
"Syphilis, O... ions ...	Proschan	2003
Choosing Sc... Lav...	Guillemin	2002
Madness and... Frenc...	Keller	2001
The Colonial... in the ...	McClellan and Rego...	2000
From medical a... ar and pl...	Harrison	2000
Disease and Empi... s in the Co...	Bynum	2000
Climate & Geop... ment and Bri...	Harrison	1000

Info Notes Tags Related

Item Type Journal Article

Title Circulation of Medicine in the Early Modern Atlantic World

Author Cook, Harold J.

Author Walker, Timothy D.

Abstract The search for powerful drugs has caused people and commodities to move around the globe for many centuries, as it still does...

Publication Social History of Medicine

Volume 26

Issue 3

Pages 337-351

Date 2013/08/01 y m d

Series

Series Title

Series Text

Journal Abbr Soc Hist Med

Language en

DOI 10.1093/shm/hkt013

ISSN 0951-631X

Short Title

URL https://academic.oup.com/shm/article/26/3...

Accessed 1/24/2018, 10:17:12 AM

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Modified 1/24/2018, 11:50:15 AM

TIP!



← → C https://lareviewofbooks.org/article/neoliberal-tools-archives-political-history-digital-humanities/

LARB NEW TO LARB? ARCHIVE SECTIONS CHANNELS ABOUT SIGN IN DO Public

Neoliberal policies and institutions value academic work that produces findings immediately usable by industry and that produces graduates trained for the current requirements of the commercial workplace. In pursuit of these goals, the 21st-century university has restructured itself on the model of the corporate world, paying consultants lavish fees, employing miserably paid casual laborers, and constructing a vast new apparatus of bureaucratic control. The humanities are, in their traditional form, less amenable to such restructuring than other disciplines, relying on painstaking individual scholarship and producing forms of knowledge with less immediate economic application. By providing a model for humanities teaching and research that appears to overcome these perceived limitations, Digital Humanities has played a leading role in the corporatist restructuring of the humanities.

What Digital Humanities is *not* about, despite its explicit claims, is the use of digital or quantitative methodologies to answer research questions in the humanities. It is, instead, about the promotion of project-based learning and lab-based research over reading and writing, the rebranding of insecure campus employment as an empowering “alt-ac” career choice, and the redefinition of technical expertise as a form (indeed, the superior form) of humanist knowledge. This is why Digital Humanities is pushed far more strongly by university administrators than it is by scholars and students, who increasingly find themselves pressured to redirect their work toward Digital Humanities. In what follows, we focus on the ways that Digital Humanities scholarship has been imagined and justified by key figures, and on how the rationale for Digital Humanities has complemented and supported the transformation of higher education. While many will be able to say, with some justification, “But that’s not *my* Digital Humanities!” what we discuss here is the Digital Humanities that is helping to transform the academy, because *this* is the Digital Humanities that has proved itself so useful to university administrators and to funding bodies.

10 What Digital Humanities is not about, despite its explicit claims, is the use of digital or quantitative methodologies to answer research questions in the humanities

While there are many examples of computational methodologies to answer traditional humanities research questions, I will just post this: [Can You Model That? Applications of Complex Systems Simulation to Explore the Past](#). Or is archaeology not part of the Humanities?

2 gregory_palermo May 6

What Digital Humanities is not about, despite its explicit claims, is the use of digital or quantitative methodologi- ... More

It can be about the use of quantitative technologies to answer research questions in the humanities, but doesn't have to be. It can be project-based and lab-based, but it doesn't have to be. And if it is, that doesn't mean it is not about reading or writing.

11 MartinPaulEve May 5

despite its explicit o

False consciousness. You say that DH scholars have made explicit claims about what constitutes a humanities research question with which you disagree. Again, this is just so abstract and hand waving that it's hard to discuss.

MartinPaulEve May 5

digital or quantitative methodologies to answer research questions in the humanities

So Matt Jockers (in Macroanalysis), Franco Moretti, Jim English, and others are not answering humanities research questions with their computational approaches? I thought that knowing about patterns through texts, their similarities to other works, their spatial geographies and other elements were perfectly valid humanities questions.

66

TIP!

Start Page

Search or enter an address

Technology + Bookmarks History

February, 2017

This Month < > List Day Week Month

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		1 502 views 329 pages vg.no linkedin.com wired.com	2 20 views 18 pages vg.no chrome-extension://... 3dhubs.com	3 107 views 71 pages vivaldi.com shop.prusa3d.com forum.vivaldi.net	4 196 views 150 pages trump.steinar.io behance.net google.no	5 133 views 97 pages myfonts.com apple.no typeoff.de
6 79 views 49 pages instagram.com octopi.local shop.baugasm.com	7	8 42 views 33 pages forum.vivaldi.net google.com login.vivaldi.net	9 3 views 2 pages meetup.com octopi.local	10 1 view 1 page octopi.local	11 81 views 71 pages shop.prusa3d.com octopi.local github.com	12
	14	15	16 419 views 300 pages vivaldi.com prusa3d.com critic.viv.int	17 100 views 73 pages octopi.local vivaldi.com colorfabb.com	18 126 views 102 pages support.colorfabb.co... plus.google.com bugs.vivaldi.com	
	21	22 14 views 12 pages file:///Users/atlemo/D... octopi.local e3d-online.com	23 333 views 118 pages vg.no unroll.me	24 185 views 114 pages shop.prusa3d.com octopi.local facebook.com	25 336 views 216 pages dagbladet.no facebook.com file:///Users/atlemo/D...	26 66 views 10 pages shop.prusa3d.com octopi.local dagbladet.no
28 9 pages file:///Users/atlemo/D... shop.prusa3d.com octopi.local	3 views 2 pages octopi.local shop.prusa3d.com					

Entries

▼ Wednesday, February 1, 2017 502

- 22:07 Forsiden - VG 21
- 19:16 Moving Patient Data Is Mes...
- 19:15 WIRED
- 19:15 WIRED
- 19:13 UPS: Tracking Information
- 15:53 https://www.google.no/url?s...
- 15:53 https://www.google.no/sear...
- 15:53 https://www.google.no/sear...
- 15:52 general | Sliced Bread Sla... 2
- 15:52 slackbot | Sliced Bread S... 2
- 15:52 General Banter Podcast | Fr...
- 15:52 https://www.google.no/url?s...
- 15:44 Whois Lookup & IP | Whois...
- 15:44 whois domain - Google-søk
- 15:44 whois domain - Google-søk
- 15:43 WHOIS Search, Domain Na...
- 15:43 WHOIS Search, Domain Na...
- 15:43 Steinar Bragi Sigurðarson - ...
- 15:43 Installing a Gitlab Docker im...
- 15:41 https://www.google.no/url?s...
- 15:41 https://www.google.no/sear...
- 15:41 https://www.google.no/sear...
- 15:41 https://www.google.no/sear...
- 15:41 sliced bread - Google-søk

2/1/2017 — 2/4/2017

Browsing Activity

Page Views: 825
Pages: 562

Link Transition Type

Top Domains of 155 Total

- www.google.no 112
- listen.tidal.com 56
- www.behance.net 46

Hypertextové poznámky

- [Zettelkasten](#), wiki, Markdown atp.
- > jiné přístupy k *rozpomínání* na webu

„The Garden is the web as topology. The web as space. It’s the integrative web, the iterative web, the web as an arrangement and rearrangement of things to one another. Things in the Garden don’t collapse to a single set of relations or canonical sequence, and that’s part of what we mean when we say “the web as topology” or the “web as space”. Every walk through the garden creates new paths, new meanings, and when we add things to the garden we add them in a way that allows many future, unpredicted relationships“ – [Mike Caulfield](#)

100 The Garden


A collection of essays, notes, and half-baked explorations I'm always tending to.

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 [Talk: The Expanding Dark Forest and Generative AI](#)


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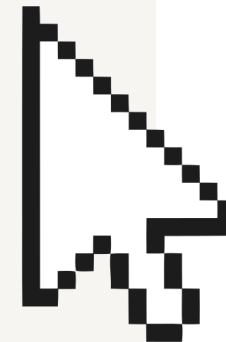
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 [Command K Bars](#)

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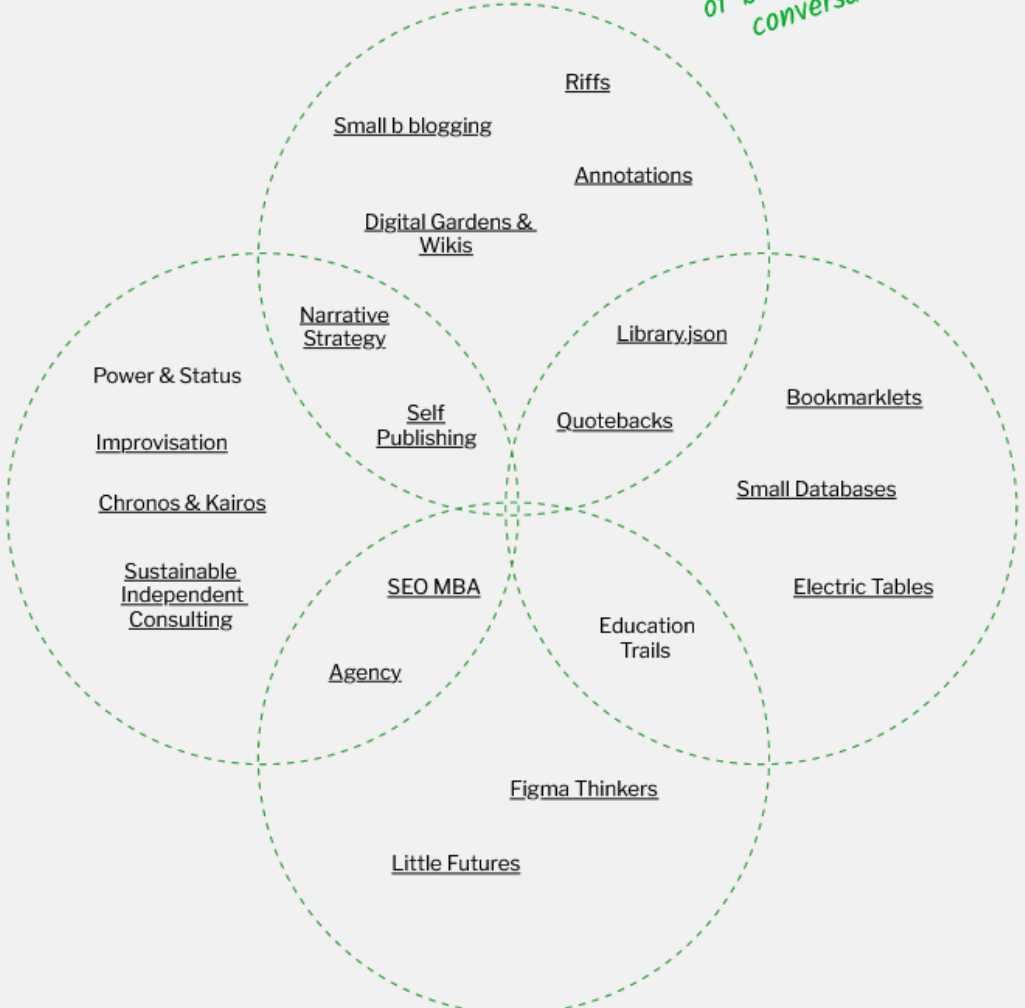
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PATTERN • ABOUT 1 YEAR AGO



How do you build a sustainable indie consulting practice?

CONSULTING



NETWORKED WRITING

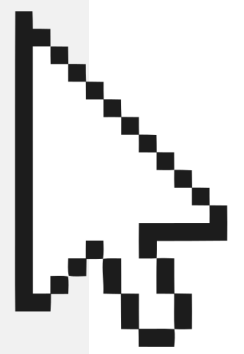
Writing as connection, the unit of blogging is the conversation

DIGITAL BRICOLAGE

I've always dreamed of using the web as a TEXTURE

NETWORKED EDUCATION

How do we use the internet as a space for learning?





THIS IS THE WEBSITE of **Gwern Branwen**. I write about psychology, statistics, and technology. I am best known for work on the [darknet markets](#) & [Bitcoin](#), [blinded self-experiments](#), [dual n-back](#) & [spaced repetition](#), and [anime neural networks](#).

For information about my site's philosophy, method, traffic statistics, and implementation, see the [About page](#); for information about myself, my use of other websites, and contact information, see the [Links page](#); for information about new pages, see the [Changelog](#); to receive updates, news, & reviews, [subscribe](#) to the newsletter ([archives](#)).

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✦ REDDIT

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- ✦ [Generating MIDI Music With GPT-2](#)

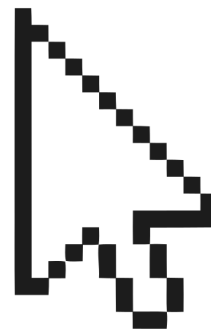
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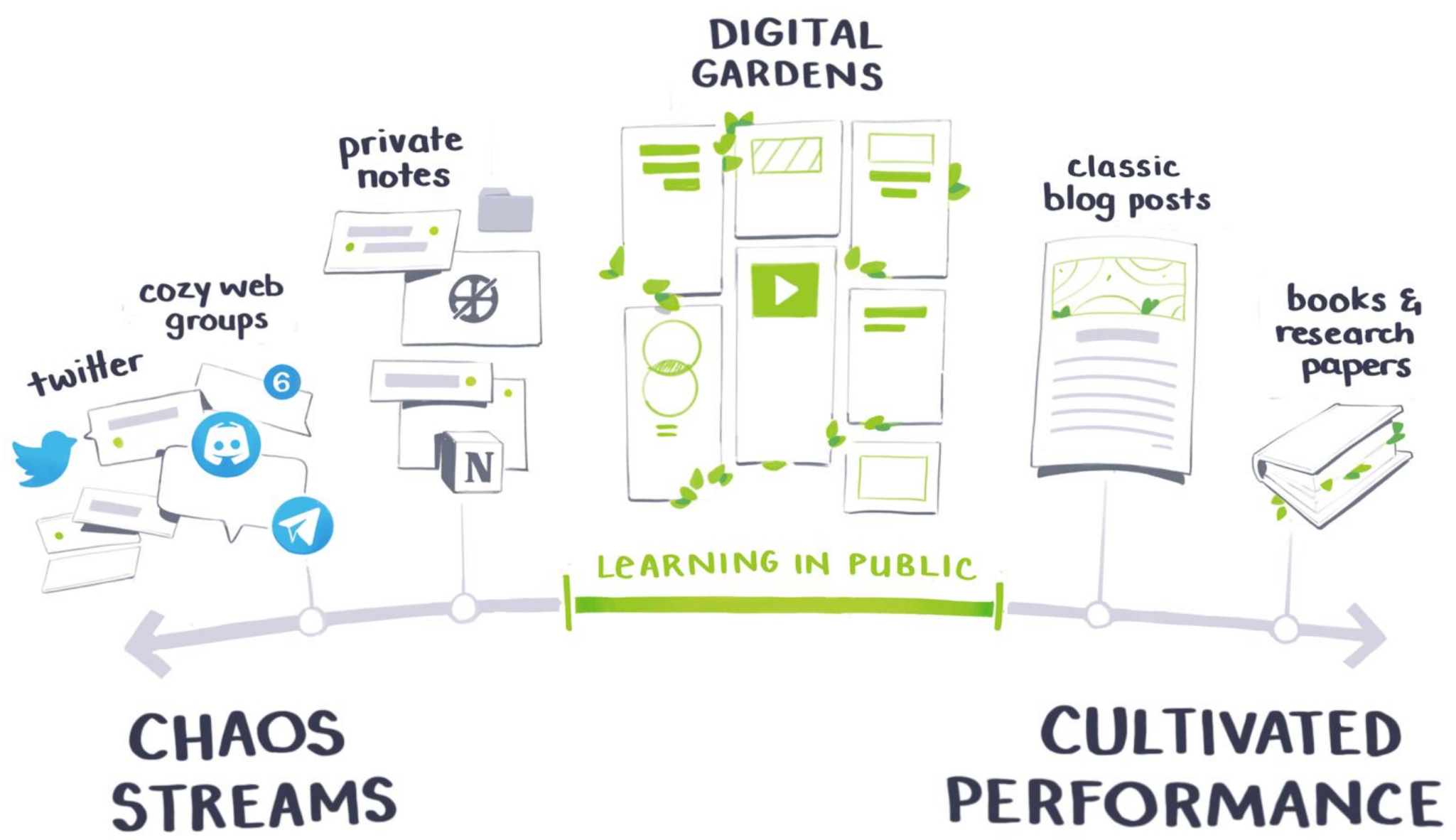
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- ✦ [PALM: Hand Detection/Crops](#)
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DIGITAL GARDENS

private notes

classic blog posts

books & research papers

twitter

cozy web groups

LEARNING IN PUBLIC

CHAOS STREAMS

CULTIVATED PERFORMANCE

Digitální zahrady

- *předchůdci*: osobní wiki
- např. [Tiddlywiki](#)
- *bliki* – blog a wiki (cca 2003)

- [double loop](#)
- [Digital Gardeners](#)
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The screenshot displays the Polar reading application interface. On the left, there is a sidebar with navigation icons. The main content area shows a document titled "Using Restriction Enzymes to Make a Recombinant DNA Plasmid". The document text includes:

Gene cloning is useful for two basic purposes: to make many copies of, or amplify, a particular gene and to produce a protein product from it (see Figure 20-4). Researchers can isolate copies of a cloned gene from bacteria for use in basic research or to endow another organism with a new metabolic capability, such as pest resistance. For example, a resistance gene present in one crop species might be cloned and transferred into plants of another species. Such organisms are called **genetically modified**, or **GM** for short; they will be discussed later in the chapter.) Alternatively, a protein with medical uses, such as human growth hormone, can be harvested in large quantities from cultures of bacteria carrying a cloned gene for the protein. (We'll describe the techniques for expressing cloned genes later.) Since one gene is only a very small part of the total DNA in a cell, the ability to amplify such rare DNA fragments is crucial for any application involving a single gene.

Using Restriction Enzymes to Make a Recombinant DNA Plasmid

Gene cloning and genetic engineering generally rely on the use of enzymes that cut DNA molecules at a limited number of specific locations. These enzymes, called **restriction endonucleases**, or **restriction enzymes**, were discovered in the late 1940s by biologists doing basic research on bacteria. Restriction enzymes protect the bacterial cell by cutting up foreign DNA from other organisms or phages (see Concept 19.2).

Hundreds of different restriction enzymes have been identified and isolated. Each restriction enzyme is very specific, recognizing a particular short DNA sequence, or **restriction site**, and cutting both DNA strands at precise points within this restriction site. The DNA of a bacterial cell is protected from the cell's own restriction enzymes by the addition of methyl groups (-CH₃) to adenines or cytosines within the sequences recognized by the enzymes.

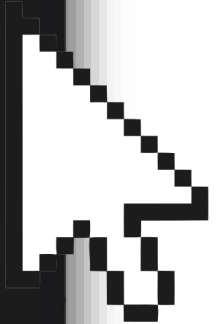
The diagram illustrates the process of creating a recombinant DNA plasmid. It shows a bacterial plasmid with a restriction site (EcoRI) and a DNA fragment with complementary sticky ends. The process involves:

- Restriction enzyme cuts the sugar phosphate backbones at each amino.
- DNA fragments from another source are added. Some cutting of sticky ends produces various combinations.
- DNA fragments from different sources are added. Some cutting of sticky ends produces various combinations.
- DNA ligase seals the strands.

The final product is a recombinant plasmid. The diagram also shows the formation of a recombinant DNA molecule from a linear DNA fragment and a plasmid.

Annotations on the right side of the interface include:

- Filter annotations by text
- Use previous conversations
- DNA ligase seals the strands.
- Recombinant DNA molecule
- Recombinant plasmid
- DRAG IT! The restriction enzyme will recognize the sequence 5'-GAATTC-3', cutting between the two A's. Draw the double-stranded molecule before and after the enzyme cuts it.
- a minute ago
- Gene cloning and genetic engineering generally rely on the use of enzymes that cut DNA molecules at a limited number of specific locations. These enzymes, called restriction endonucleases, or restriction enzymes.
- a few seconds ago
- Each restriction enzyme is very specific, recognizing a particular short DNA sequence, or restriction site, and cutting both DNA strands at precise points within this restriction site.
- a minute ago





Obsidian

https://obsidian.md

OBSIDIAN

Pricing Mobile Publish Sync Community Account

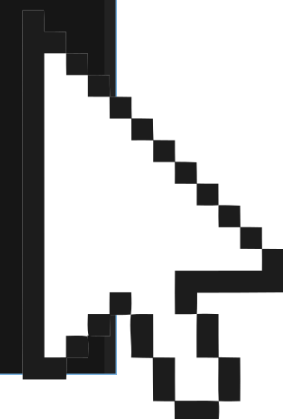
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I will report how strongly I hold my beliefs, always reserving the right to be wrong and change my mind.

I will report how much experience I have in the topic, by disclosing how much work I have done so far on it and linking to others who will know more.

I will link to further resources so that readers can discover influencing and contrasting opinions from the original source.

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I will reward feedback by listening and immediately correcting things I got wrong.

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Doplnění: přístupnost webu




- dobrý web je přístupný
- mnoho bariér
- musí to řešit i knihovny!
- je to dané i zákonem
- [WCAG 2.2](#)

Google -> Tab

„Access by everyone regardless of disability is an essential aspect.“

FriendlyVox - Ozvučený portál, k: x

cz.friendlyvox.com/fvapp-1.901.9/mvc/navazat-na-extension?vers=fvapp-1.901.9&vers=fvapp-1.900.7&vers=fvapp-1.901.5#refresh




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Rozšíření FriendlyVox není nainstalováno. Instalaci doplňku není možné ozvučit. Požádejte o asistenci vidícího člověka nebo použijte očečítač. V případě, že si s instalací neporadíte, pomohou Vám pracovníci místního TyfloCentra, nebo se obraťte na Nadační fond FriendlyVox. Neozvučenou instalaci doplňku zahájíte stiskem mezerníku.

TENTO WEB POUŽÍVÁ, PODOBNĚ JAKO JINÉ WEBY, SOUBORY COOKIE. TYTO SOUBORY NÁM UMOŽŇUJÍ VYLEPŠOVAT TYTO WEBOVÉ STRÁNKY, ZLEPŠOVAT JEJICH FUNKCIONALITU A POSKYTOVAT VÁM TAK RELEVANTNĚJŠÍ SLUŽBY JAK NA WEBU, TAK I PROSTŘEDNICTVÍM DALŠÍCH MÉDIÍ. PROCHÁZENÍM WEBU VYJADRŮJETE SOUHLAS S JEJICH POUŽÍVÁNÍM. [VÍCE INFORMACÍ](#)

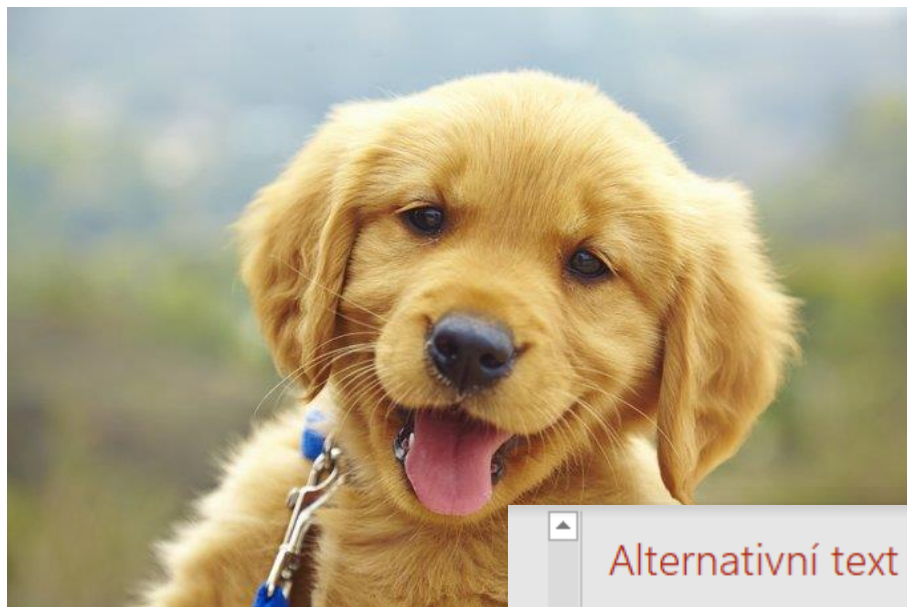
ZÁSADY ZPRACOVÁNÍ OSOBNÍCH ÚDAJŮ

www.friendlyvox.info

provozuje  TurboConsult

Textová alternativa

```
<img src=„obrazek.jpg" alt=„Pejsek">
```



Alternativní text ✕

Jak byste tento objekt a jeho kontext popsali někomu, kdo je nevidomý?
(Doporučujeme napsat 1 až 2 věty.)

Obsah obrázku pes, exteriér, tráva, hnědá

Popis byl vytvořen automaticky

Označit jako dekorativní ?

trázních filmů. A to jsem se tak snažil,
dispozici seznam i s odkazy, kde se




IMAGE EDITOR ✕

Filename (Optional)

Záběr z filmu Symphony 42

Security Check

Enter both words below, separated by a space.
Can't read the words below? Try different words or an audio captcha.

gs? ≠ ∅ *Descuti*

Text in the box: What's this?

Přístupnost webu

- možná automatizace
- ale co třeba grafy?

ship



dog



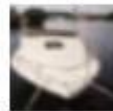
deer



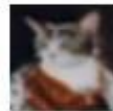
bird



ship



cat



dog



dog



horse



horse



ship



frog



bird



ship



bird



cat



automobile



ship



deer



truck



dog



deer



automobile



horse

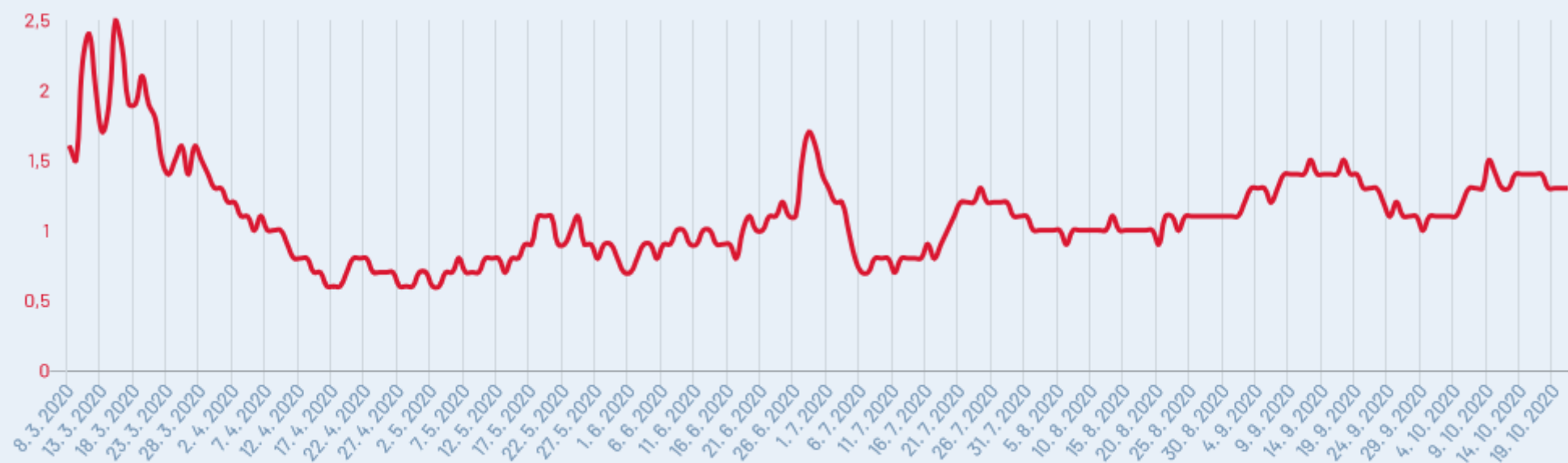


R-číslo: ukazatel, jakou rychlostí se epidemie šíří

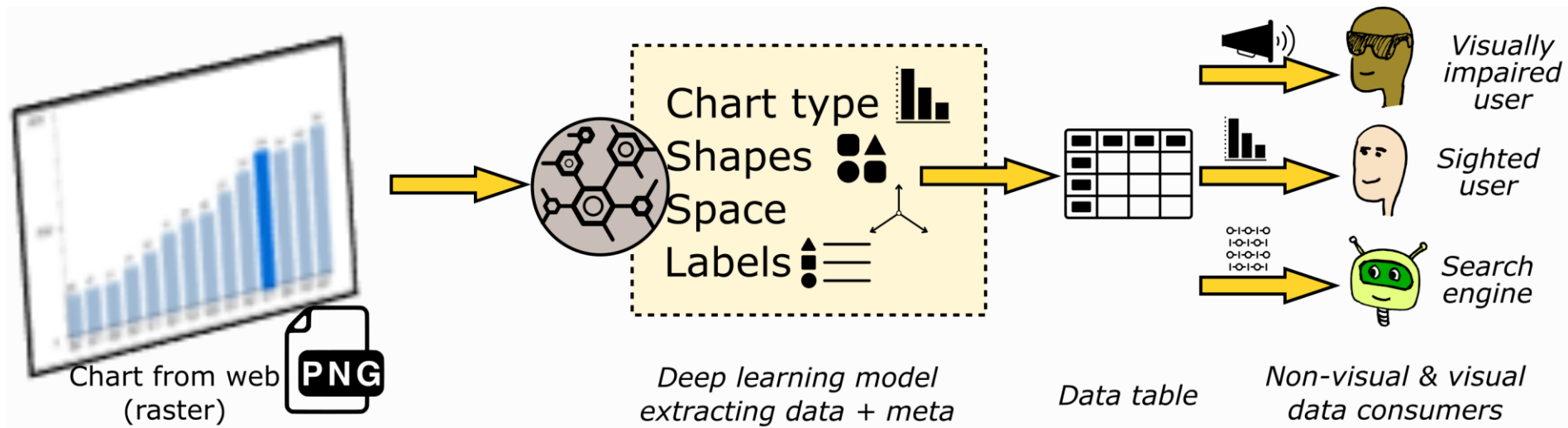
R-číslo udává průměrný počet dalších osob, které přímo nakazí jeden nakažený pacient. Čím vyšší je reprodukční číslo, tím se nemoc rychleji šíří. Pokud je R-číslo menší než jedna, počet nakažených v populaci klesá.

Jak uvádí ministerstvo zdravotnictví, model pro výpočet R-čísla pracuje s počty nově nakažených osob, které prozatím nevykazují příznaky, průběhem jejich onemocnění včetně infekčního období, nástupem příznaků onemocnění, přesunem pacienta do izolace a potvrzením onemocnění laboratorním testem.

Vývoj hodnoty R-čísla v Česku od začátku epidemie



Zdroj dat: Jan Netík (iniciativa Covid19cz)



Visualizing for the Non-Visual: Enabling the Visually Impaired to Use Visualization

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¹Korea University, Seoul, South Korea, ²University of Texas at Arlington, TX, USA, ³University of Maryland, College Park, MD, USA

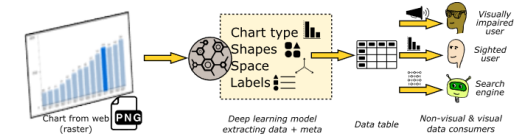


Figure 1: Overview of our pipeline enabling visualizing data for visually impaired users. A bar chart stored as a raster image is retrieved from the web. Our pipeline automatically detects the chart type, extracts the shapes, recovers the substrate, and parses the labels. The data is extracted as a data table. This data table can then be used for several purposes (from the top): with a screen reader for a visually impaired person, re-visualized for a sighted person, or as raw data for a robot (search engine).

Abstract

The majority of visualizations on the web are still stored as raster images, making them inaccessible to visually impaired users. We propose a deep-neural-network-based approach that automatically recognizes key elements in a visualization, including a visualization type, graphical elements, labels, legends, and most importantly, the original data conveyed in the visualization. We leverage such extracted information to provide the reading of the extracted information to visually impaired people. Based on interviews with visually impaired users, we built a Google Chrome extension designed to work with screen reader software to automatically decode charts on a webpage using our pipeline. We compared the performance of the back-end algorithm with existing methods and evaluated the utility using qualitative feedback from visually impaired users.