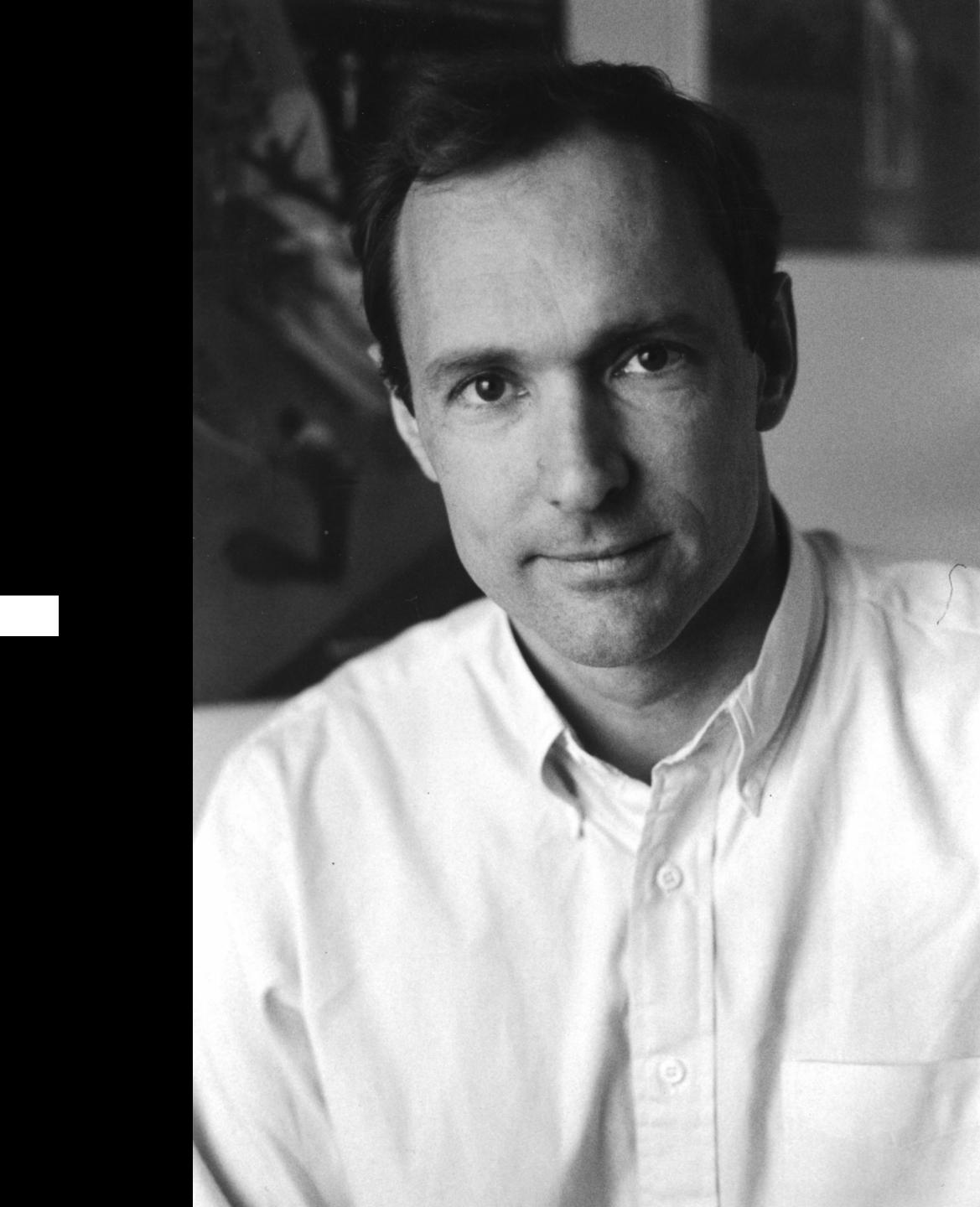
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Tim Berners-





CERN DD/OC

Information Management: A Proposal

Information Management: A Proposal

This proposal concerns the management of general information about accelerators and experiments at CERN. It discusses the problems of loss of information about complex evolving systems and derives a solution based on a distributed hypertext sytstem.

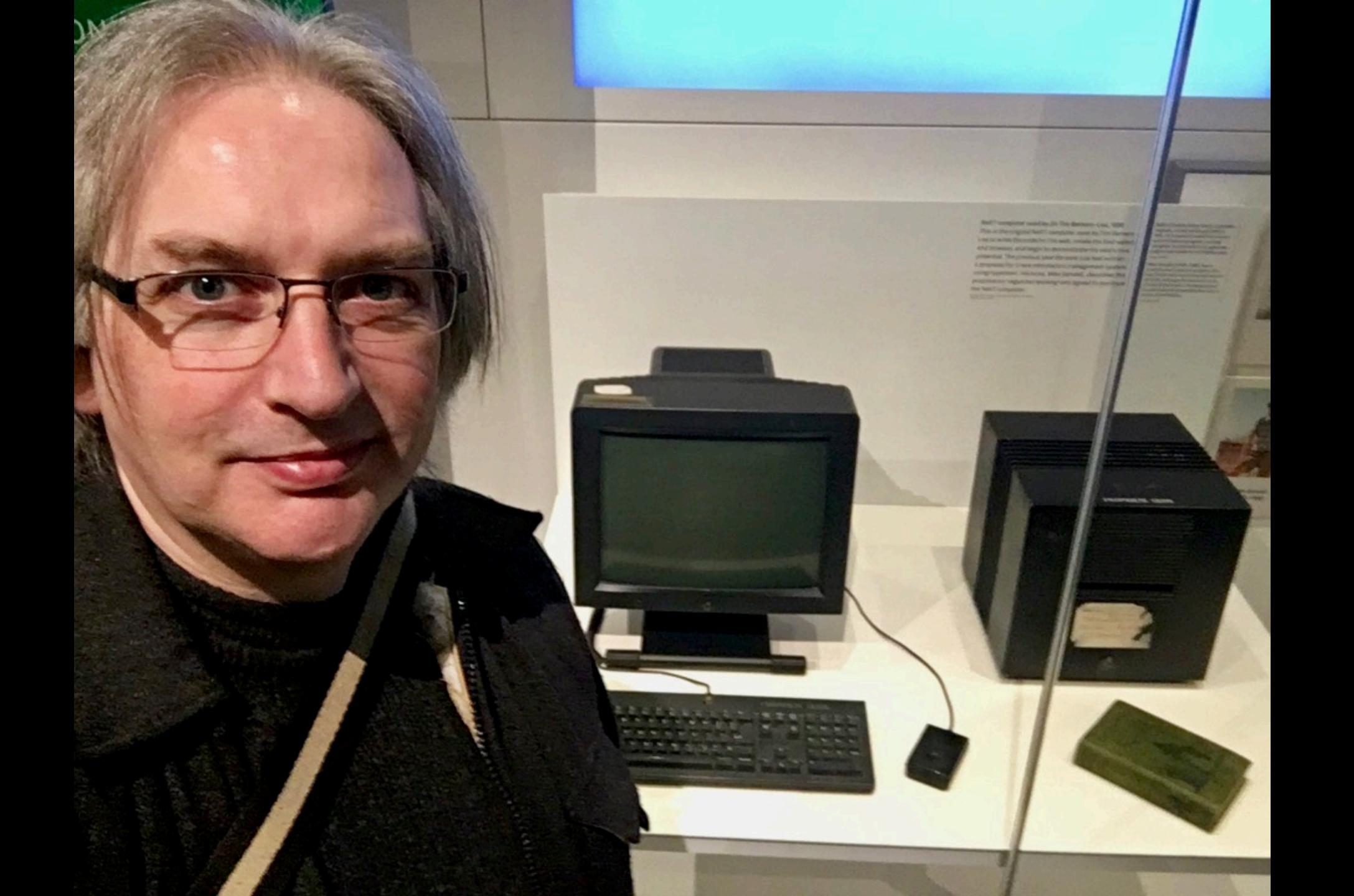
Keywords: Hypertext, Computer conferencing, Document retrieval, Information management, Project

Tim Berners-Lee, CERN/DD

March 1989

Abstract







WorldWideWeb	
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World Wide Web

The WorldWideWeb (W3) is a wide-area <u>hypermedia</u> information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an <u>executive summary</u> of the project, <u>Mailing lists</u>, <u>Policy</u>, November's <u>W3</u> <u>news</u>, <u>Frequently Asked Questions</u>.

What's out there?

<u>Help</u>

Software Products

Technical

<u>Bibliography</u>

People

<u>History</u>

How can I help ?

Getting code

Pointers to the world's online information, subjects, W3 servers, etc.

on the browser you are using

A list of W3 project components and their current state. (e.g. <u>Line Mode</u>,X11 <u>Viola</u>, <u>NeXTStep</u>, <u>Servers</u>, <u>Tools</u>, <u>Mail robot</u> <u>, Library</u>)

Details of protocols, formats, program internals etc

Paper documentation on W3 and references.

A list of some people involved in the project.

A summary of the history of the project.

If you would like to support the web..

Getting the code by <u>anonymous FTP</u> , etc.





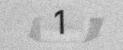




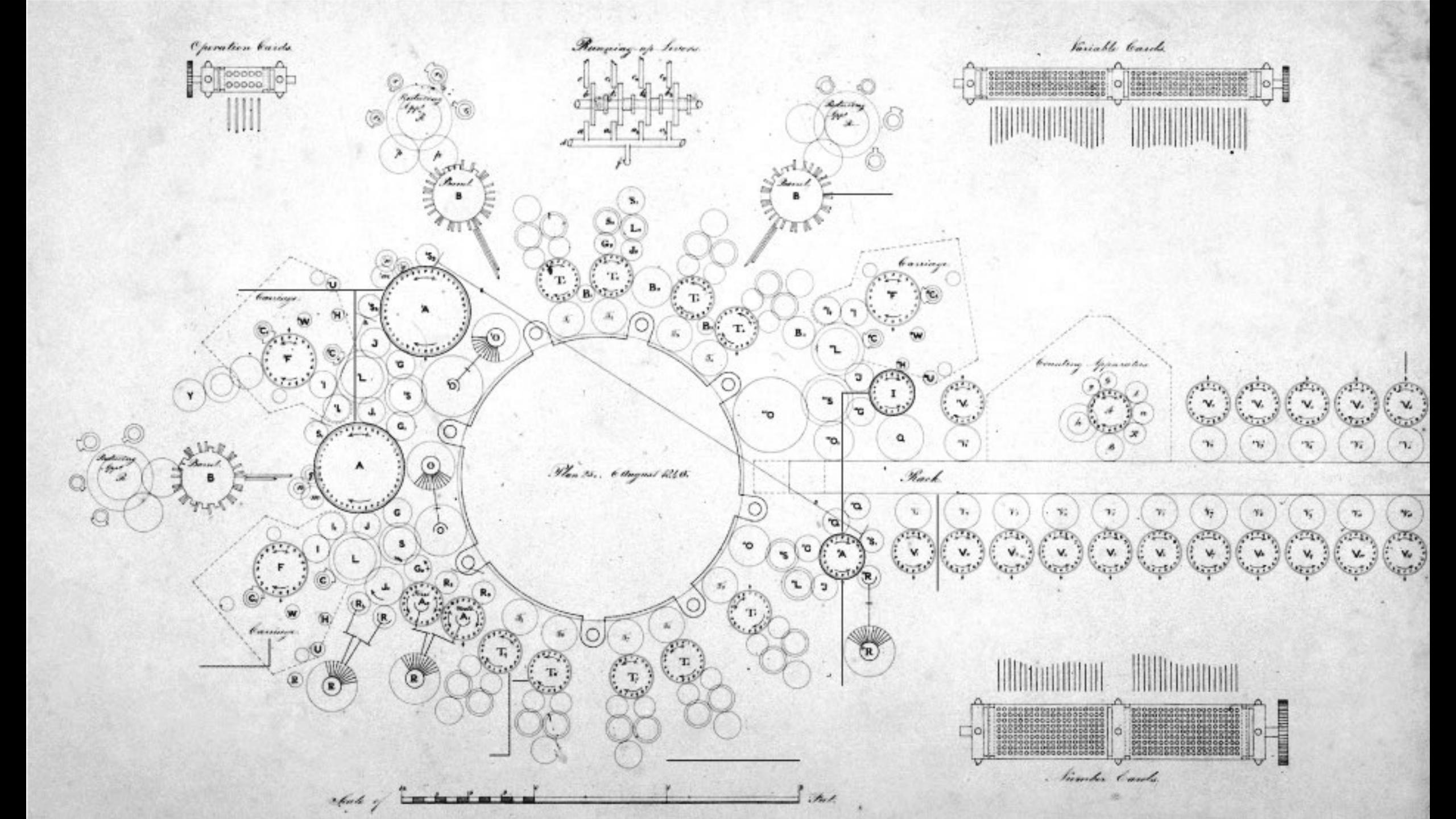




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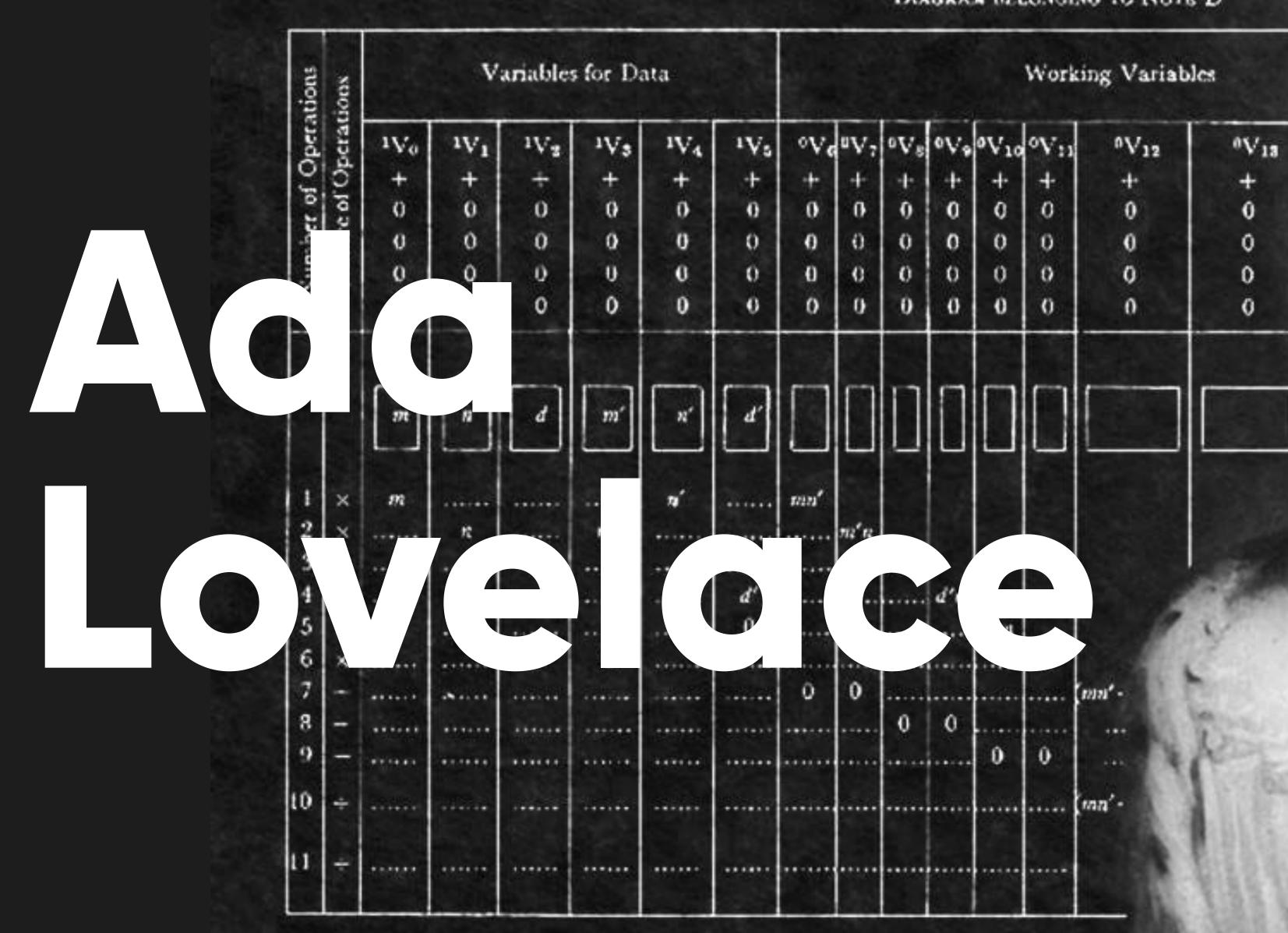


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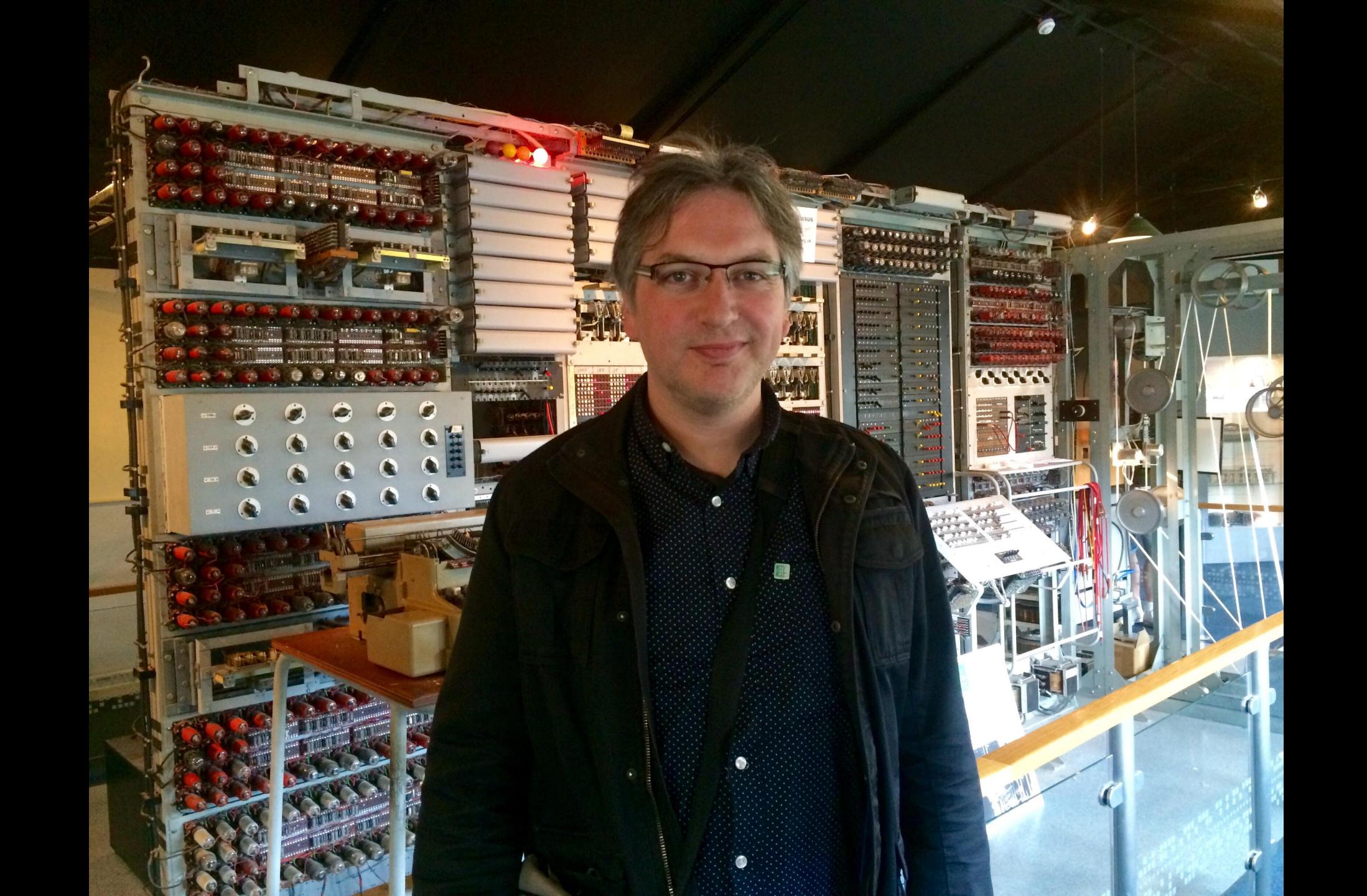
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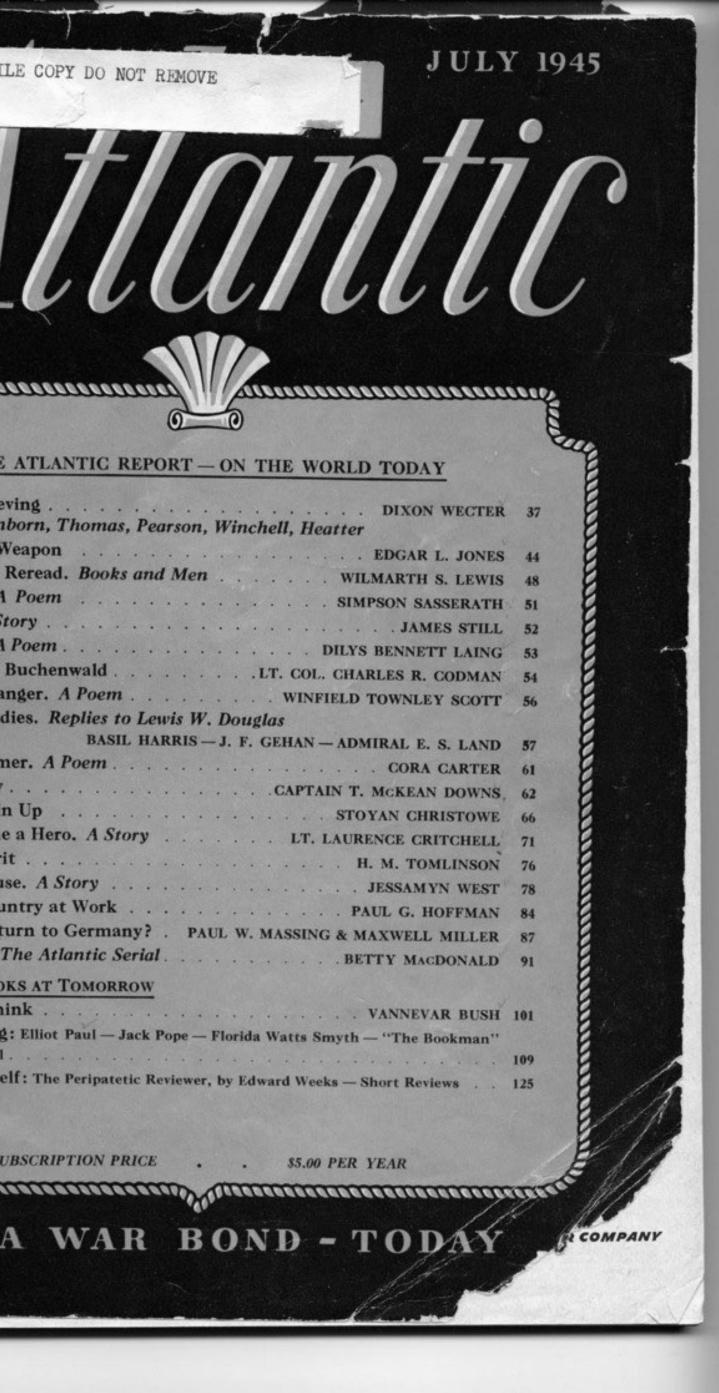
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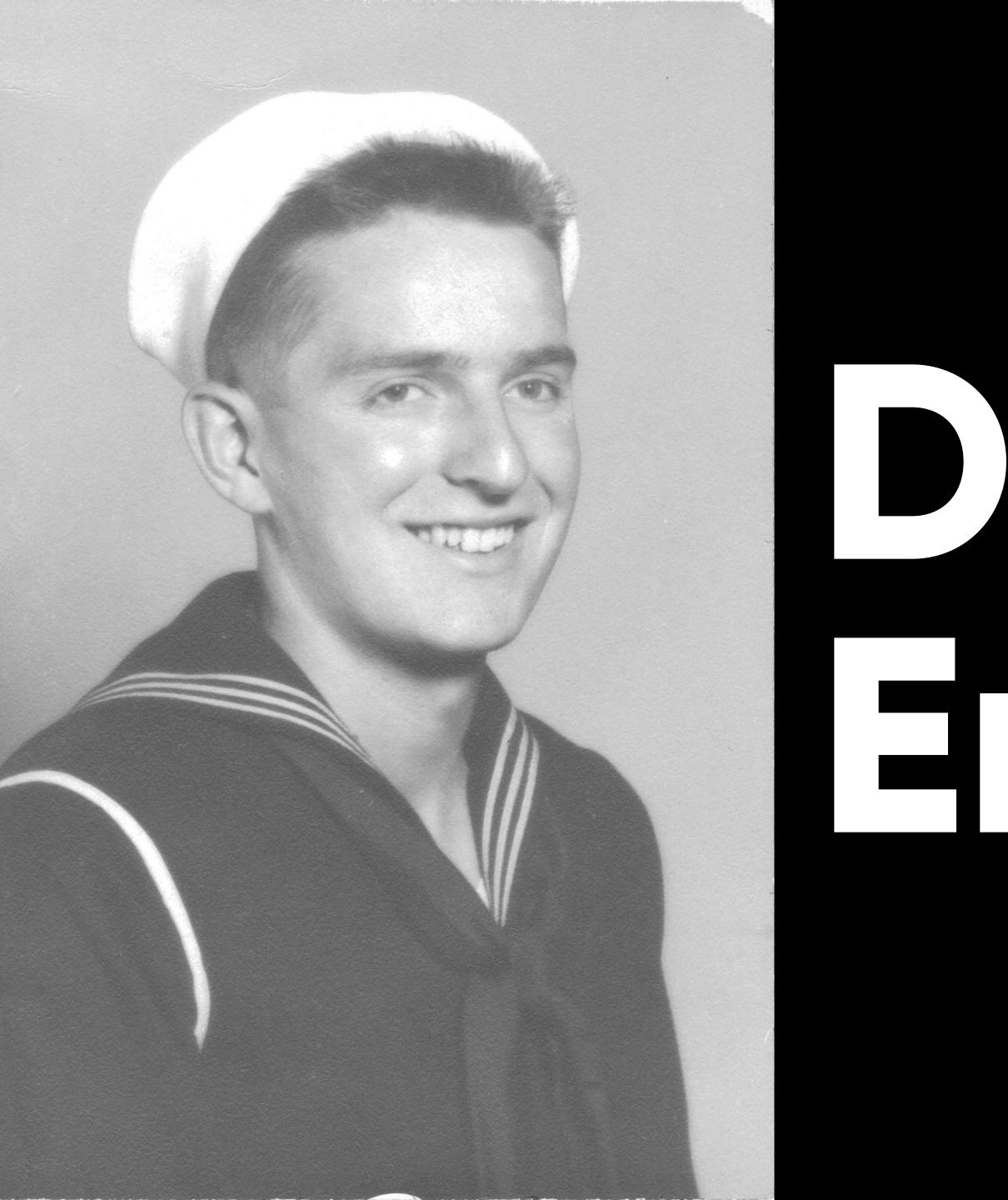
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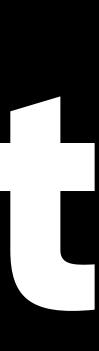
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ROLLING STONE/DECEMBER 7, 1972

ROLLING STONE/DECEMBER 7, 1972



REAC. WEDNESDAY ID OCTOBER, LINA ROURS. FIRST FRETE WILL DE A YEAR'S SUBSCREPTED TO "ROLLING STONE" THE GALA EVENT WILL DE REPORTED DY STORE SPORTS REPORTER STEVART FRAND & FROTOFRAFRED BT ANNIE LIEFOWITZ.

PREC PECE

LADY OR BOIL COMPLETS ATE Thar's good rever, maybe the beat since psychologics. It's may off the track of the "Computers-Threat or Monace?" school of liberal criscison but surprisingly in line with the romantic lasticsics of the foreflath-ers of the science such as Norbert Wienert, Warren McCulloch, J.C.R. Licklider, John von Neumann and Vanaerist Bush. The trend overs in health to an odd arry of influence: The youthful ferror

The trend own is hash to an odd array of isfluences: The youthful fervor and fee die-Eatabliahenetarianism of the freaks who design computer science, an anonadiaply enlightened research program from the vory top of the Do-lesse Department, an anexpected mar-ket-fanking movement by the sites. Radph wants other features. "No." Click: N factures of small calculating machines, and an irrepressible midesight phenous-mere known as Sciencest

and as interpresentible midnight phenom-renon knows as Spaceaur. Reliably, at any nightnine mammati (i.e. not-business hours) in North America hundreds of computer sech-nicians are effectively out of their budies, locked in life-or-death space combat computer-projected once cath-ods ray may dight interment, for hours at a time, ruining their cyce, numbing their fingers in firenied maching of control buttons, joyouzly slaping their forende and washing their employerry valuable computer time. Semarthing basic is going en.

valuable computer time. Seminiting basic is going on.
Rudimentary Spacewar contains of two humans, two sets of control buil-tons are joyeticks, one TV-like display displayed in metion on the screen, con-trollable for thrust, yaw, pitch and the foring of torgudoes. Whenever a spec-ship and torgodoe next, they disappear in a method. (More on him in a member).
Click: Y
Investigation of the screen poor dark and then displayed in metion on the screen, on convincing starfield, and four space mines orbiting anoreman acts at zero, a convincing starfield, and four space mines orbiting anoreman is a member.)

Denober, 1972, 8 PM, at Stanford's Artificial Insuffigment (AI) Laboratory, moscielli and remote in the footbills abeve Pale Alse, California, Two dozen of us are jammed in a semi-dark cossoile room just off the main hall containing Al's PDP-10 computer. Al's Beack System Programmer and most avid Spacewar nut, Balph Gor-ing, faces a display screen which cary only.

with: Click ("ron") clickclickclick "Space War Ralph") click ("do-it"). RSWR

BLOOME TO SPACEWAR.

WELCOME TO SPACTWOR. How waxy steps? Maximum 15: 5 Stewart Brand, 33, is a productr of thouses a los, ungling out individual Starford (biology), From 1988 to 1971 he uppotents. Flatback is silent and main-tains an uncases field-sense of the edited the Whole Earth Catalog.

Click: 5 (Five players. This is for the oming to the people. That's good news, maybe the Spacewar Olympics, initiated by me

Cascore racine 2280 10 4.

PARTIAL DANAGE? DUSPLAY SCHRIP! Cick Y Two rownoo puer?

HIPPENPACE? Click: N RANDOM STRATING POSITIONS?

reginal version investig in 1962 at MIT by Steve Russell. (More on him in a moment.) October, 1972, 8 PM, at Stanford's Artificial intelligence (Al) Laboratory, mount an anone in the footbills

ady: Test Connect A AVAILABLE. He lags in on the keyboard with bin-simulae Click clickclickclick. L1, Rational Connection Statement of the second state to the second state to the second state of the se Pointy First is a dead shot but patient sasily is cross for. Anundback tries to avoid early ducing and routinely fires two torpodeus "around the universe" toff the screen, so they orappear lethally unexpected from the opposite sidel Birdy drives for the san and a fast

- -

umbar then accompts flank attack combac, other accepts, page rights, who in "Pointy Fars' (appor rights, who has sought: Boundback' mapping & ourfought: Flutback' head to head As killy are made the displayed sumbers keep score.









Falling into orbit around the central point, 'Birdie,' at lower left, defeats 'Funny Fins' in single

Fanatic Life and Symbolic Death Among the Computer Burns by Stewart Band

whole hattlesky, impervious to surprise A game is over when only one or no

A gate is an displayed. The screen then blanks out, counts down 5-4-3-2-1, and redisplays a new battle with ships at new random positions equidistant from the sun and showing scores accommis-tive from previous games. A spacehip that is killed sarty in a battle will rein-census after 16 scoreds and reion the carnate after 16 seconds and rejoin the fray, so that a single battle may last up to five minutes with a weak player per

to free minutes with a weak payer per-ishing several times in it. The twenty or so reacous competi-tors in the Spacewar Olympics quickly organize these events. Five-Player Free-Foc-AR, Team Competition (two against twist, and Singles Competition. The encoutive officer of the AI Pro-location Exercises who kindly Oked The executive offset as the kindly OKed these Olympics and their visibility, is found to have no emtendiate function and is sense out for bor. The setting and decor at Al is Mod-

ern Mad Scientist-long hallways and cohicles and large windowless rooms, exhicles and large windowless rooms, breatal fluonocent light, encommon ma-chines humming and clattering, robots on wheels, senerying areans technicians. And, also, posters and anneurocentents opainst the Vietnam War and Richard Nixon, computer print-ent photos of girifrirands, a hallway-long hanter Society of coax's Prostana Toson-sow, and signs on every door in Tal-kien's chiah Featorian series—the offer room Tak Prancing Perty, the comput-er room Mordor. There's a lot of hair on these technicians, and mabedy a those technicians, and nobody eems to be telling them where to

The games program. A tape recorder kibites on the first routed of Team Competition, four ships twisting, comerging, evading, exploding Where am P Where am P Click

Whose am P Where an P Click liskelsektiskelsek dikek Clickelsekelsek diekolisk Glienk Clickelsek Goed work Towar. Revenge: Click-

dick dickdick Cease fire. Click clickclick. Obbbbbh NO? You killed me. Tovar.

Pm sorry. Clickelickelick Being parmers means server having

say you're sorry. Clickeliekeliek Ger him! Get the mother! Clickeliek dickelickelick.

Saerfler, Clickelek eliek Lemme per in örble. Clickeliek Way to dedge. Click eliekeliek

Availit Get rough new. Clickclickelick The other pay was out of torps. I

knew it and wated sill I get a good shot. Clickeliek A beaut. O lord. Clickeliekslick I shot him hut then I sharped. Clickclick clickclick

We win! Towar and Rem!

By use? Towar and Rem win the Corruct. Towar and Rem win the Train Competition (Rem is how Roh-ert E. Maas in known in the computer and these to his freedb). Brace Biam-gart, who by day builds seroing intel-igence into a rubot vehicle, wint the Free-For-AE with a powerflowar per-formance. And dam Tovar task the Singles.

Singles. Meanwhile, your photographer Annie, was tagged all over the lab 5 see the hand-eye rig, the number half-none printer, various spectacular pro-

10000

metric daplay hacks, computer reto programs, the color video image makes programs, the coast value image makes Four interms heaves, much heavy and skilled concerted action, it 15-ring encods has bee defloyed directions, the most has been been sensed as the been assumed since Merry Products' Acid Tests ... and really it's just a normal night at the Al Project, at any suitably hairy computer research project.

or more of computer science is heads. But that's not it. The rest of the counterculture is laid low and back these days, showing none of this kind of mul. What, then?

The Hackers

I'm guessing that Alan Kay at Xeron Research Center (more on them short-by) has a line on it, defining the stand-and Computer Bam. "About an straight as you/d expect

hotrodders to look. It's that kind a fanaticism. A true backer is not a group person. He's a person who loves to stay up all sight, he and the machin in a love-hate relationship. They'r kids who tended to be brilliant but no very interested in conventional gos And computing is just a fabulous pla for that, because it's a place where y don't have to be a Ph.D. or anoth obe. It's a place where you can still b an artisan. People are willing to pa-you if you're any good at all, and you have plenty of time for screwi

The backets are the technicians this science. "It's a term of derivier and also the ultimate compliment. They are the ones who translate human demands into code that the machine can understand and act on. They at legion. Families with a potent new top A mobile new-found cline, with its own apparat, language and character, its own lagends and leastor. These mag-sificent men with their flying machines, scouting a leading edge of toch-nology which has an odd softness to it; outlaw country, where rules are not decree or routine so much as the stark-

er demands of what's possible. A young science travels where the young take it. The wiser computer re-starch directors have learned that not trasting their young programmers with major responsibility can lead immedianely to no research. Al is one of peraccy in no research. At is one of per-haps serveral dozen computer research centers that are floatishing with their young, some of them with no more formal dozention than they get at the local Free School. Pm talking to Las Earnest, the gent who went for beer Edited, the girst who went for they, Bic's tail, ensurity, has a black and white striped beard, looks like a Sali athlete. He's telling me about what clice people build here beides refine-ments of Spaceway. There's a speech recognition project. They's the hand-respiration project. we project, in which the computer is learning to see and visually correct in robot functions. There's work on sym-bolic computation and grammatical in-ference. Work with autistic children, "trying to get them to relate to comsupers first, and then later to people. poters tou, and then add to people. This seems to be successful in part be-cause many of these children think of themselves as machines. You can en-courage them to interact is a game with the machine." Another wondow on the interests of



Al and of the backers is a posted print-

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Peter ... A distinction exists between low-rent and high-rent comparter research between preoccupations of research group. The distinction blars often, Les Ear-that Steve Russell and his follow tack-ern Alan Kotok, Peter Szenson and Dan Edwards introduced Sparewart to the world. 1 phoned Russell at the oprawling of fabric mill in Maynard, Massi-chuserts, where Digital Equipment Corporation manufactures the most product research and obtaction com-patters on the markets. Russell current-nat on how mechine they would but of the that steve Russell and his follow tack-the world. 1 phoned Russell at the oprawling of fabric mill in Maynard, Massi-chuserts, where Digital Equipment Corporation manufactures the most popular research but out the the operation work is in an inter-patters on the markets. Russell current-miting the pace. It's milatively fair spaced, and that makes it as inter-origing group plans is one sparters on the markets most most in an inter-rest on how mechine they would but to the operation formation and the operation formation formation formation formation formation the operation formation formation formation formation the operation formation formation formation formation formation formation the operation formation formation

Bruce Baumgart, winner of the Frie-Man Free-For-All as the First Intergalactic Spacewar Olympics, brandshing commol bastoris in sriamph

Spacewar

"are more from the support groups than the research groups. The research groups their kicks out of research." Spacewar is low-rest.

ar is not only intriguing hisis a the most sophisticated analysis of cod game design I've ever run across pant work. But that's in retroups ck then it was just kids staying up sight. We had this brand new PDP-1,

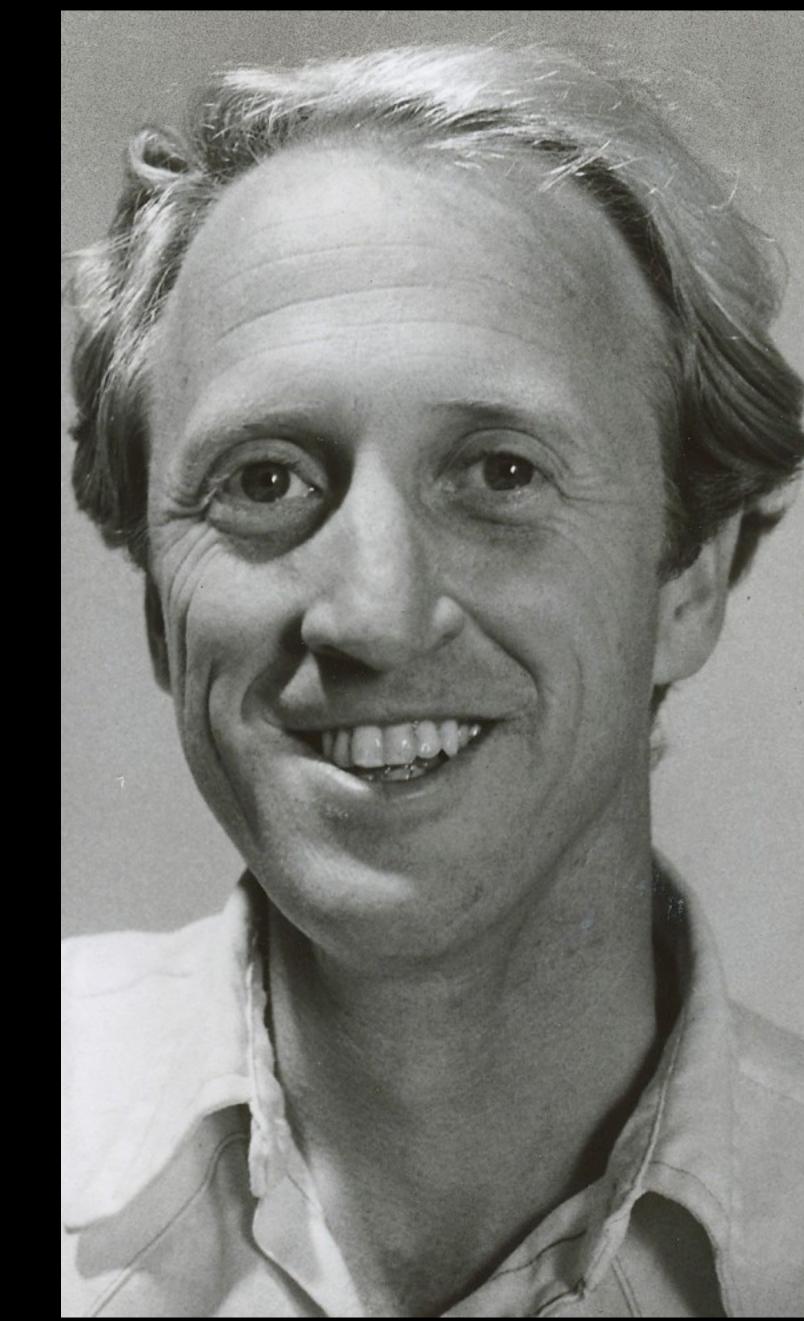
PAGE 5

or Russell recalls. "It was the first i-computer, ridiculously insupenwe for its time. And it was just sitting sere. It had a collarde typewriter that orked right, which was rare, and a aper tape reader and a exchode ray the display. [Three had been CRT lays before, but primarily in the Defense System.] Somebody had at some infine pattern-promotion had off some infine pattern-powership perterns the a kaleidoscope. Not a very good menosimation. Here was this display at could do all some of good thinget are studied technic house in fine set. we started talking about it, figuring at would be interesting displays decided that probably you could a two-dimensional maneuve of thing, and decided that eatur byious thing to do was space

had just finished reading 'Dee mith's Lettornary series. He was some ort of scientist but he wrore this really isshing brand of science fiction. The etails were very good and it had an ellent pace. His heroes had a strong dency to get purvased by the si actes to get paraged by the vo-n across the galaxy and have to in-t thrir way out of their problem de they were being paraged. That to actions was the thing that sug-ted Spacewar. He had some very wing descriptions of spaceship en s and space fleet maneuvers." e Boise leaped upon the Nevias

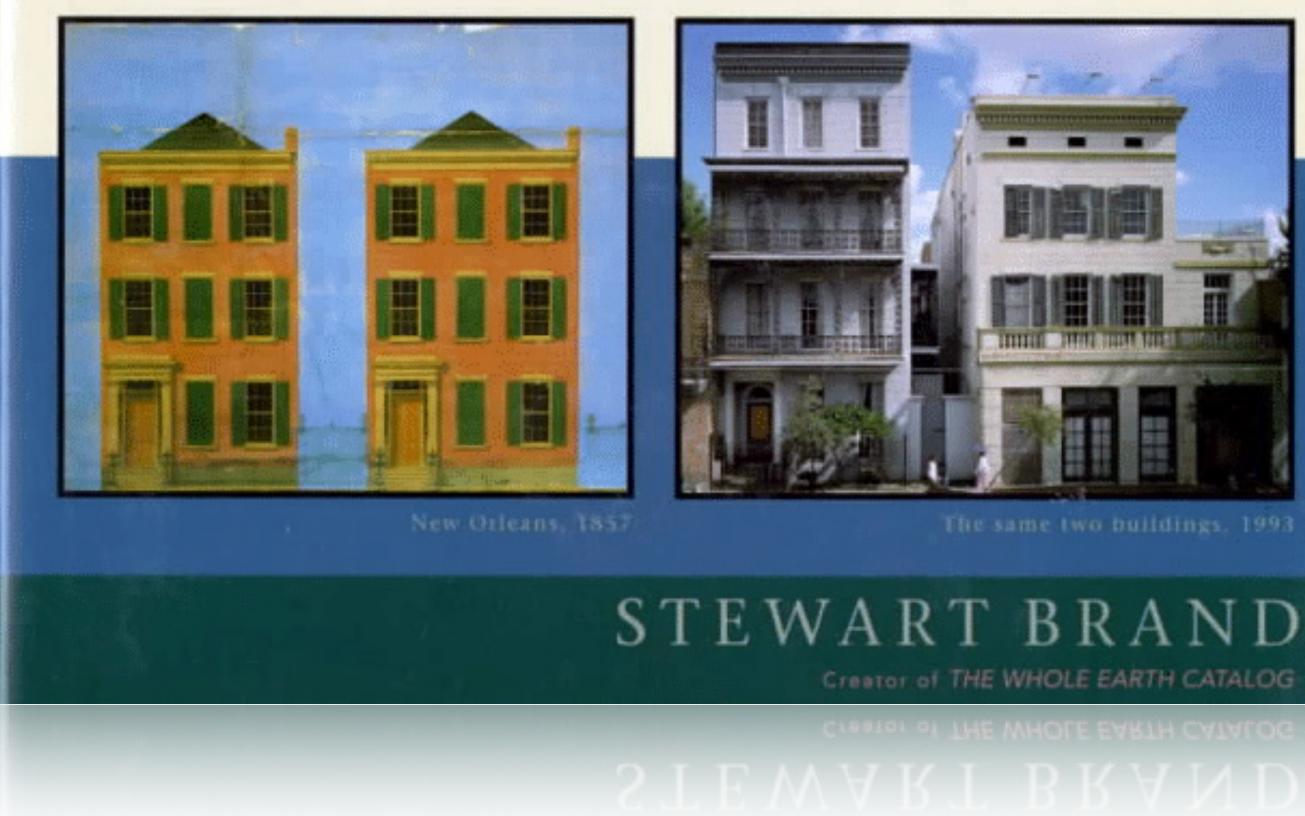
weapon aflame. But, as Costigan expected, Nerado's vessel was nely ready for any emergency. And, unlike her sister-ship, she wa more 250 elaborate routines available, Soanen, DPT Rack Broom Balancing Comparison Portion of Soanen, Rentieves Selected AP News Stories

difference between recreation and work, happily. We try to jodge people in a reasorble for them working on what they accompliate they water but on what they accompliate they water but on what they accompliate they water but on the machine interflate problems of time, like a half year to a press. If is a dide that support groups that the research groups. The research and many machine interflate problems out of time, like a half year to a grano-machine interflate problems and proplems of the research groups. The research and many machine interflate problems out of the research groups that needs to an anthe many many machine interflate problems out of the research groups that needs out of the research groups the needs out of the research groups the to an art there is a set of the research groups the needs out of the research groups the needs the the research groups the needs the research groups the total the research groups the needs the research groups the needs the research groups the total the research groups the needs the research groups the total the research groups the total the research groups the needs the research groups the the research groups the total the research groups the research groups the total the research groups the total the research groups the research groups the research groups the total the resear

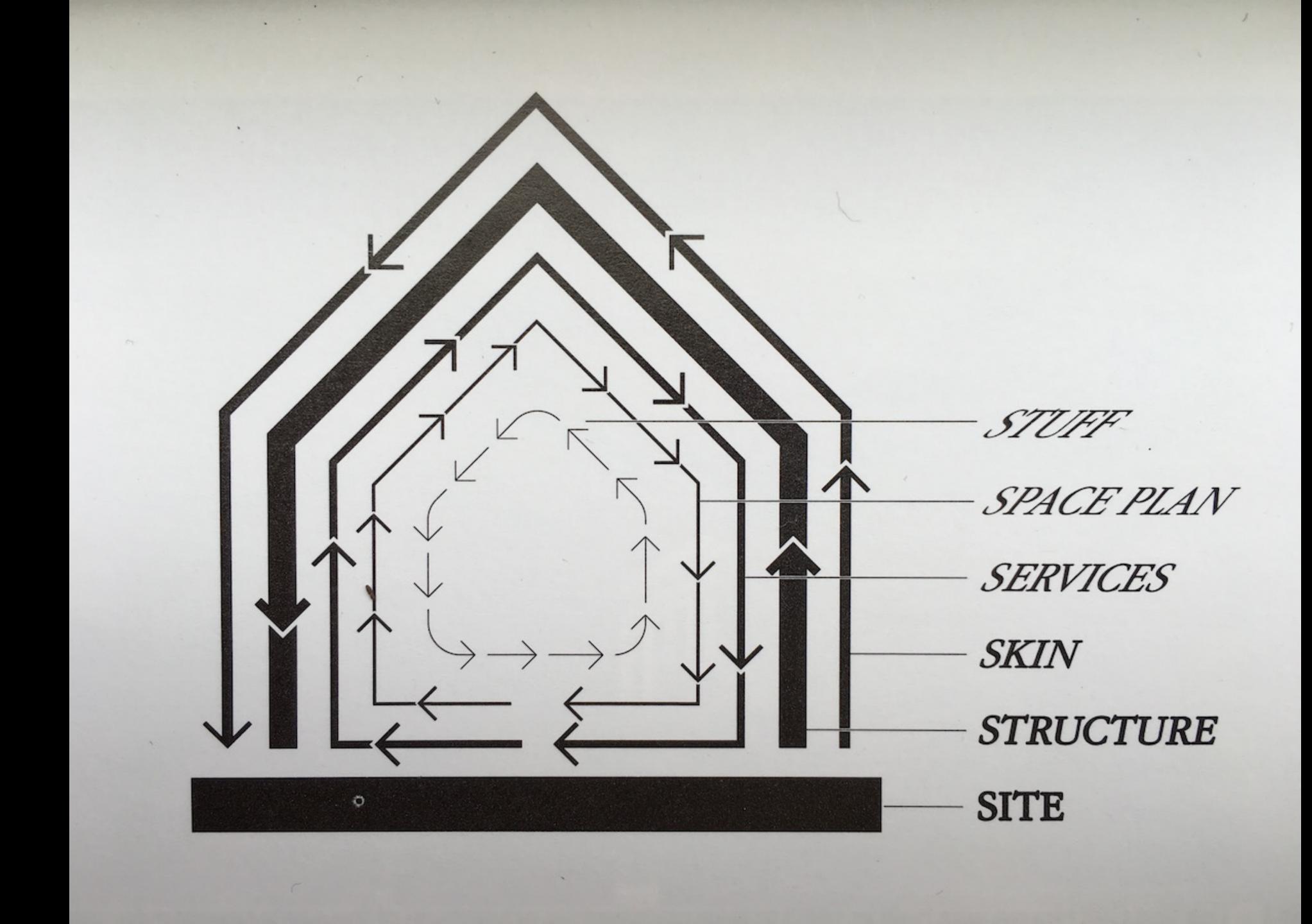




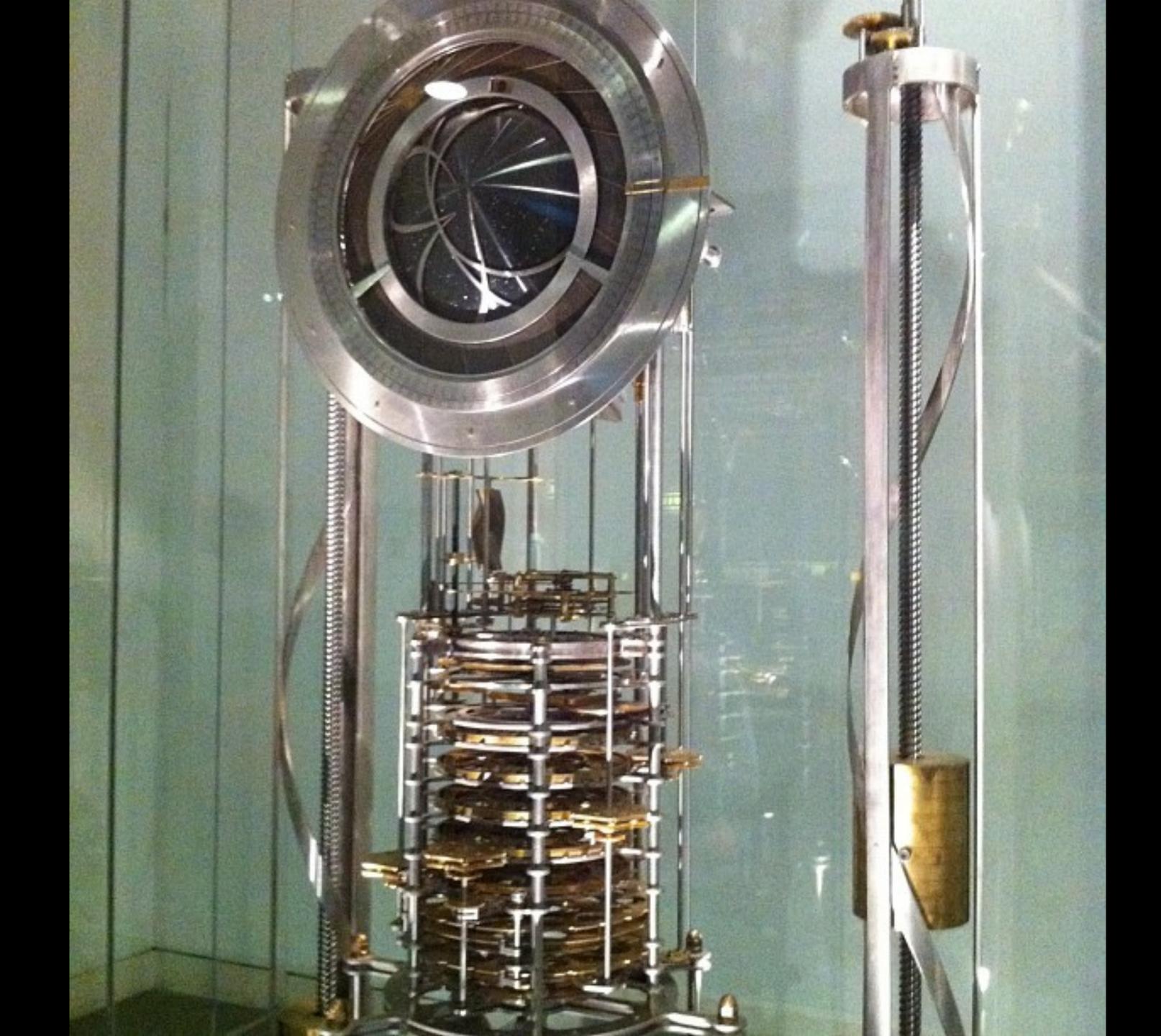
HOW BUILDINGS LEARN What happens after they're built



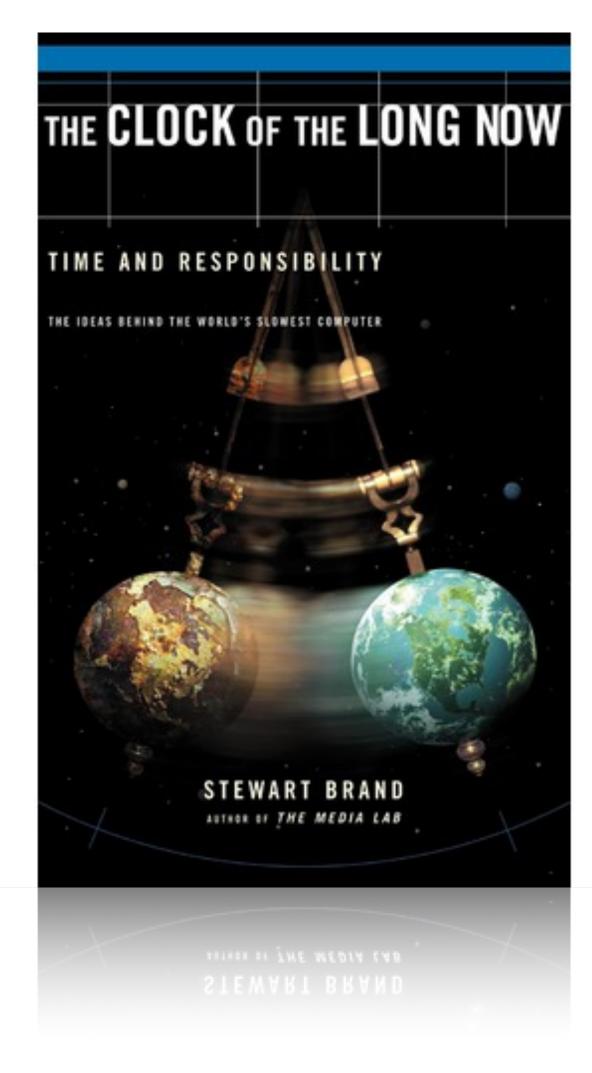






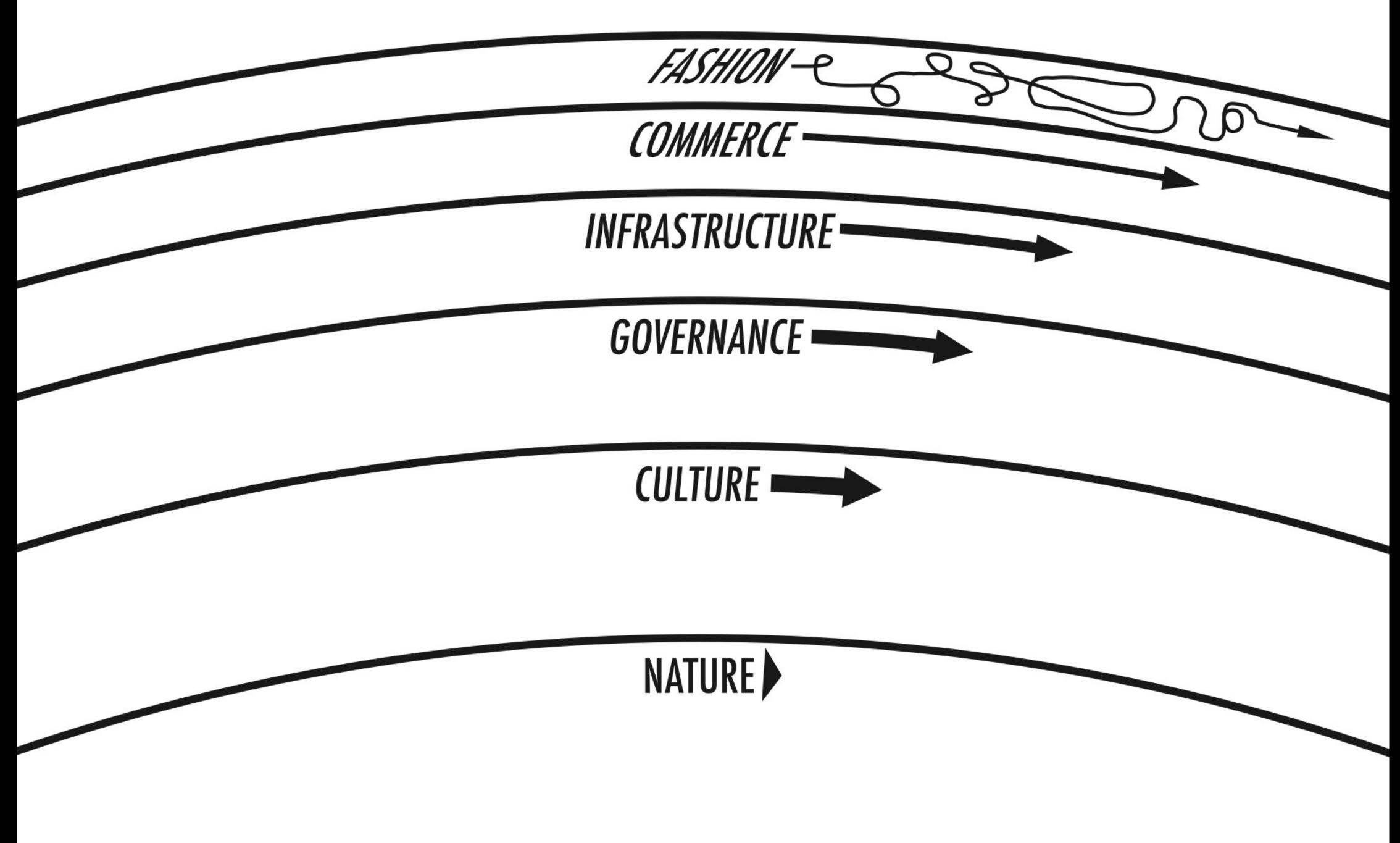


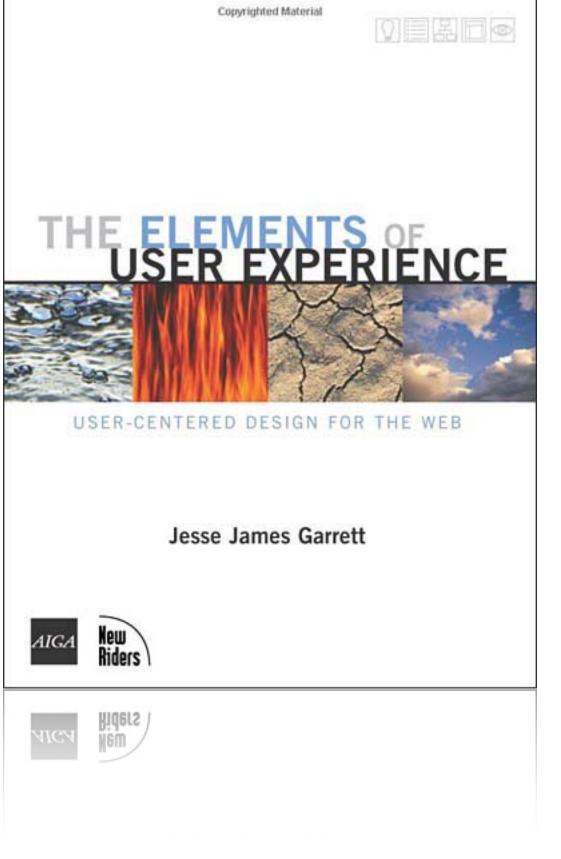


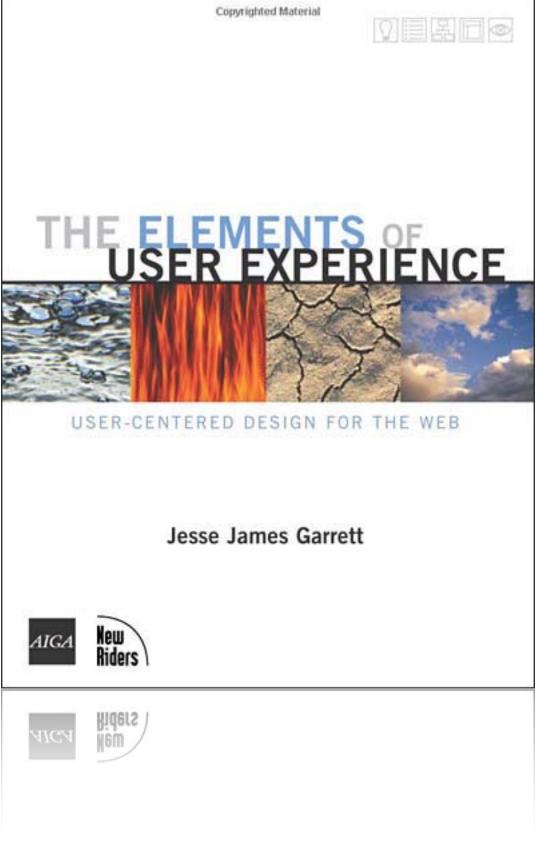


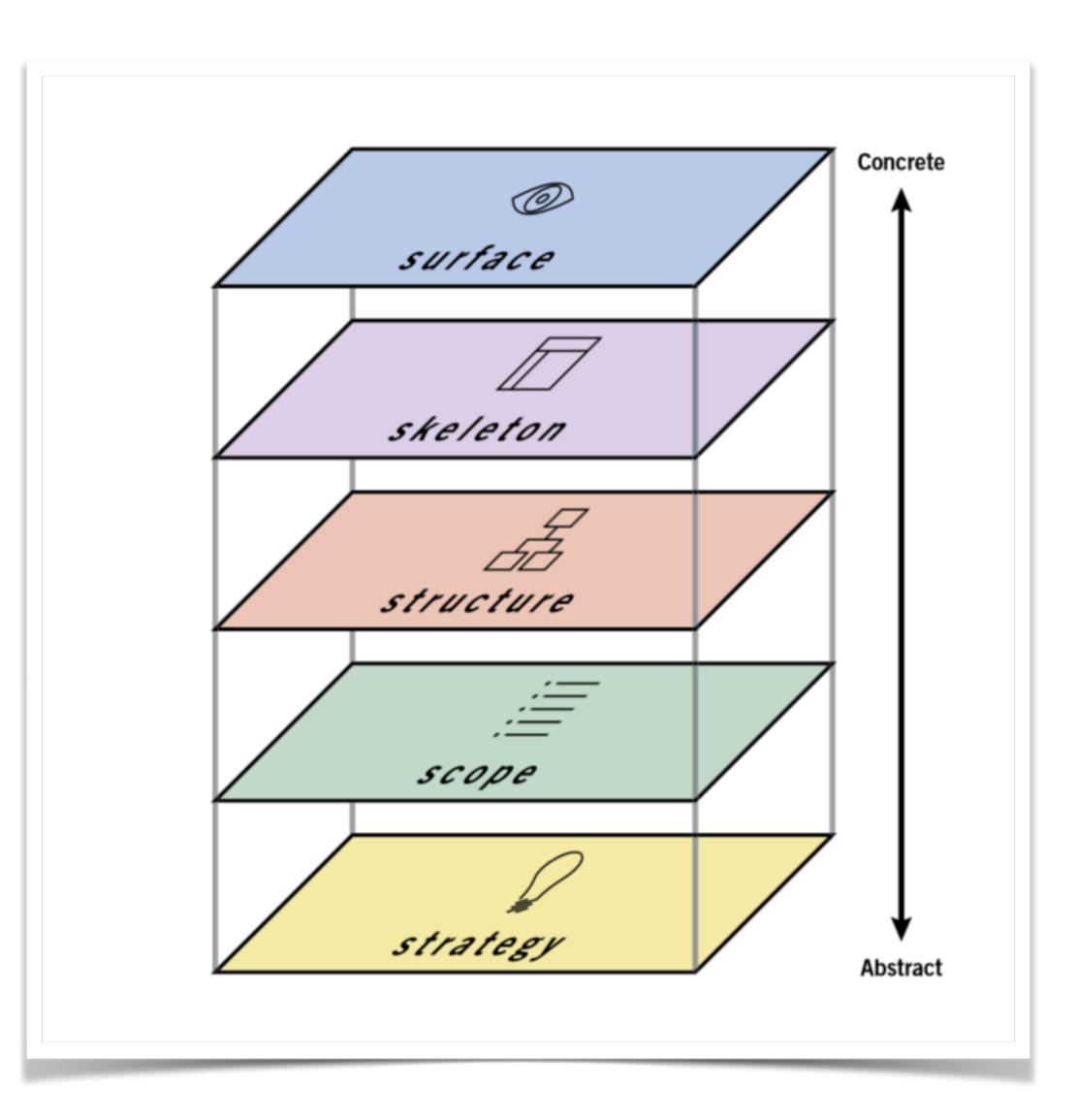


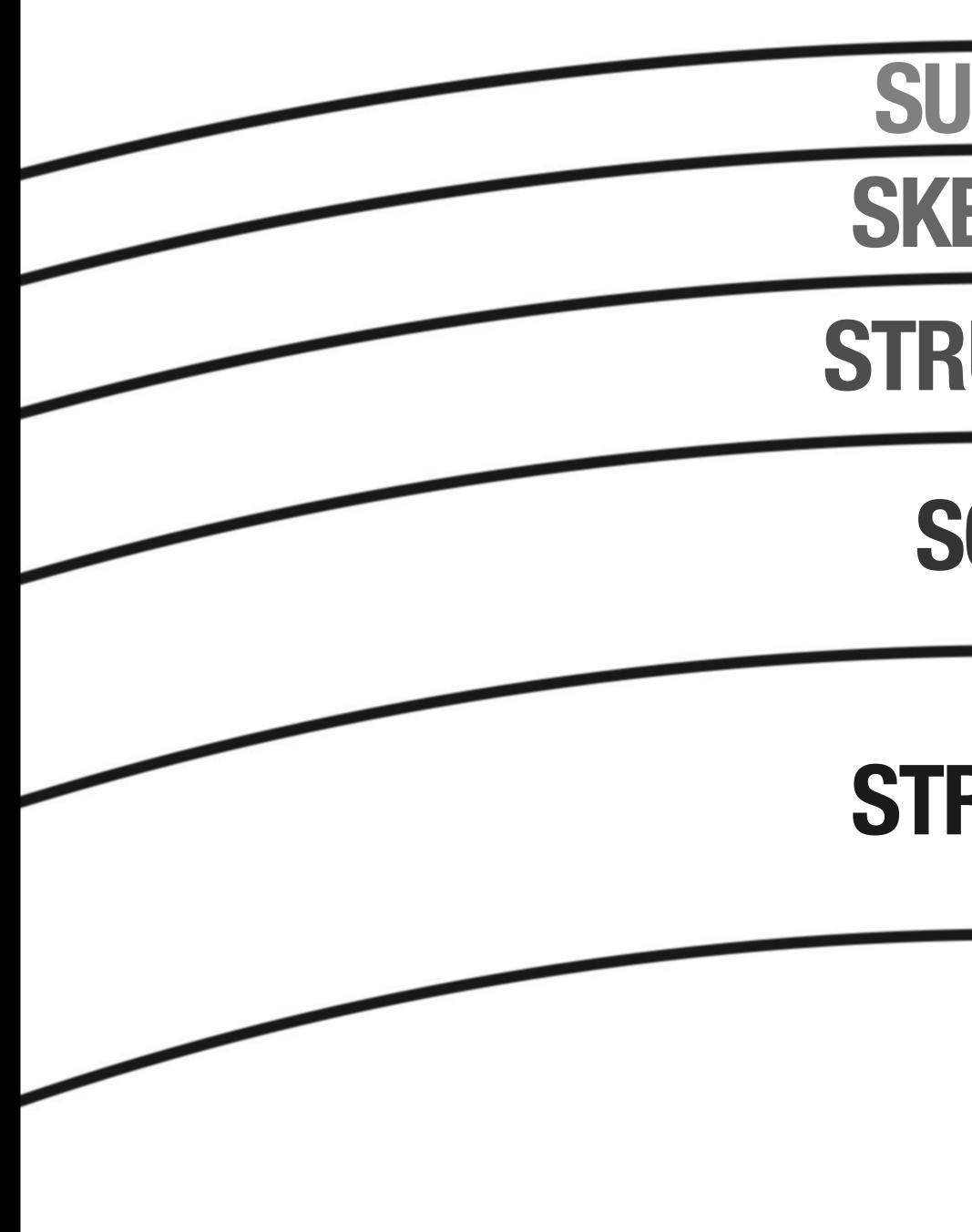










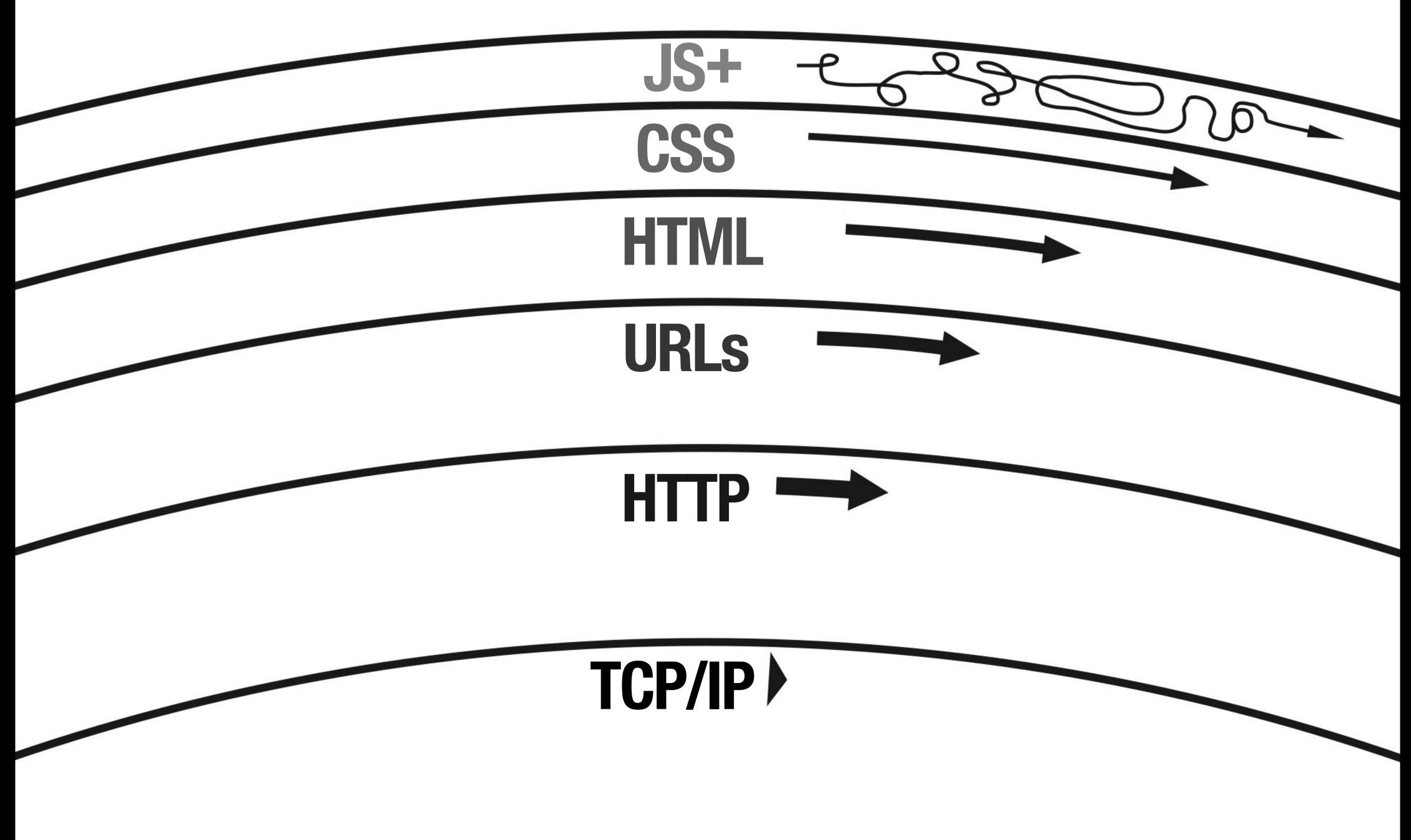


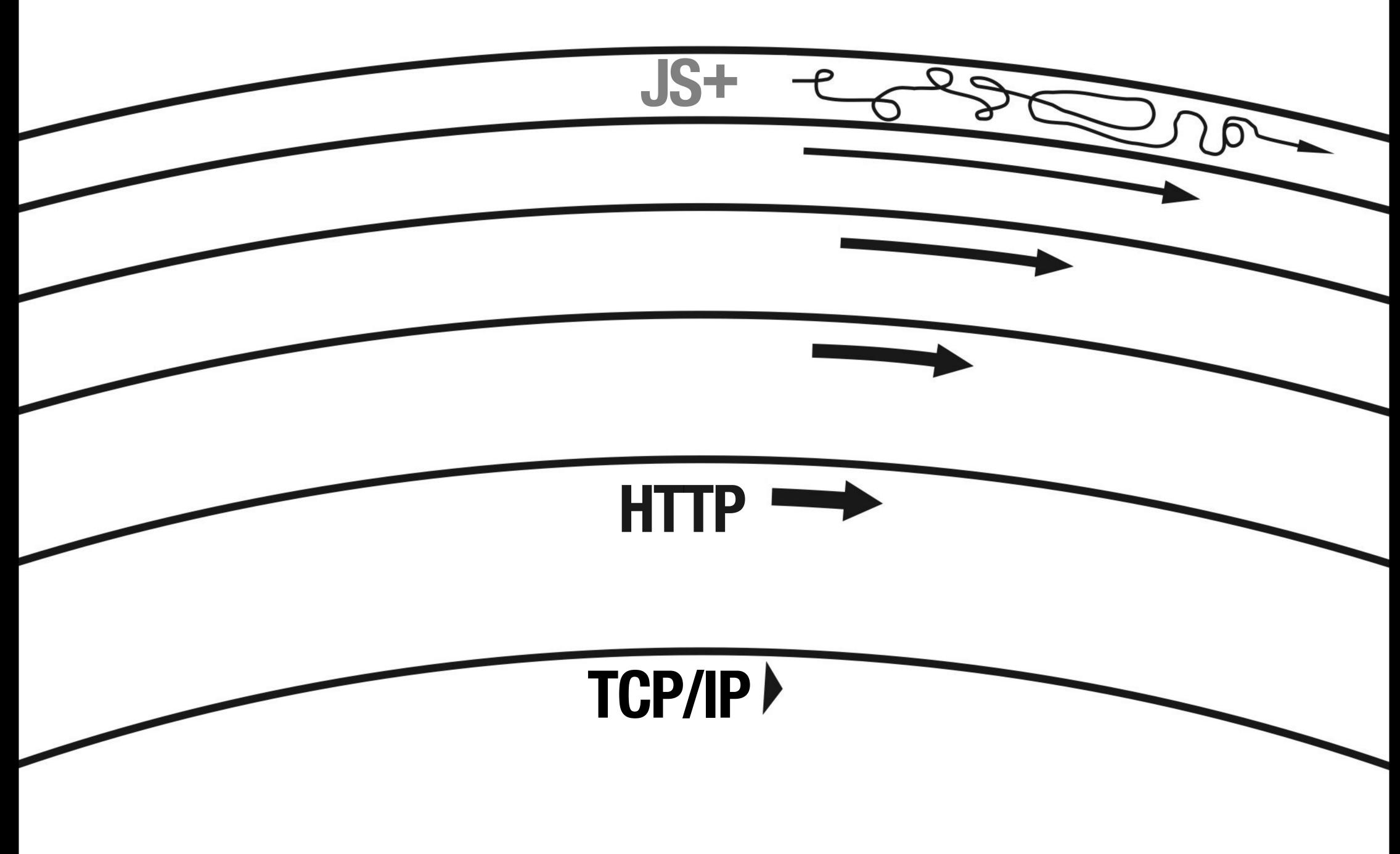
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STRUCTURE

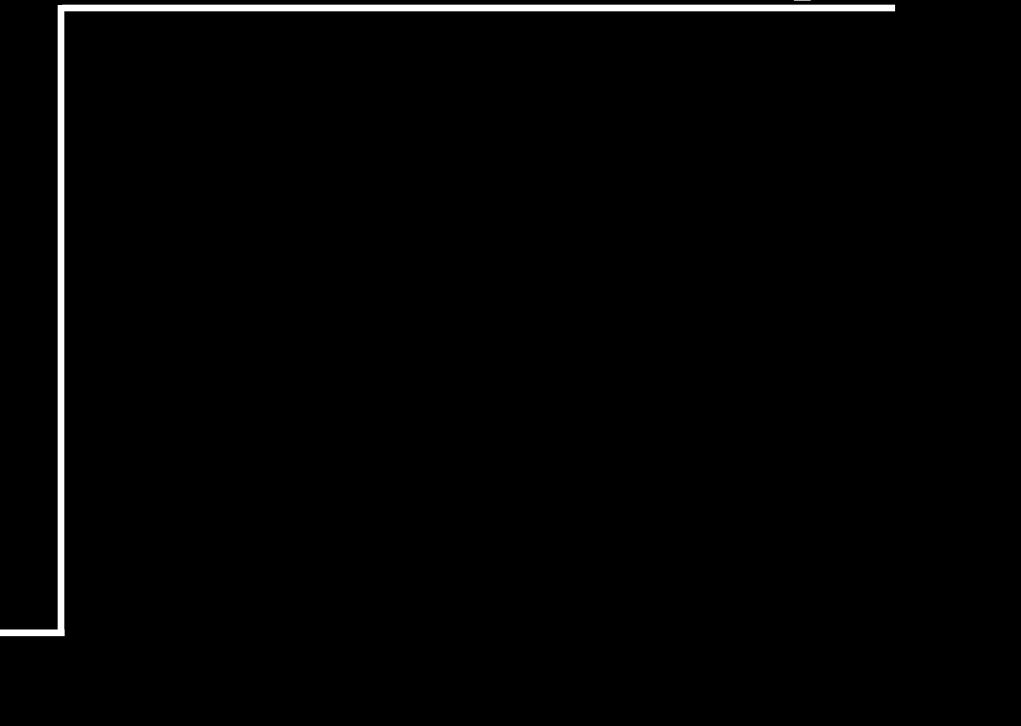
SCOPE

STRATEGY



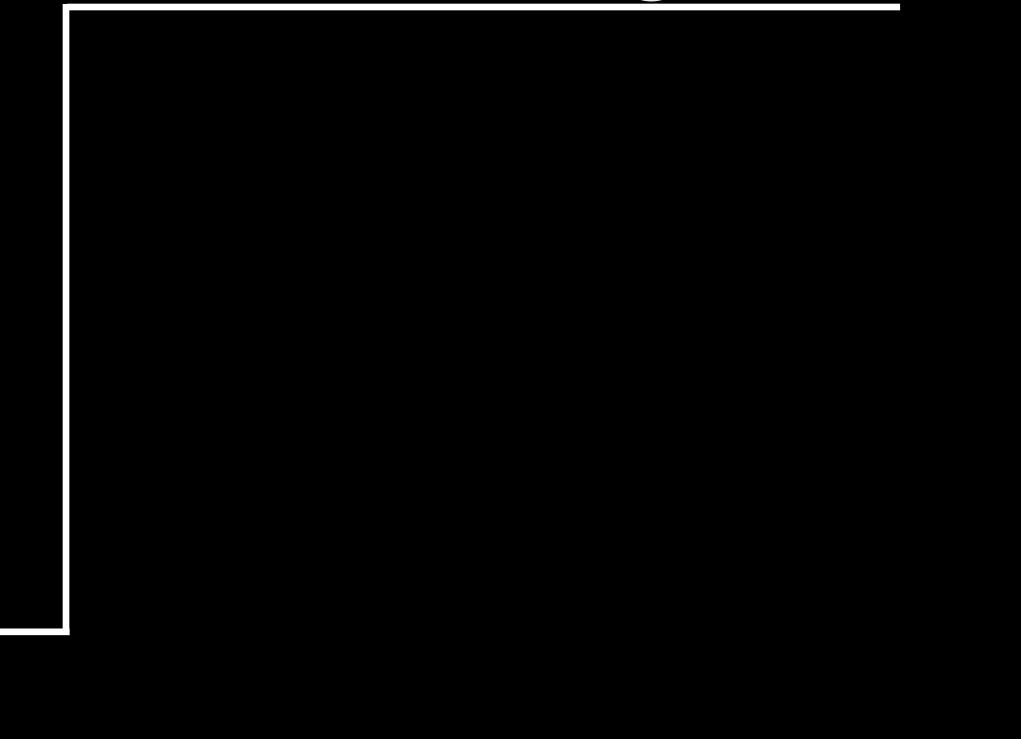


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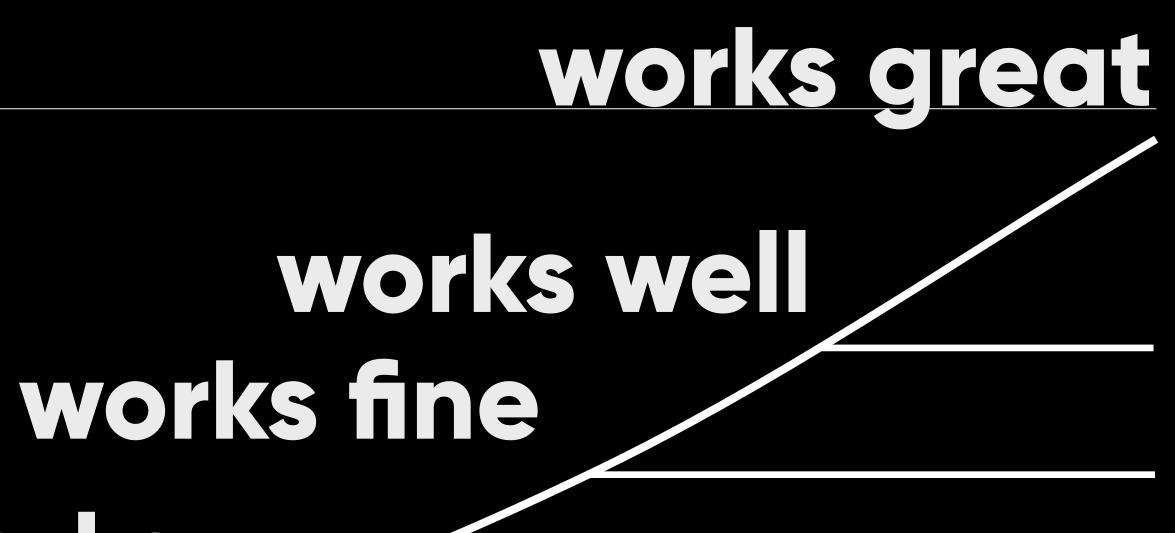
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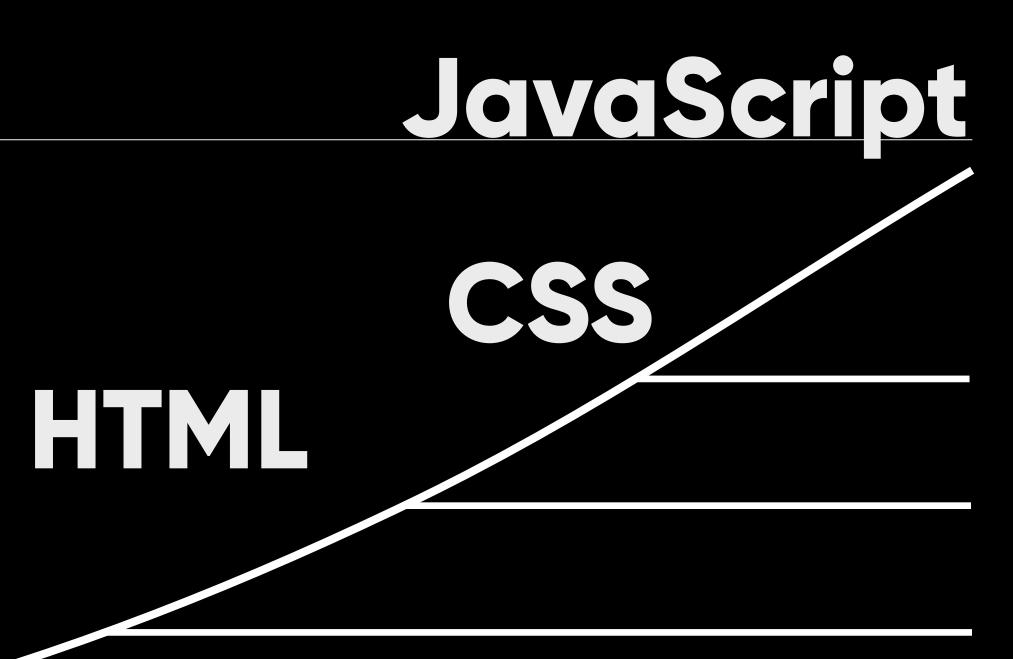
just about works

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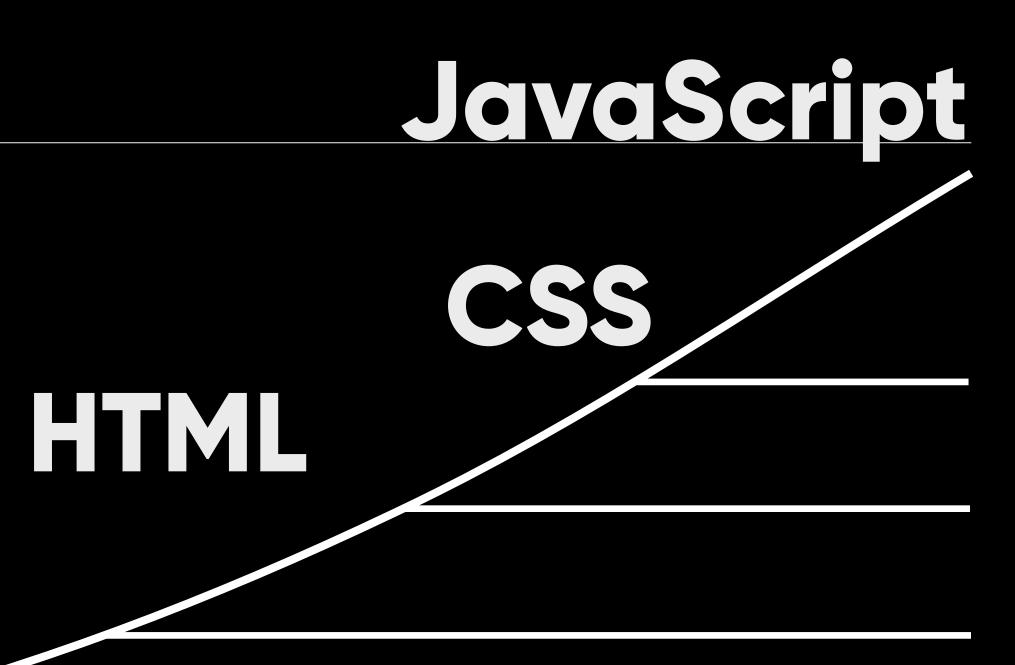










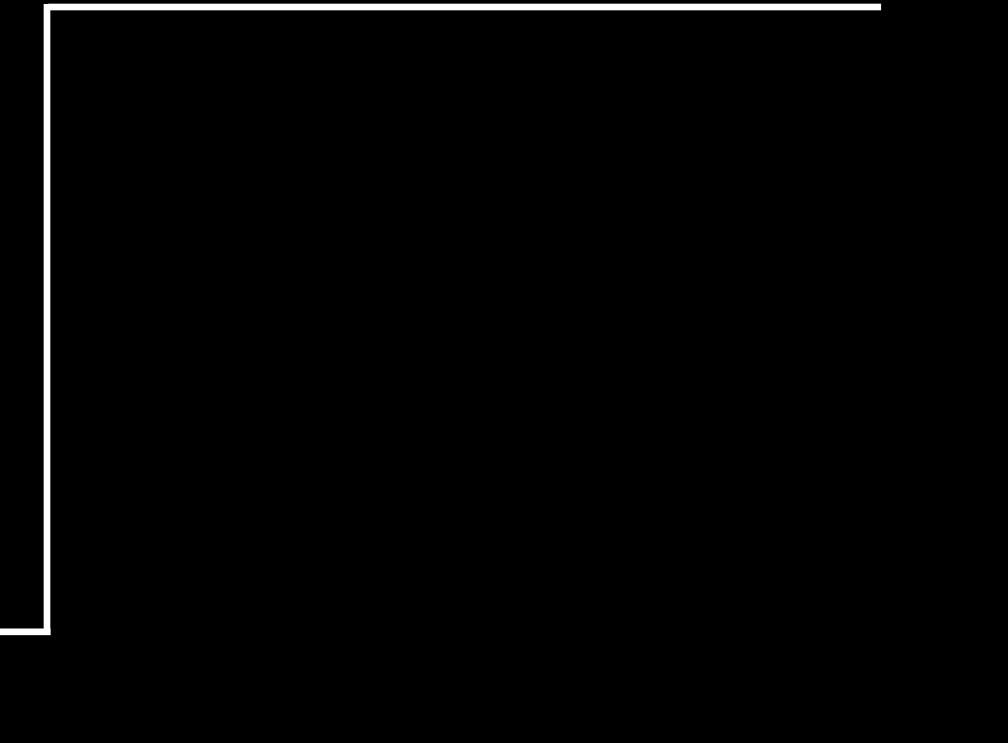


"Choose the least powerful language suitable for a given purpose."

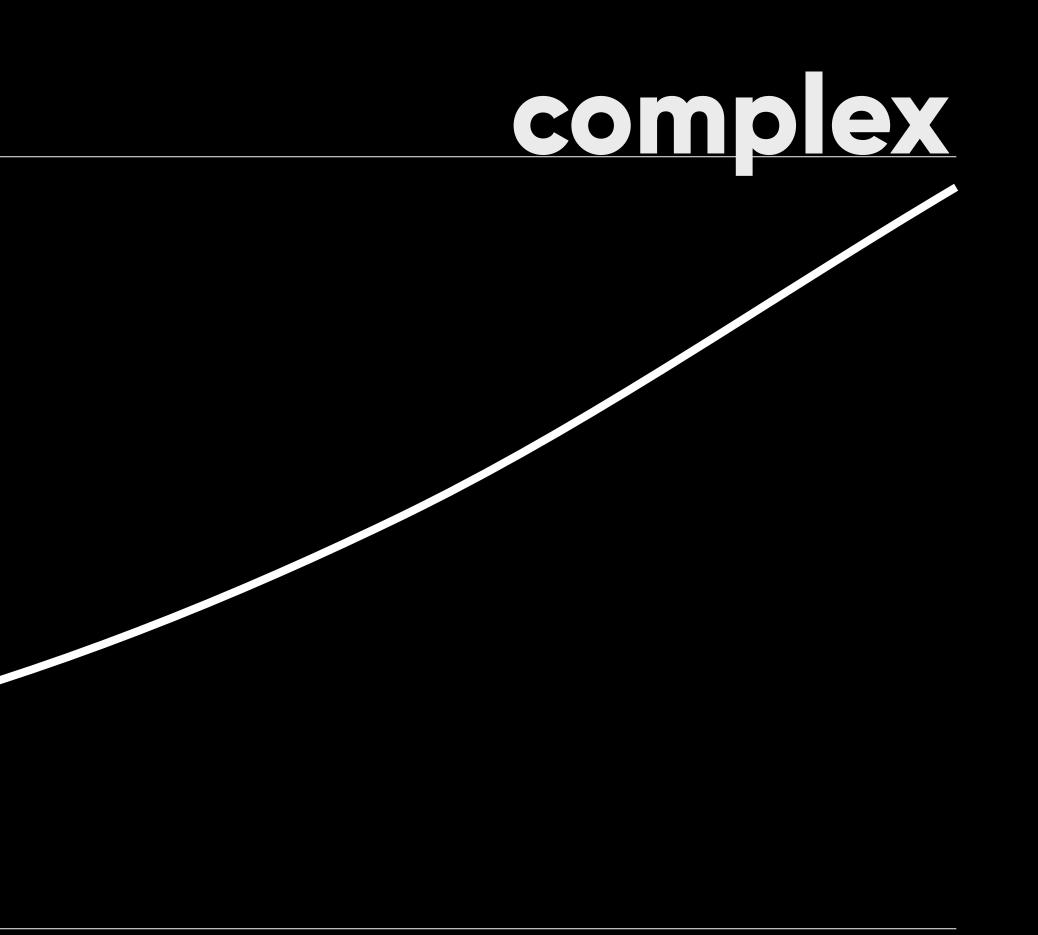
-Principle of Least Power



complex

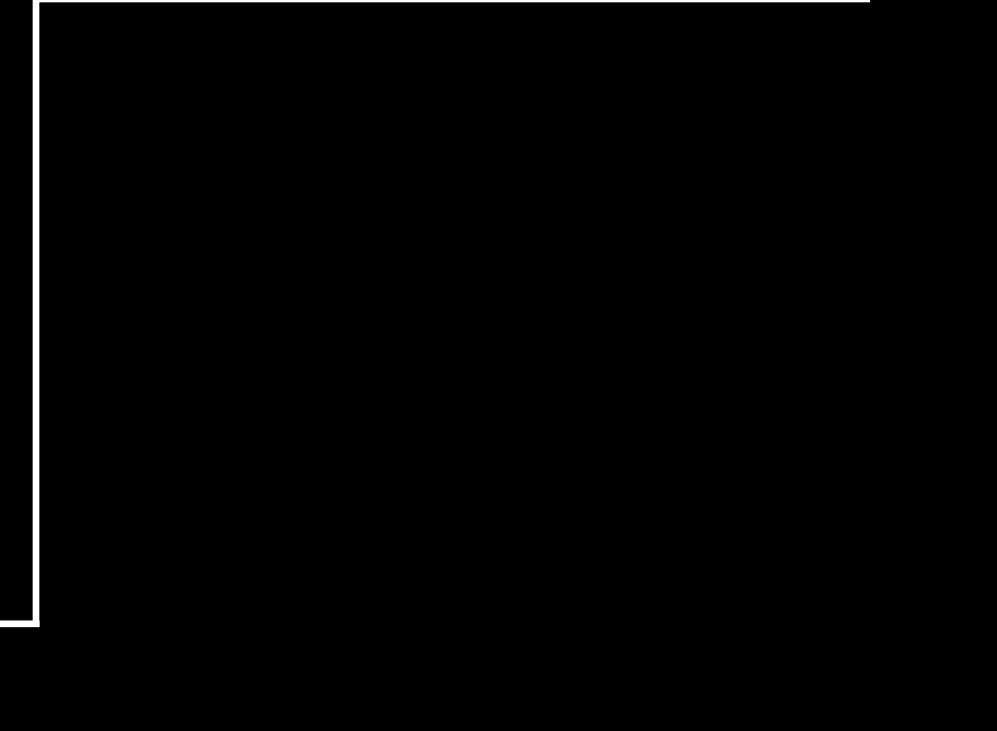




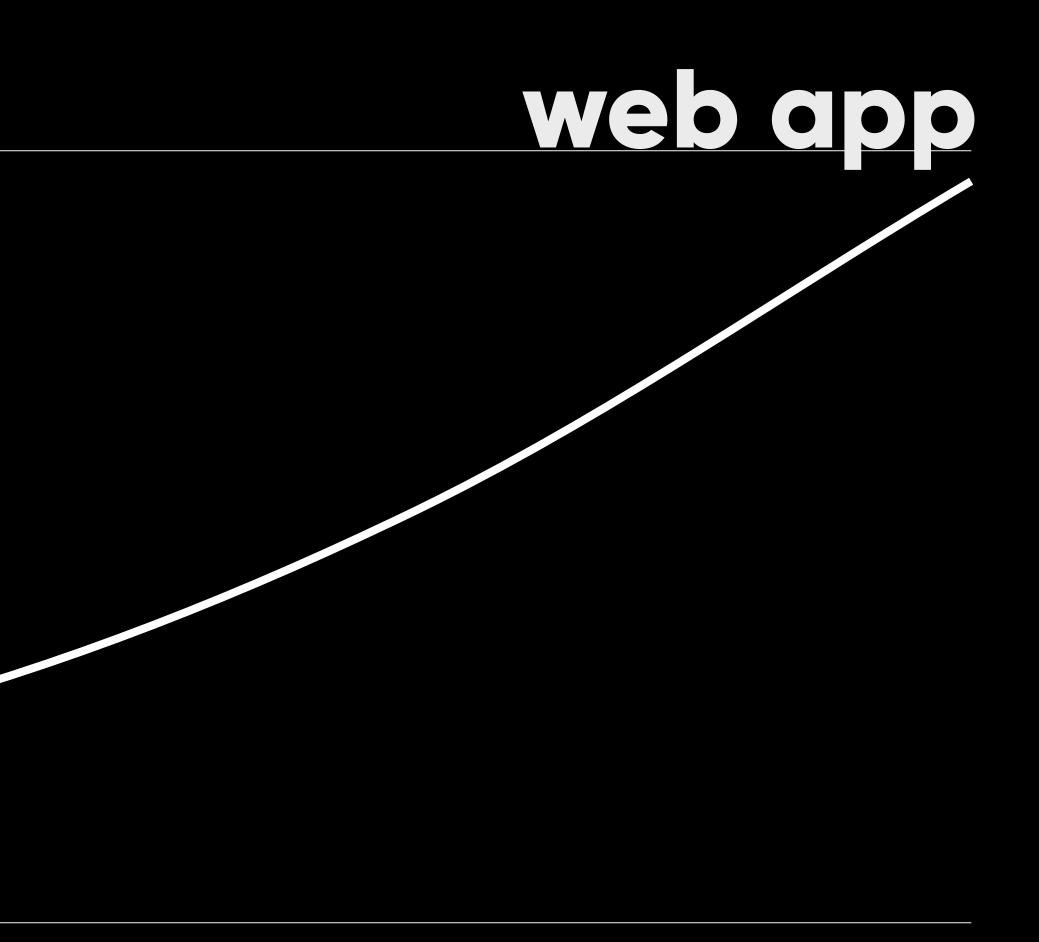




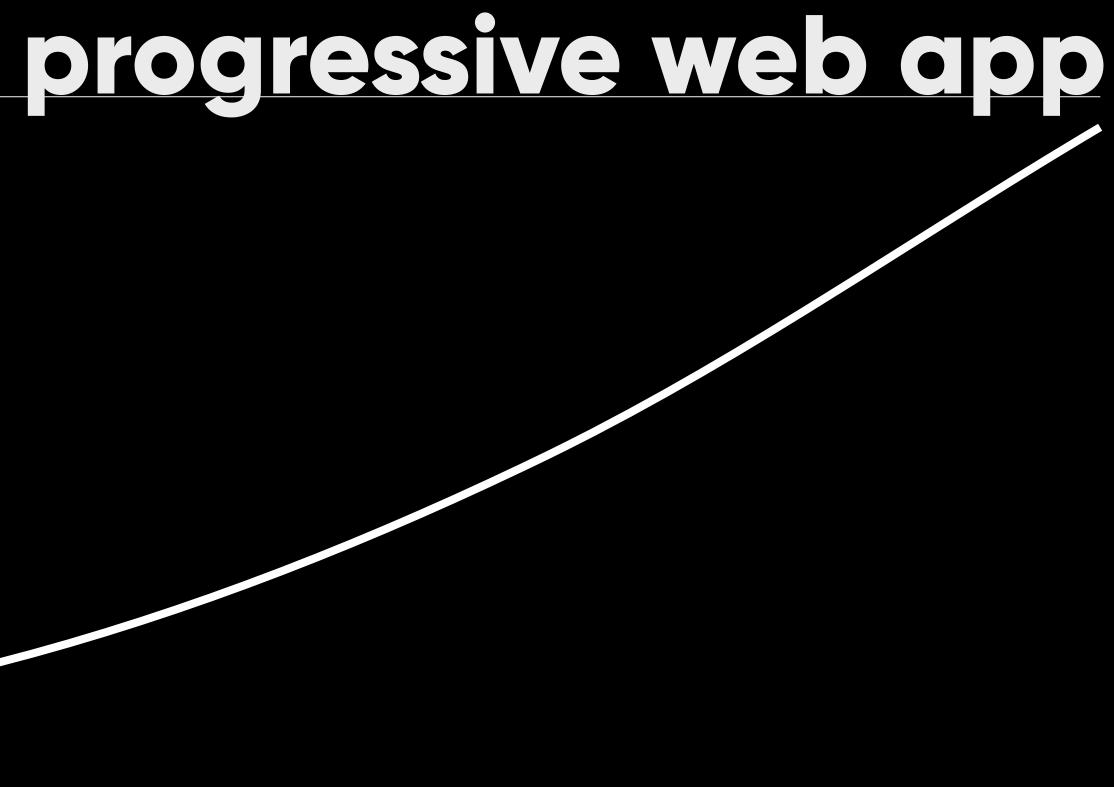
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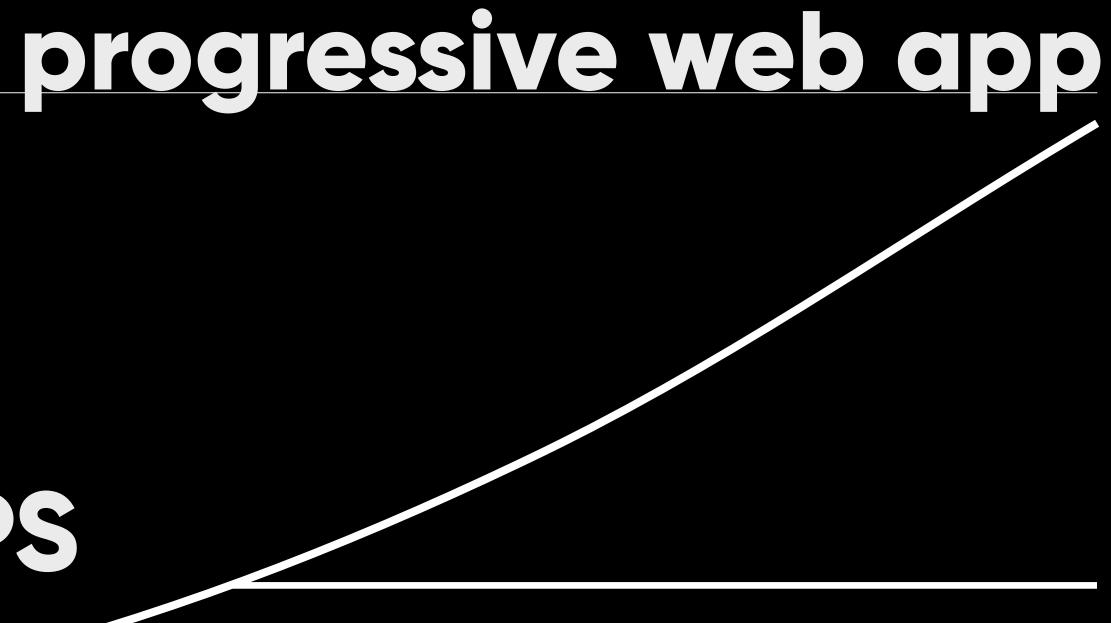






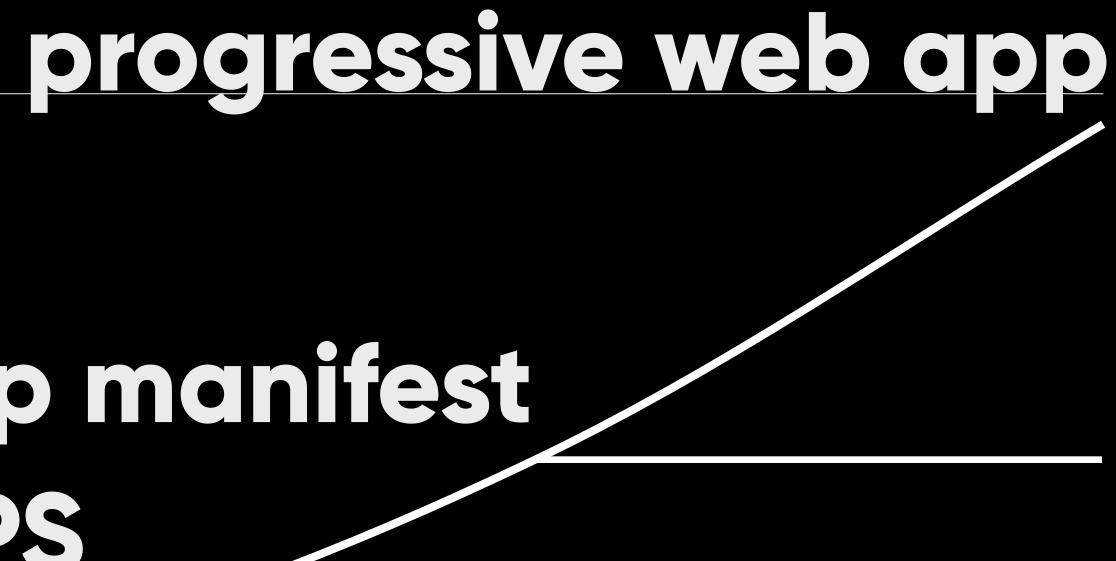


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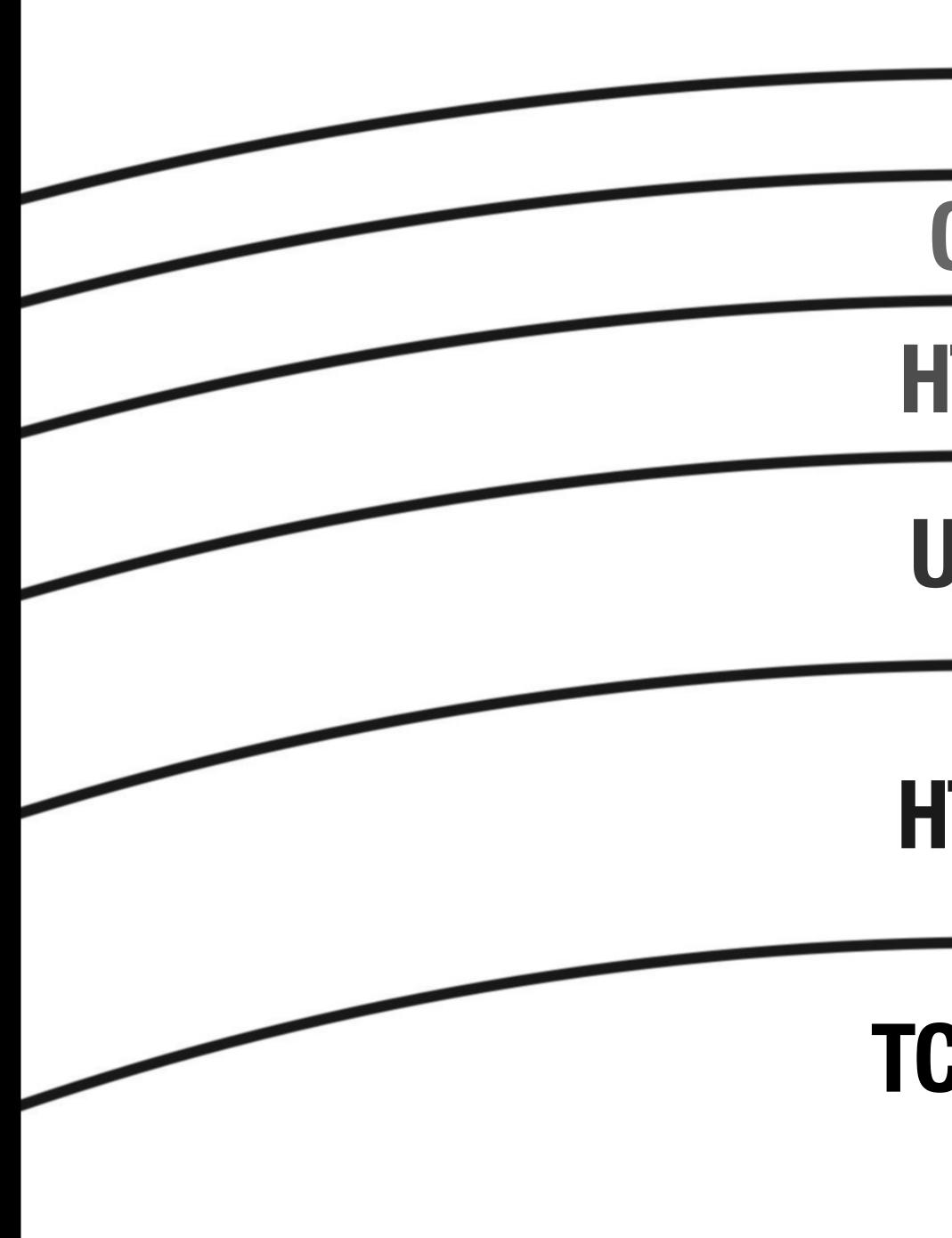


Jeremy Keith

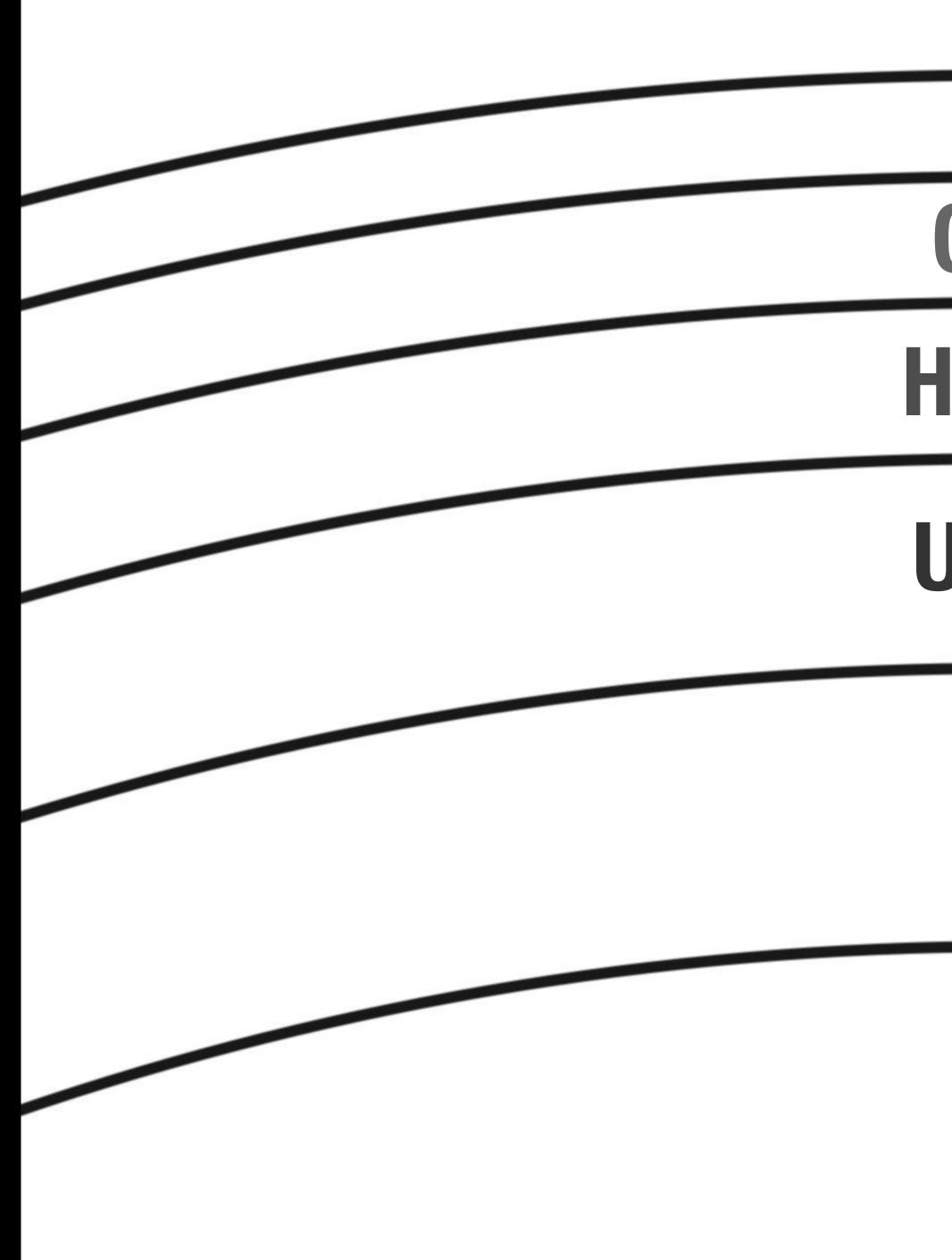


FOREWORD BY Aaron Gustafson

abookapart.com



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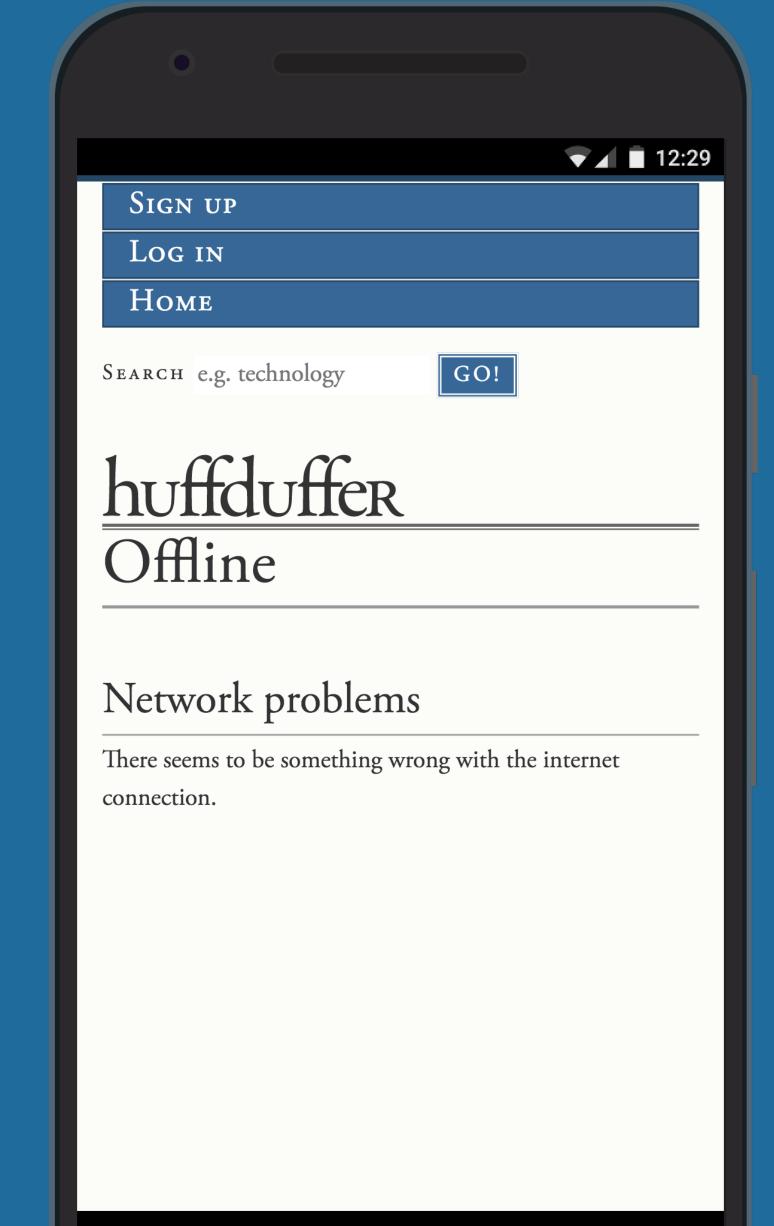


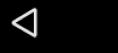
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huffduffer.com



huffeller.com





ampersand.com

"AMPERSAND"

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29 June 2018, Duke of York's Picturehouse, Brighton, UK

OFFLINE

 \bigtriangledown

Something seems to be up with the internet connection. Sorry about that.

Here's what you need to know about the Ampersand conference:

- Ampersand is happening on Friday, June 29th, 2018.
- It will be at the Duke of York's Picturehouse in Brighton, UK.

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trivago.com



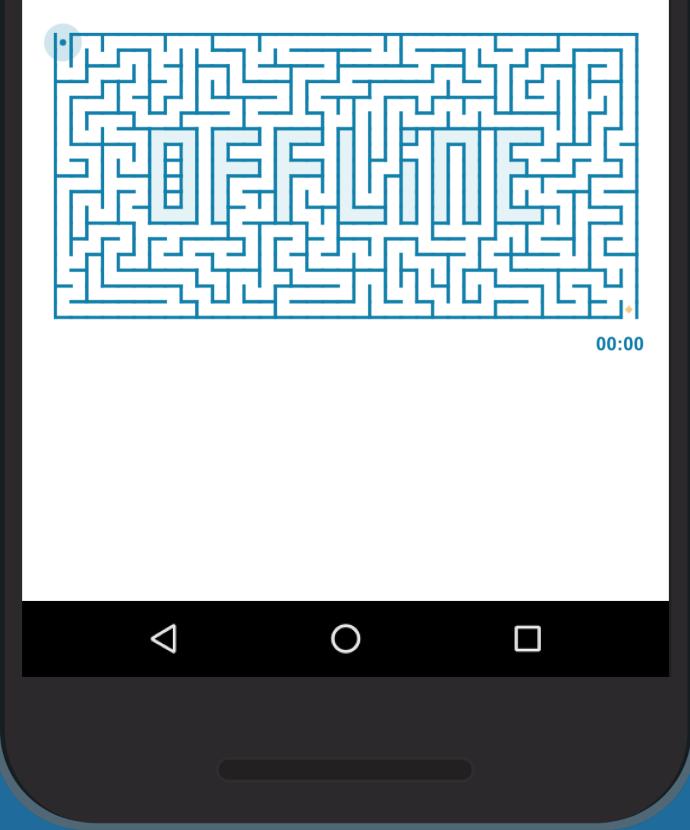
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You are currently offline

We will try to reconnect you in 10 second(s)...

Reconnect

In the meantime, how about a trip in the offline maze?



resilient webdesign.com

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RESILIENT WEB DESIGN

CHAPTER 1:

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Foundations

THE HISTORY OF HUMAN

civilisation is a tale of cumulative effort. Each generation builds upon the work of their forebears. Sometimes the work takes a backward step. Sometimes we wander down dead ends. But we struggle on. Bit by bit our species makes progress. Whether the progress is incremental or a huge leap forward, it is always borne upon the accomplishments of those who came before us.

Nowhere is this layered nature of progress more apparent than in the history of technology. Even the most dramatic bounds in technological advancement are only possible when there is some groundwork to build upon.

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adactio.com

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adactio

Journal Links Articles Notes About



Jeremy Keith

Making <u>websites</u>. Writing <u>books</u>. Speaking at <u>conferences</u>. Living in <u>Brighton</u>. Working at <u>Clearleft</u>. Playing <u>music</u>.

Taking <u>photos</u>. Answering <u>email</u>.

Journal	2431	Muliman
Links	7100	MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM
Articles	68	L. M. M. M. M. M. M.
Notes	3532	More

Friday, January 12th, 2018

 \bigtriangledown

Saving Your Web Workflows with Prototyping • Matthias Ott – User Experience Designer

A well-written (and beautifully designed) article on the nature of the web, and what that means for those of us who build upon it. Matthias builds on the idea of <u>material honestly</u> and concludes that designing through prototypes—rather than making pictures of

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adactio.com

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adactio

Journal Links Articles Notes About

Offline

Sorry. It looks like the network connection isn't working right now.

But you still have something to read:

Books I read in 2017

An equal mix of fiction and non-fiction.

December 28th, 2017

Evaluating Technology

A presentation from the Beyond Tellerrand conference held in Düsseldorf in May 2017. I also presented a version of this talk at An Event Apart, Smashing Conference, Render, Frontend United, and From The Front.

September 19th, 2017

Hackweather

 \bigtriangledown

Thunder and lightning, very very frightening me, Galileo.

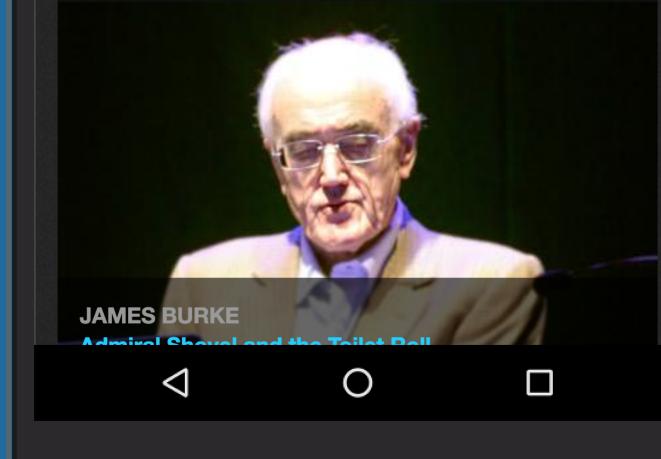
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June 16th, 2007



Featured talks

MANDY BROWN Hypertext as an Agent of Change



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About this talk

Thomas Pynchon. The Anthropocene. Ferguson. Geoheliocentrism. Teju Cole. Thomas Kuhn's theory of paradigms. Antigone. A wall. The sixth extinction.

The ways we transmit information—and the ways in which that information accumulates into narratives—is changing. And if we aren't careful, it may not change in all the ways we want it to.

Huffduff it Download mp3

Save offline

Photo by Tom Morris

About Mandy Brown

 \bigtriangledown

Mandy Brown is a wordsmith. She takes other people's words and hammers them into shape.

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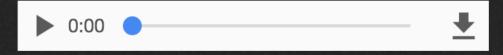
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MANDY BROWN

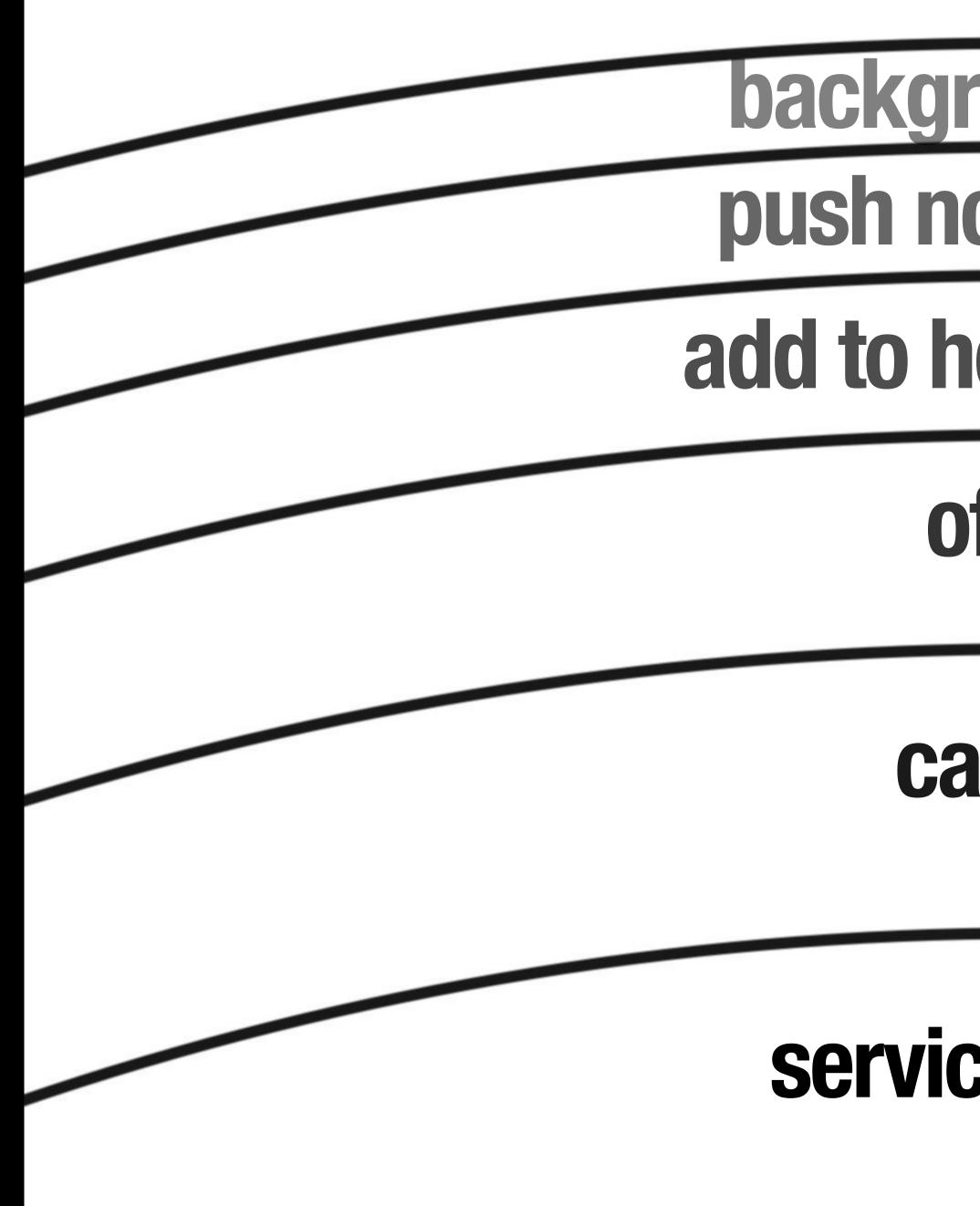
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Hypertext as an Agent of Change



Thomas Pynchon. The Anthropocene. Ferguson. Geoheliocentrism. Teju Cole. Thomas Kuhn's theory of paradigms. Antigone. A wall. The sixth extinction. The ways we transmit information—and the ways in which that information accumulates into narratives—is changing. And if we aren't careful, it may not change in all the ways we want it to.

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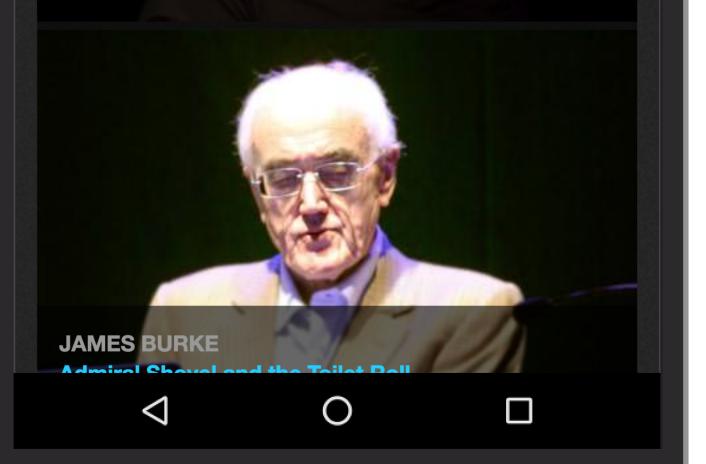
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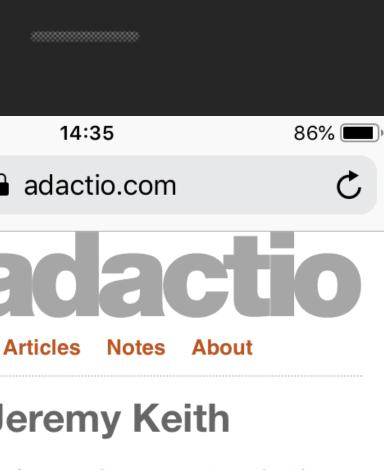


Featured talks

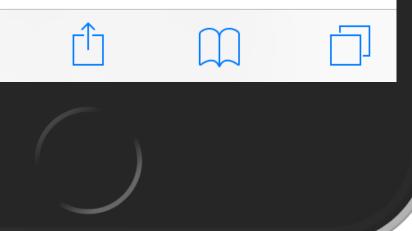
MANDY BROWN Hypertext as an Agent of Change



💵 Three WiFi Call 🗢 14:35 \equiv adactio.com adactio Journal Links Articles Notes About Jeremy Keith Making <u>websites</u>. Writing <u>books</u>. Speaking at events. Living in **Brighton**. Working at <u>Clearleft</u>. Playing <u>music</u>. Taking photos. Answering email. Journal 253 Links 785 Articles 72 Notes 405 Wednesday, January 16th, 2019 **Security Checklist**



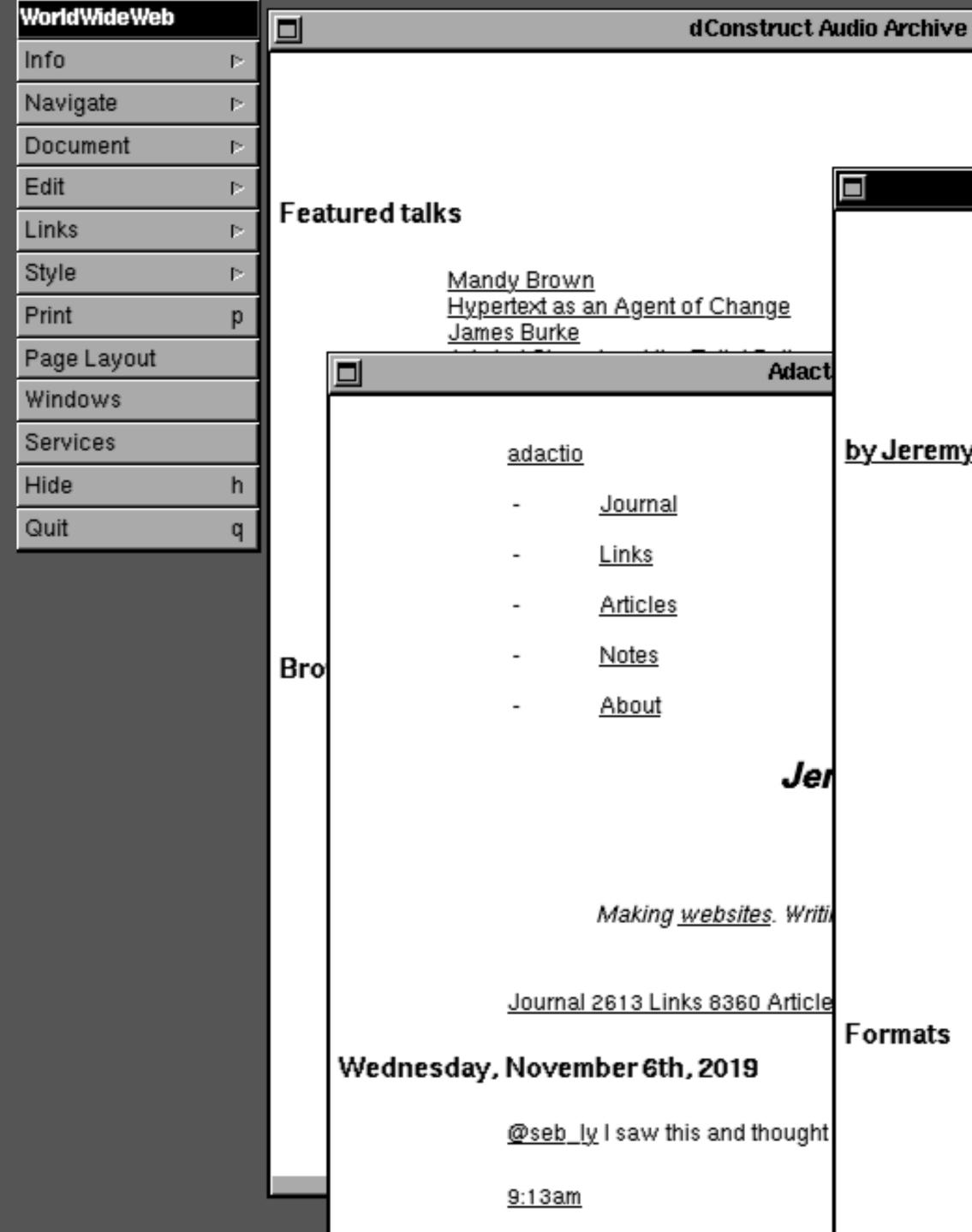
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Resilient web design

by Jeremy Keith







Resilient Web Design

<u>Resilient web design</u>

by Jeremy Keith

- Introduction -
- Chapter 1 Foundations
- Chapter 2 Materials
- Chapter 3 Visions
- Chapter 4 Languages -
- <u>Chapter 5 Layers</u>
- Chapter 6 Steps
- Chapter 7 Challenges -
- About the author
- <u>Index</u>

This is a web book, designed to be read on the web (with or without an internet connection). So you can start reading now. But if you'd prefer to have a copy of this book in another format, you can download a PDF in portrait format (7MB) or a PDF in landscape format (19.9MB). There's also an EPUB version (4.4MB) and a MOBI version (10.4MB).

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WorldWideWeb	
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World Wide Web

The WorldWideWeb (W3) is a wide-area <u>hypermedia</u> information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an <u>executive summary</u> of the project, <u>Mailing lists</u>, <u>Policy</u>, November's <u>W3</u> <u>news</u>, <u>Frequently Asked Questions</u>.

What's out there?

<u>Help</u>

Software Products

Technical

<u>Bibliography</u>

People

<u>History</u>

How can I help ?

Getting code

Pointers to the world's online information, subjects, W3 servers, etc.

on the browser you are using

A list of W3 project components and their current state. (e.g. <u>Line Mode</u>,X11 <u>Viola</u>, <u>NeXTStep</u>, <u>Servers</u>, <u>Tools</u>, <u>Mail robot</u> <u>, Library</u>)

Details of protocols, formats, program internals etc

Paper documentation on W3 and references.

A list of some people involved in the project.

A summary of the history of the project.

If you would like to support the web..

Getting the code by <u>anonymous FTP</u> , etc.

☆ Incogni
Not Secure — info.cern.ch
a <u>hypermedia</u> information ref inked directly or indirectly to <u>news</u> , <u>Frequently Asked Que</u> ormation, <u>subjects</u> , <u>W3 serves</u> and their current state. (e.g. <u>L</u> gram internals etc references. the project.
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	A list of W3 project components and their current state. (e.g. Line Mode ,X11 Viola , NeXTStep , Servers , Tools , Mail robot , Library)
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	How can I help ? If you would like to support the web
	Getting code Getting the code by anonymous FTP, etc.





Indink you

