

# The State Of The Web

**What a terrible year!**



**1968**



# Lovell Borman Anders









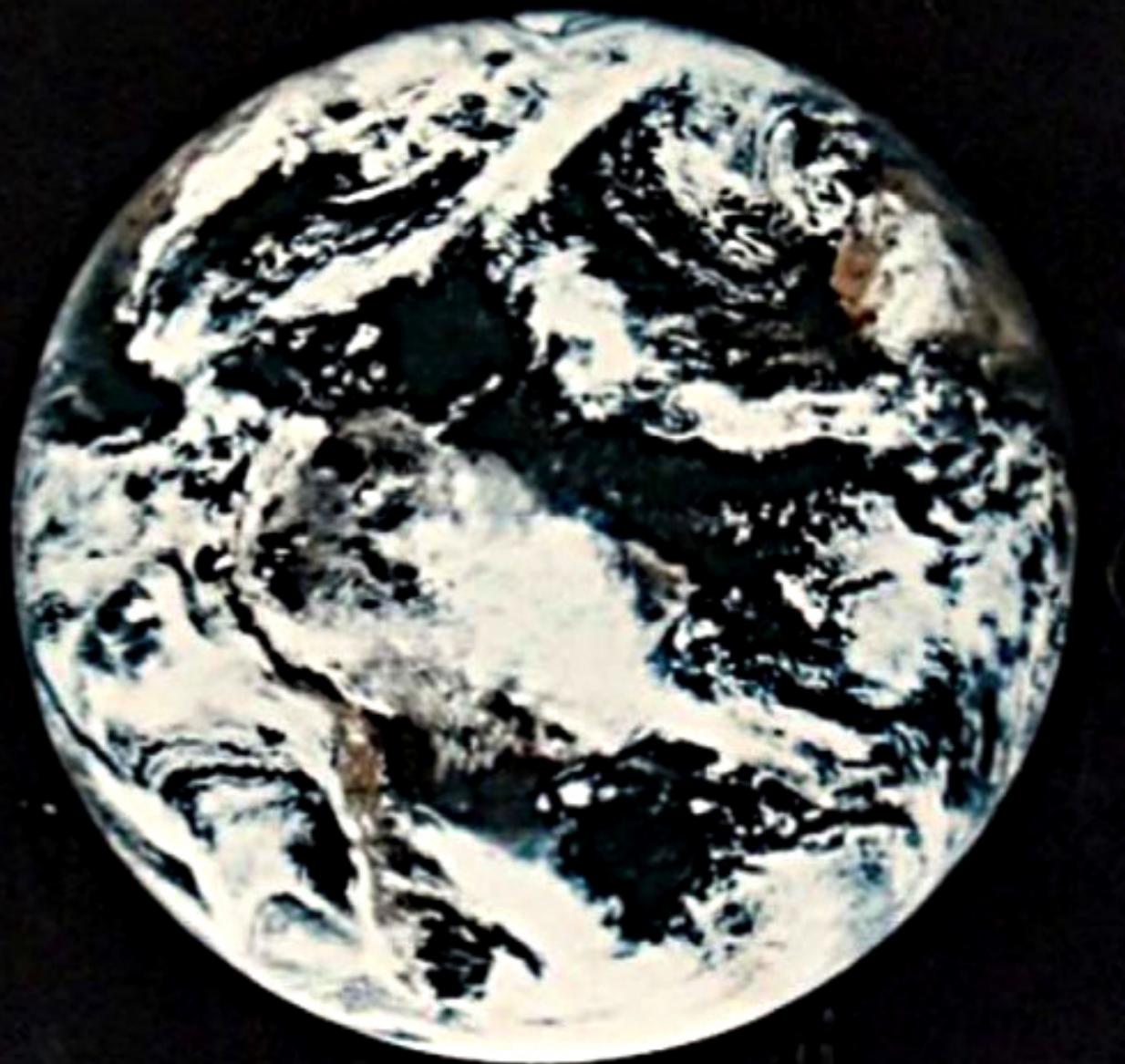
*Why haven't we  
seen a  
photograph  
of the whole  
Earth yet  
?*

*Why haven't we  
seen a  
photograph  
of the whole  
Earth yet  
?*



# WHOLE EARTH CATALOG

*access to tools*



Fall 1968

\$5

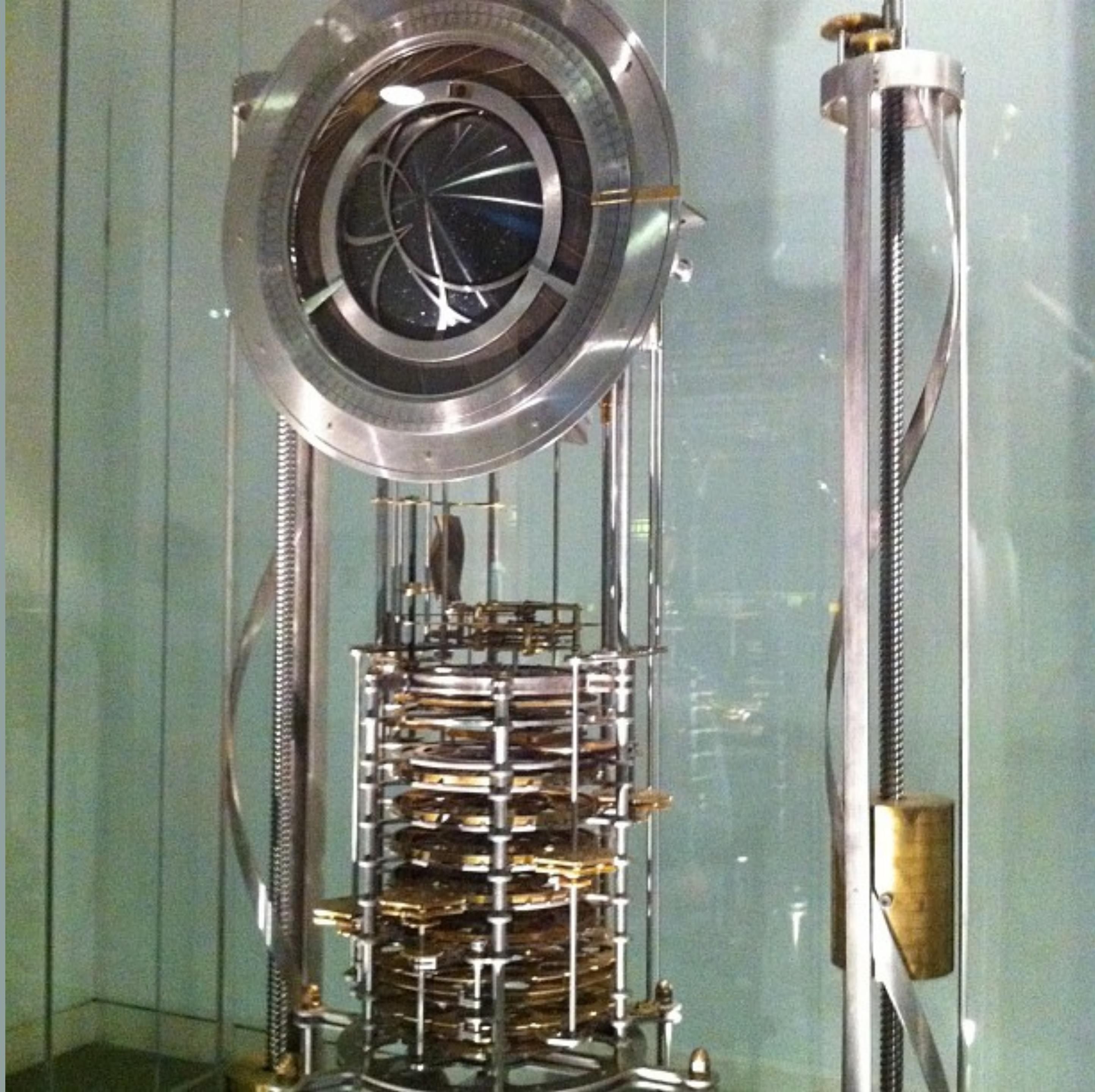


[www.longnow.org](http://www.longnow.org)



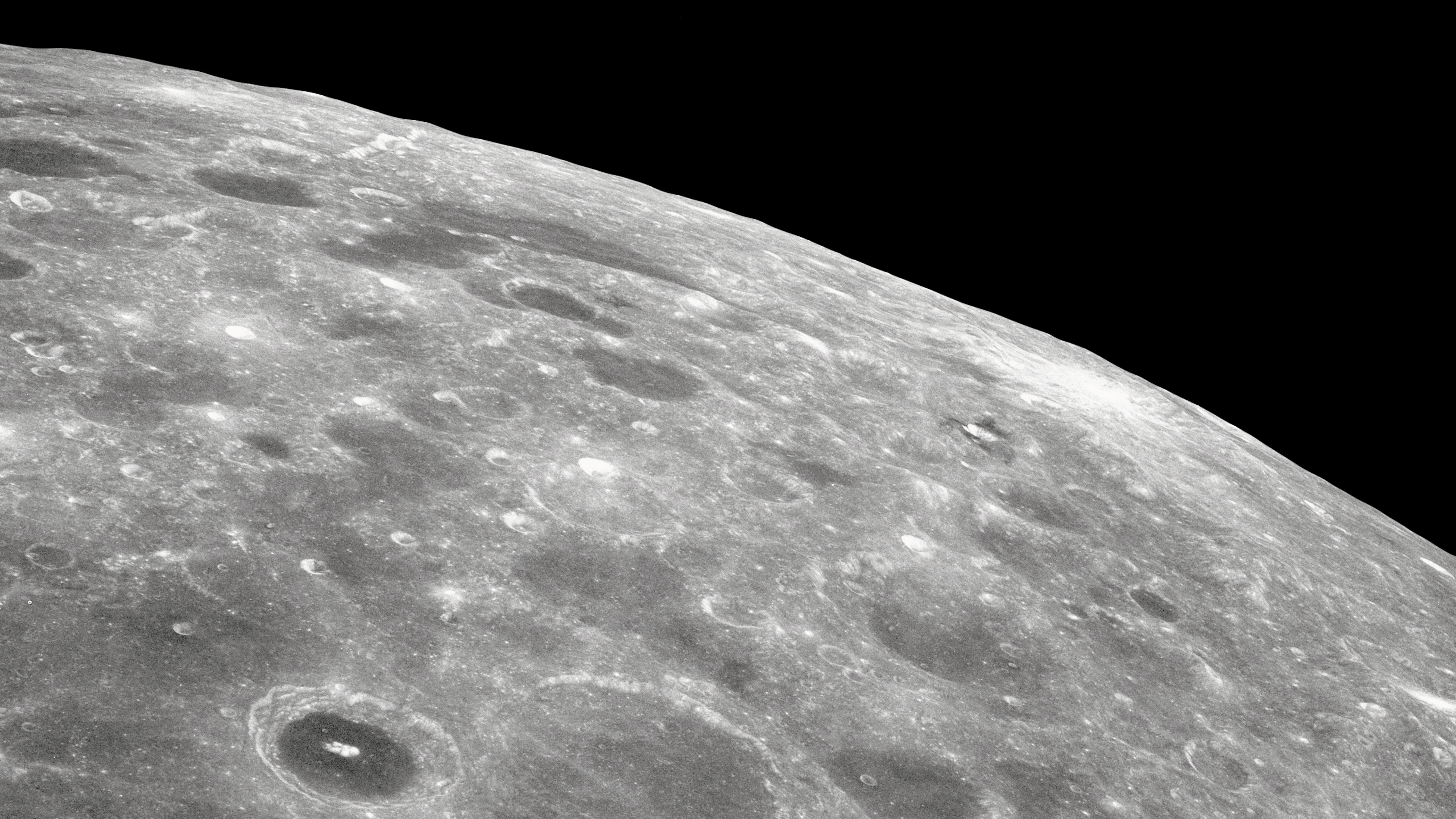
3121

*member*









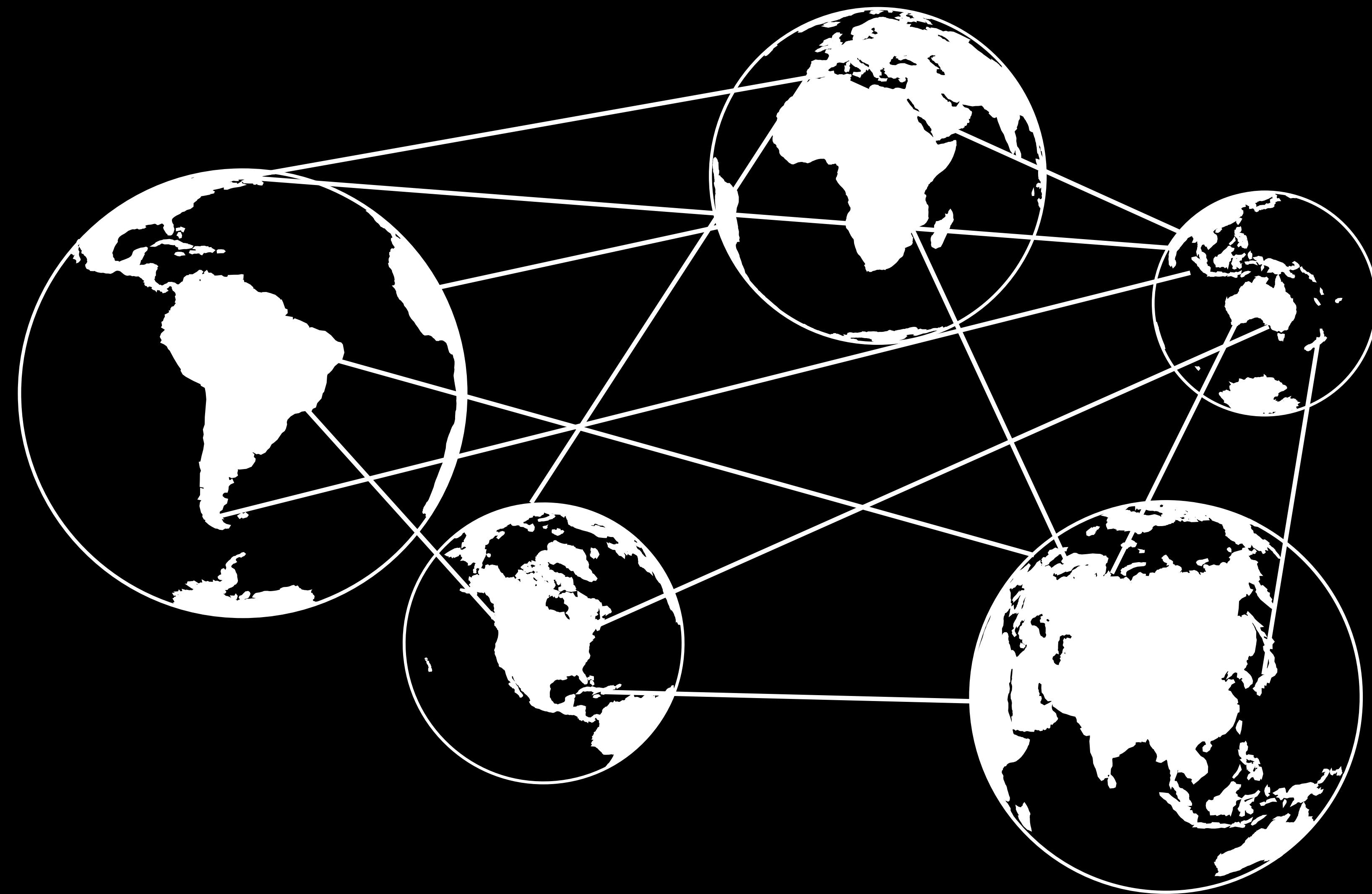
Había sido el mejor cumpleaños de mi vida!... 



EARTHRISE









FILE COPY DO NOT REMOVE

JULY 1945

THE

# Atlantic



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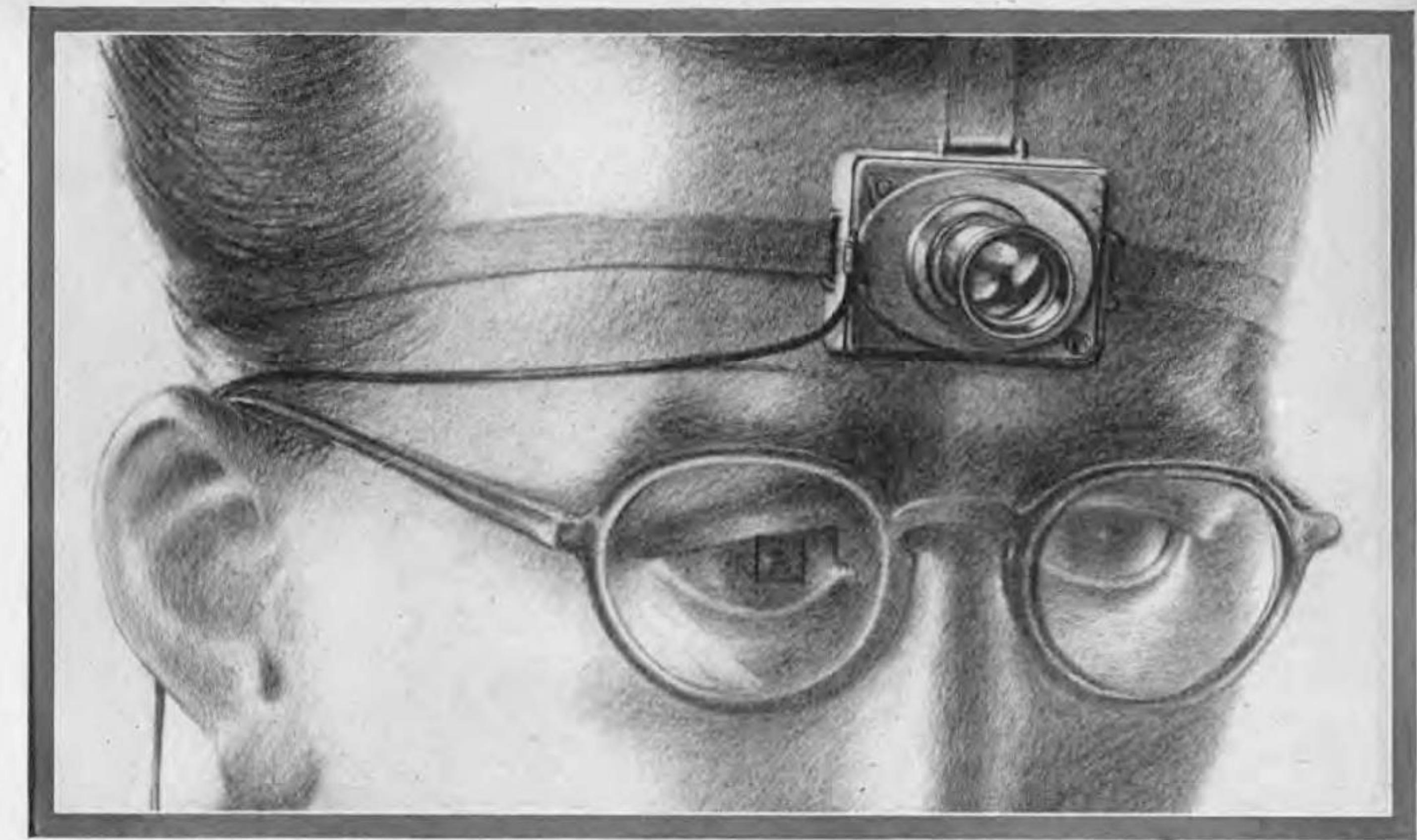
SUBSCRIPTION PRICE . . . . . \$5.00 PER YEAR

BUY A WAR BOND - TODAY

COMPANY



Vannevar Bush



A SCIENTIST OF THE FUTURE RECORDS EXPERIMENTS WITH A TINY CAMERA FITTED WITH UNIVERSAL-FOCUS LENS. THE SMALL SQUARE IN THE EYEGLASS AT THE LEFT SIGHTS THE OBJECT

# AS WE MAY THINK

## A TOP U. S. SCIENTIST FORESEES A POSSIBLE FUTURE WORLD IN WHICH MAN-MADE MACHINES WILL START TO THINK

by VANNEVAR BUSH

DIRECTOR OF THE OFFICE OF SCIENTIFIC RESEARCH AND DEVELOPMENT

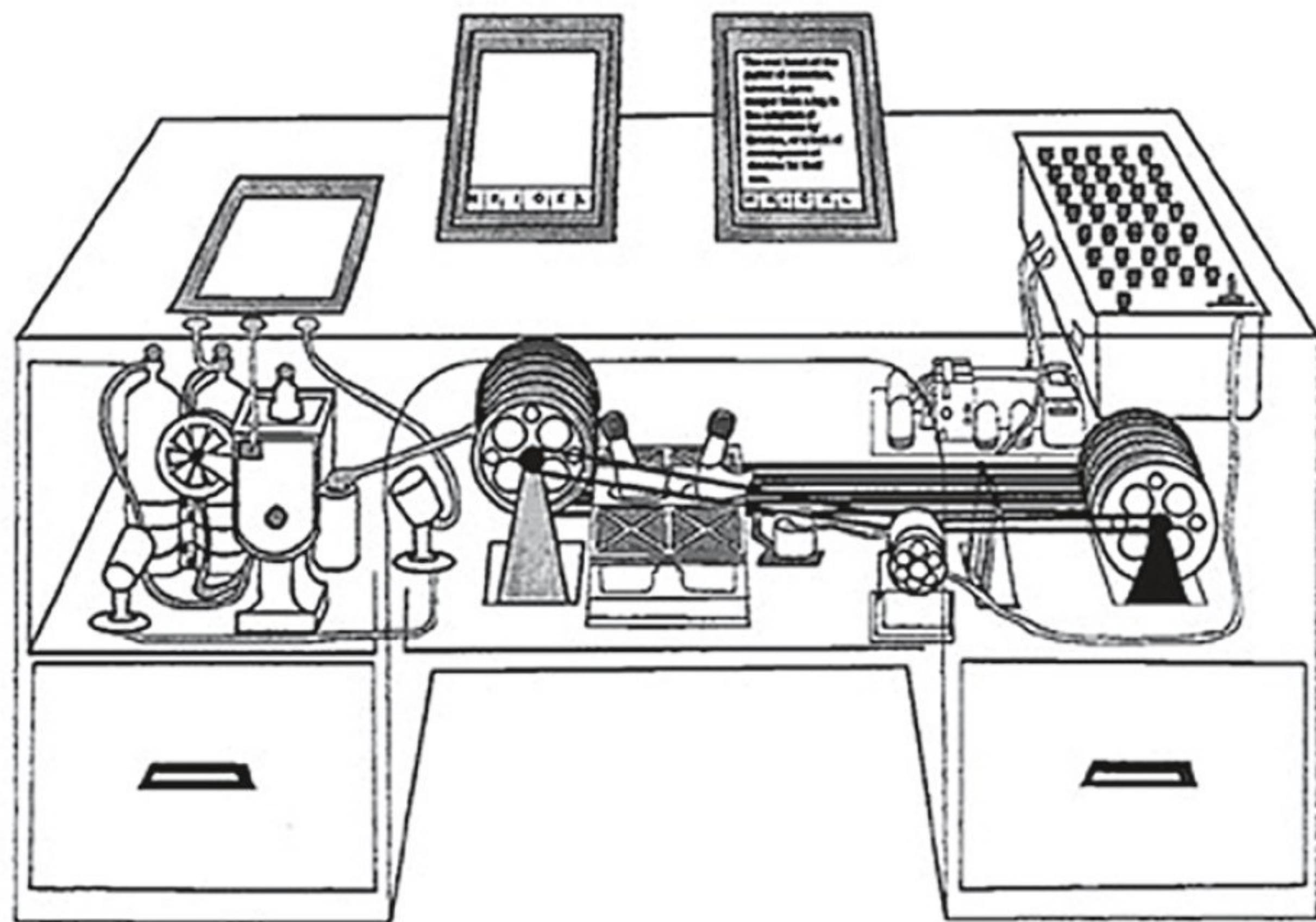
Condensed from the *Atlantic Monthly*, July 1945

This has not been a scientists' war; it has been a war in which all have had a part. The scientists, burying their old professional competition in the demand of a common cause, have shared greatly and learned much. It has been exhilarating to work in effective partnership. What are the scientists to do next?

ress, and the effort to bridge between disciplines is correspondingly superficial.

Professionally our methods of transmitting and reviewing the results of research are generations old and by now are totally inadequate for their purpose. If the aggregate time spent in writing scholarly works and in reading

# memex



memex

hypertext



# hypertext

Ted Nelson

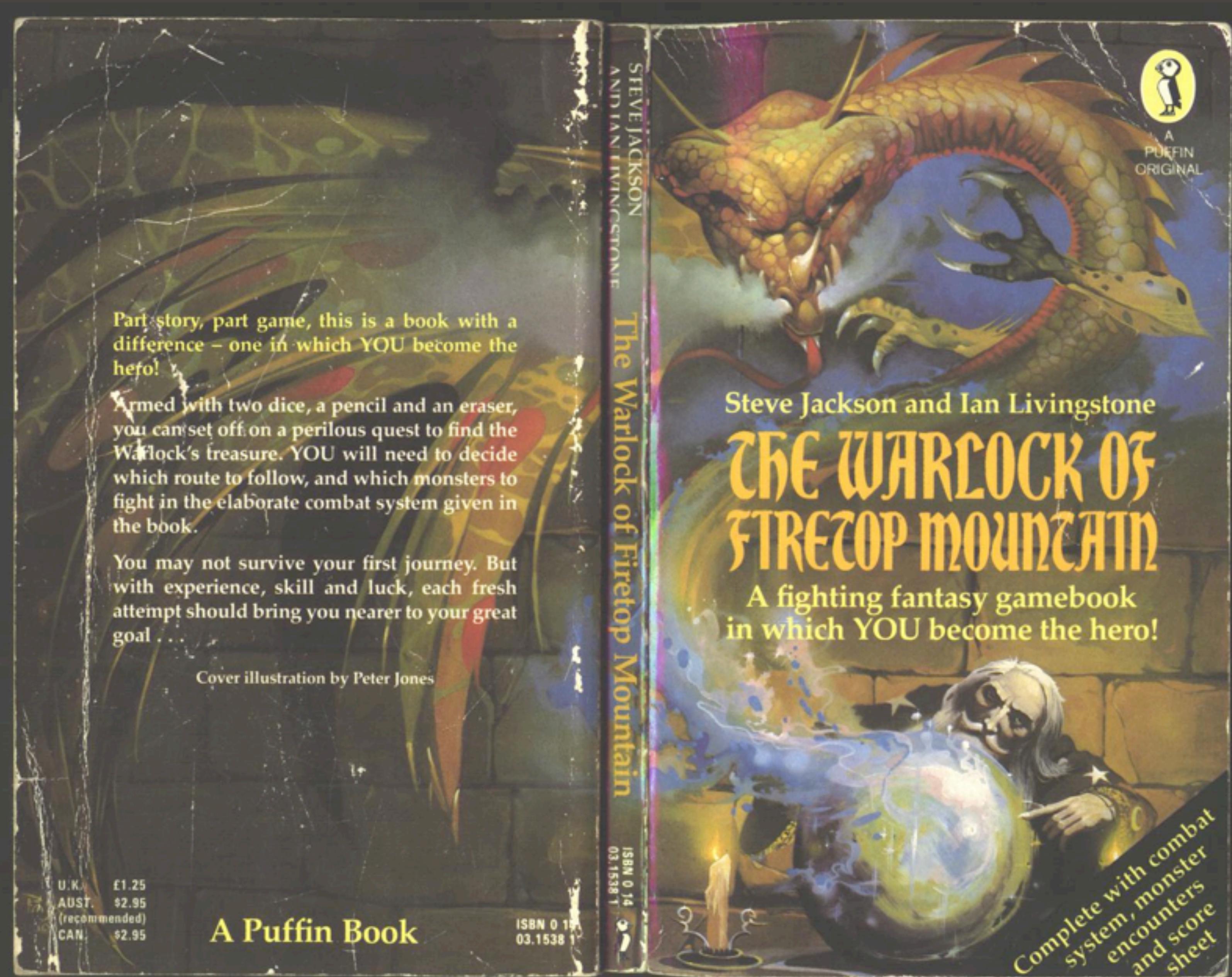


**Tim Berners-Lee**



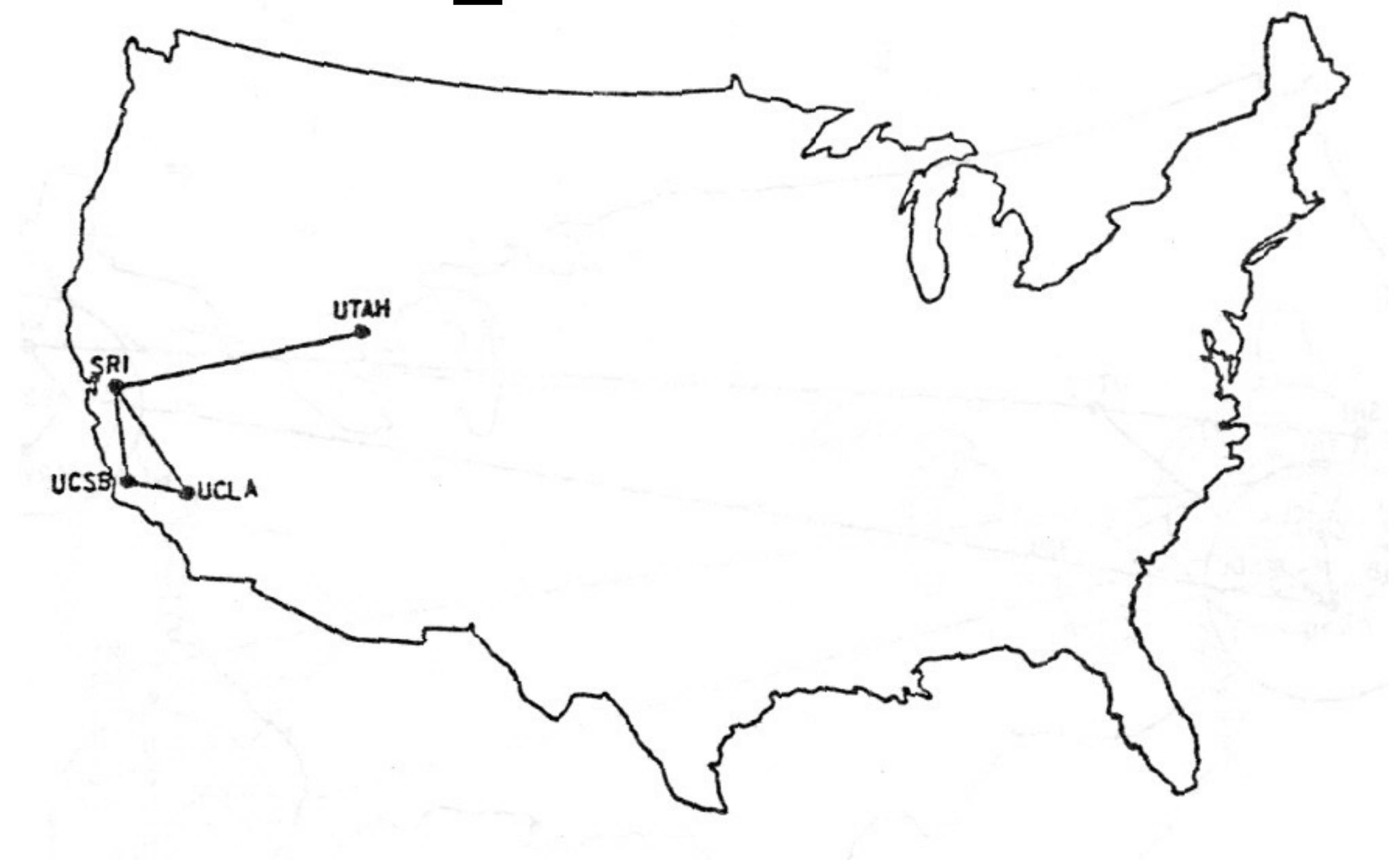
**DEMO**

Douglas Engelbart

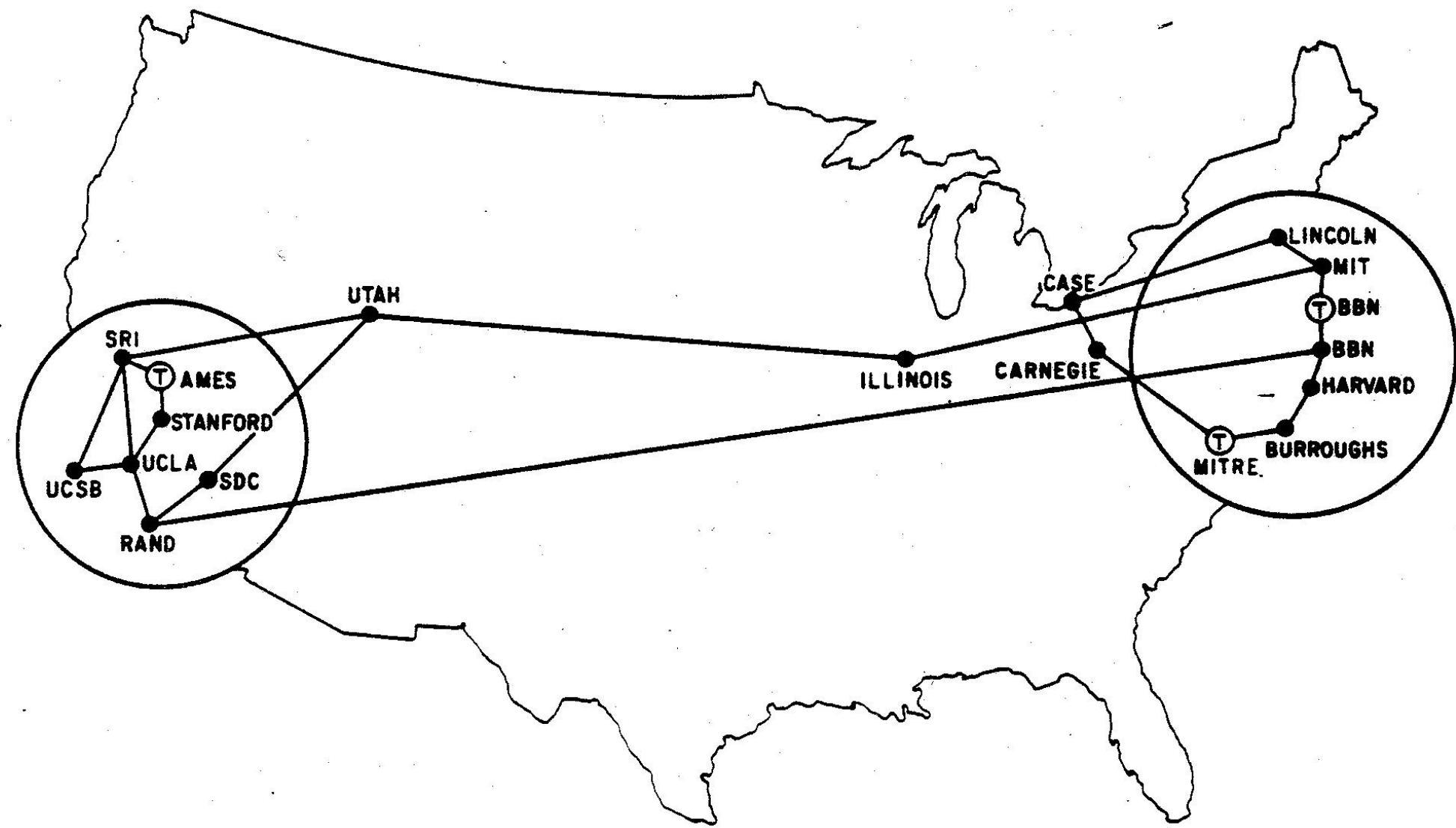


# networks

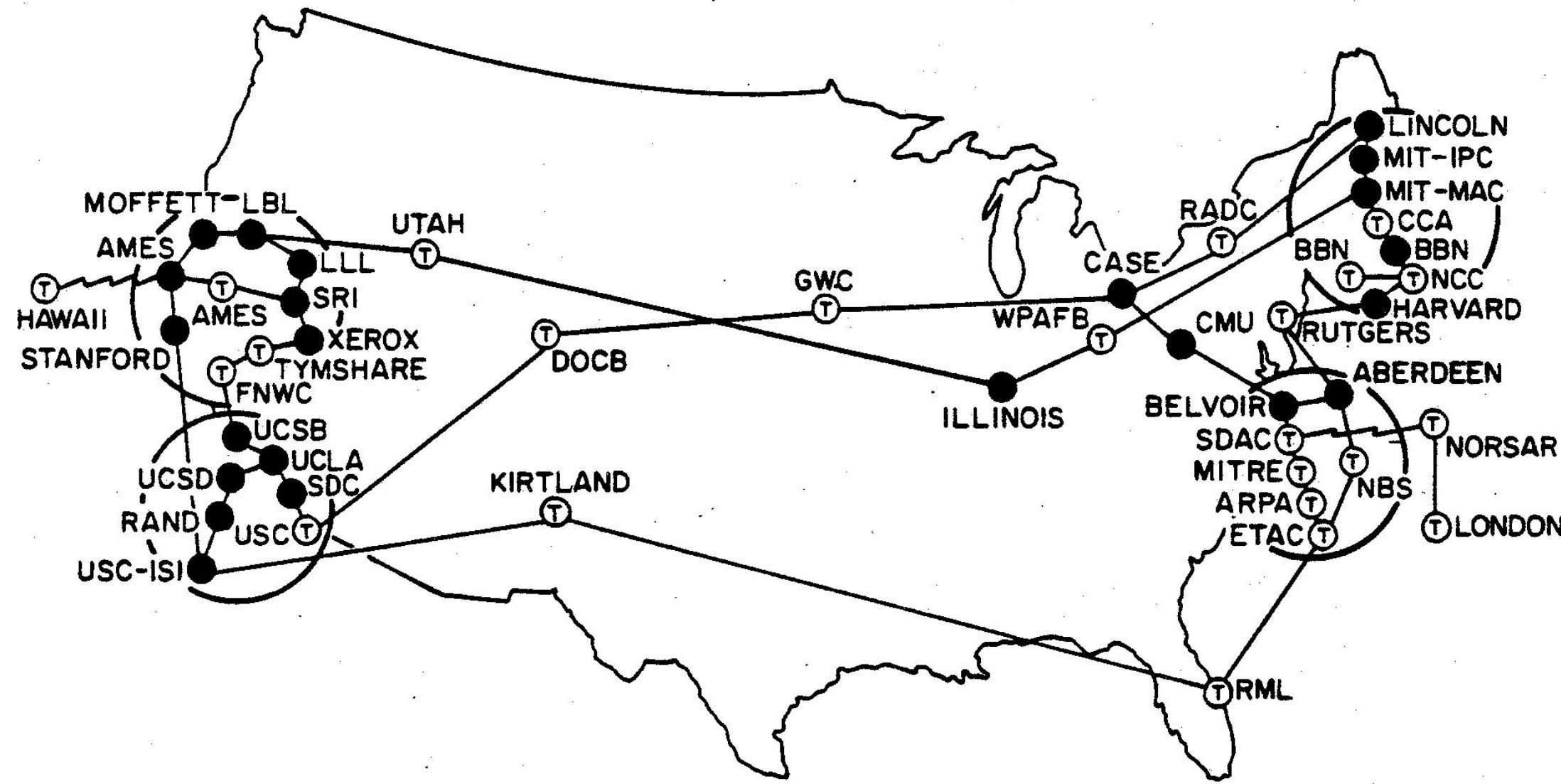
# arpanet



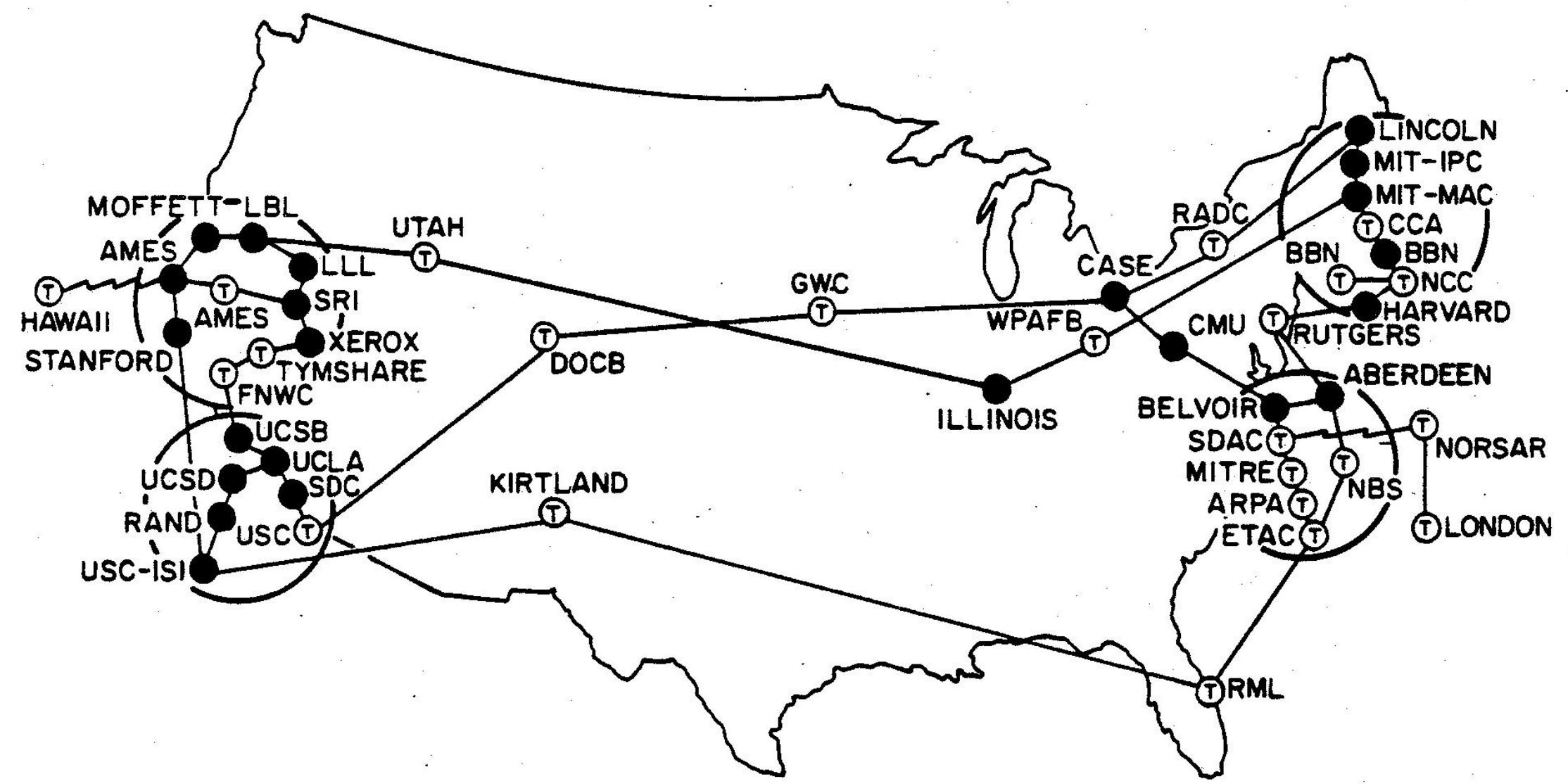
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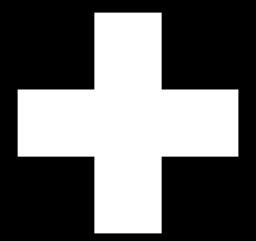
# arpanet



# internet



internet



hypertext

# World Wide Web

CERN DD/OC

Tim Berners-Lee, CERN/DD

Information Management: A Proposal

March 1989

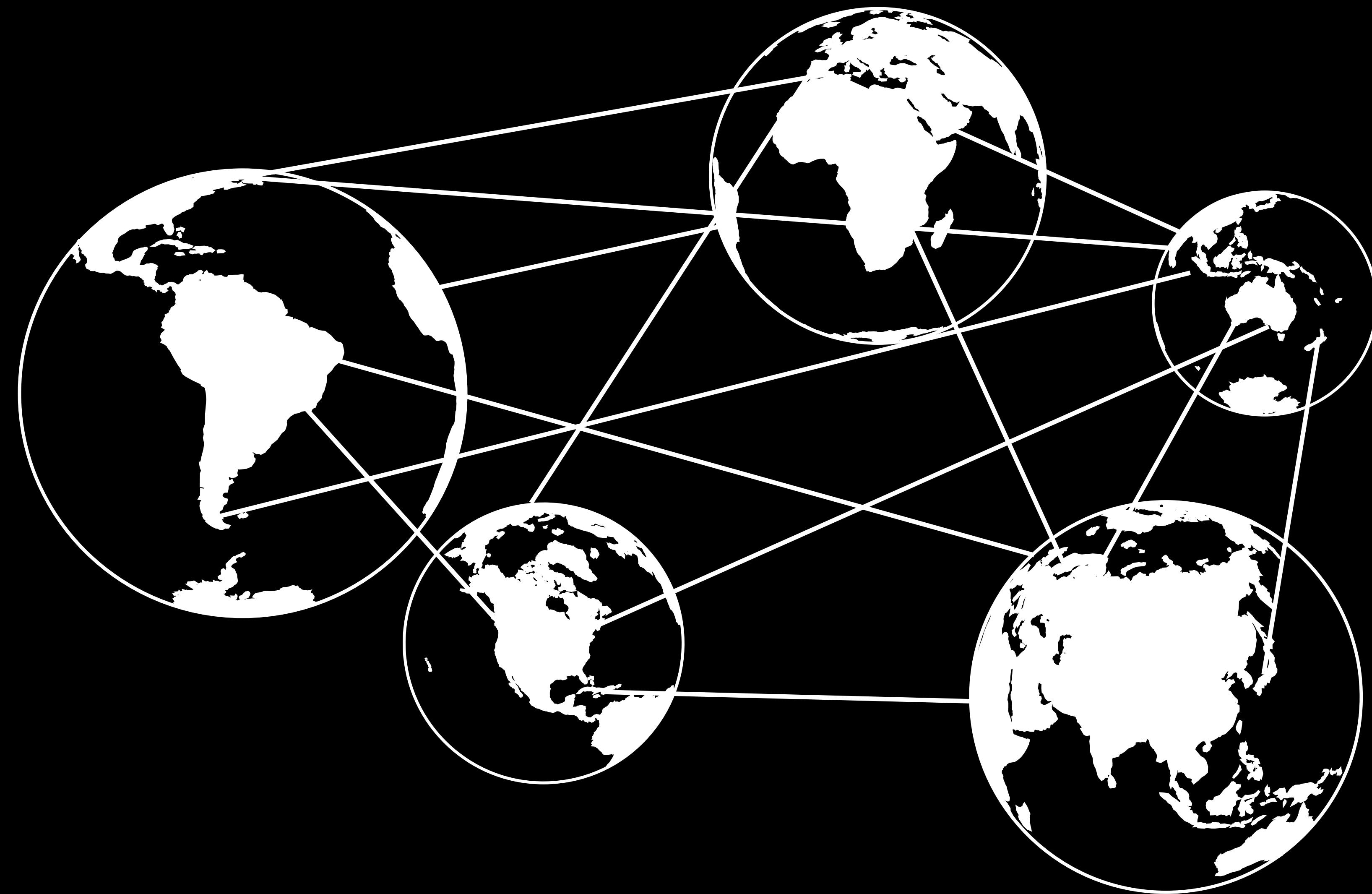
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# Information Management: A Proposal

## Abstract

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 system.

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



**WorldWideWeb**

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#CCFF00 rgb(204, 255, 0)	#CCCC00 rgb(204, 204, 0)	#CC9900 rgb(204, 153, 0)	#CC6600 rgb(204, 102, 0)	#CC3300 rgb(204, 51, 0)	#CC0000 rgb(204, 0, 0)	#660000 rgb(102, 0, 0)	#663300 rgb(102, 51, 0)	#666600 rgb(102, 102, 0)	#669900 rgb(102, 153, 0)	#66CC00 rgb(102, 204, 0)	#66FF00 rgb(102, 255, 0)	#00FF00 rgb(0, 255, 0)	#00CC00 rgb(0, 204, 0)	#009900 rgb(0, 153, 0)	#006600 rgb(0, 102, 0)	#003300 rgb(0, 51, 0)	#000000 rgb(0, 0, 0)
#CCFF33 rgb(204, 255, 51)	#CCCC33 rgb(204, 204, 51)	#CC9933 rgb(204, 153, 51)	#CC6633 rgb(204, 102, 51)	#CC3333 rgb(204, 51, 51)	#CC0033 rgb(204, 0, 51)	#660033 rgb(102, 0, 51)	#663333 rgb(102, 51, 51)	#666633 rgb(102, 102, 51)	#669933 rgb(102, 153, 51)	#66CC33 rgb(102, 204, 51)	#66FF33 rgb(102, 255, 51)	#00FF33 rgb(0, 255, 51)	#00CC33 rgb(0, 204, 51)	#009933 rgb(0, 153, 51)	#006633 rgb(0, 102, 51)	#003333 rgb(0, 51, 51)	#000033 rgb(0, 0, 51)
#CCFF66 rgb(204, 255, 102)	#CCCC66 rgb(204, 204, 102)	#CC9966 rgb(204, 153, 102)	#CC6666 rgb(204, 102, 102)	#CC3366 rgb(204, 51, 102)	#CC0066 rgb(204, 0, 102)	#660066 rgb(102, 0, 102)	#663366 rgb(102, 51, 102)	#666666 rgb(102, 102, 102)	#669966 rgb(102, 153, 102)	#66CC66 rgb(102, 204, 102)	#66FF66 rgb(102, 255, 102)	#00FF66 rgb(0, 255, 102)	#00CC66 rgb(0, 204, 102)	#009966 rgb(0, 153, 102)	#006666 rgb(0, 102, 102)	#003366 rgb(0, 51, 102)	#000066 rgb(0, 0, 102)
#CCFF99 rgb(204, 255, 153)	#CCCC99 rgb(204, 204, 153)	#CC9999 rgb(204, 153, 153)	#CC6699 rgb(204, 102, 153)	#CC3399 rgb(204, 51, 153)	#CC0099 rgb(204, 0, 153)	#660099 rgb(102, 0, 153)	#663399 rgb(102, 51, 153)	#666699 rgb(102, 102, 153)	#669999 rgb(102, 153, 153)	#66CC99 rgb(102, 204, 153)	#66FF99 rgb(102, 255, 153)	#00FF99 rgb(0, 255, 153)	#00CC99 rgb(0, 204, 153)	#009999 rgb(0, 153, 153)	#006699 rgb(0, 102, 153)	#003399 rgb(0, 51, 153)	#000099 rgb(0, 0, 153)
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#FFFFCC rgb(255, 255, 204)	#FFCCCC rgb(255, 204, 204)	#FF99CC rgb(255, 153, 204)	#FF66CC rgb(255, 102, 204)	#FF33CC rgb(255, 51, 204)	#FF00CC rgb(255, 0, 204)	#9900CC rgb(153, 0, 204)	#9933CC rgb(153, 51, 204)	#9966CC rgb(153, 102, 204)	#9999CC rgb(153, 153, 204)	#99CCCC rgb(153, 204, 204)	#99FFCC rgb(153, 255, 204)	#33FFCC rgb(51, 204, 204)	#3399CC rgb(51, 153, 204)	#3366CC rgb(51, 102, 204)	#3333CC rgb(51, 51, 204)	#3300CC rgb(51, 0, 204)	
#FFFF99 rgb(255, 255, 153)	#FFCC99 rgb(255, 204, 153)	#FF9999 rgb(255, 153, 153)	#FF6699 rgb(255, 102, 153)	#FF3399 rgb(255, 51, 153)	#FF0099 rgb(255, 0, 153)	#990099 rgb(153, 0, 153)	#993399 rgb(153, 51, 153)	#996699 rgb(153, 102, 153)	#999999 rgb(153, 153, 153)	#99CC99 rgb(153, 204, 153)	#99FF99 rgb(153, 255, 153)	#33FF99 rgb(51, 255, 153)	#33CC99 rgb(51, 204, 153)	#339999 rgb(51, 153, 153)	#336699 rgb(51, 102, 153)	#333399 rgb(51, 51, 153)	#330099 rgb(51, 0, 153)
#FFFF66 rgb(255, 255, 102)	#FFCC66 rgb(255, 204, 102)	#FF9966 rgb(255, 153, 102)	#FF6666 rgb(255, 102, 102)	#FF3366 rgb(255, 51, 102)	#FF0066 rgb(255, 0, 102)	#990066 rgb(153, 0, 102)	#993366 rgb(153, 51, 102)	#996666 rgb(153, 102, 102)	#999966 rgb(153, 153, 102)	#99CC66 rgb(153, 204, 102)	#99FF66 rgb(153, 255, 102)	#33FF66 rgb(51, 255, 102)	#33CC66 rgb(51, 204, 102)	#339966 rgb(51, 153, 102)	#336666 rgb(51, 102, 102)	#333366 rgb(51, 51, 102)	#330066 rgb(51, 0, 102)
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#FFFF00 rgb(255, 255, 0)	#FFCC00 rgb(255, 204, 0)	#FF9900 rgb(255, 153, 0)	#FF6600 rgb(255, 102, 0)	#FF3300 rgb(255, 51, 0)	#FF0000 rgb(255, 0, 0)	#990000 rgb(153, 0, 0)	#993300 rgb(153, 51, 0)	#996600 rgb(153, 102, 0)	#999900 rgb(153, 153, 0)	#99CC00 rgb(153, 204, 0)	#99FF00 rgb(153, 255, 0)	#33FF00 rgb(51, 255, 0)	#33CC00 rgb(51, 204, 0)	#339900 rgb(51, 153, 0)	#336600 rgb(51, 102, 0)	#333300 rgb(51, 51, 0)	#330000 rgb(51, 0, 0)

**#663399**

**#663398**

**#663399**

**rgb(102,51,153)**

**rgba(102,51,153,1)**

hsl(270,50%,40%)

hsia(270,50%,40%,1)

hw|b()

**hwb()** **lab()**

**hwb()** **lab()** **lch()**

color()

**WorldWideWeb**

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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.

sans-serif

sans-serif

sans-serif

serif

serif





New Project.psd \*

Inf Pro Bru Cha Par CSS

Type Tool Type Tool Move Move Type Tool Layers Channels Paths

Normal Opacity: 100% Lock: Fill: 100%

Background

ceci n'est pas du texte

This image shows a screenshot of a digital image editor interface. The main workspace is a large square with a light gray checkerboard pattern, indicating transparency. In the center of this workspace, the text "ceci n'est pas du texte" is displayed in a bold, black, sans-serif font. On the left side, there is a vertical toolbar containing various editing tools: selection, transformation, text, shape, and selection with mask. At the top, a horizontal toolbar includes options for auto-select, transform controls, distances, zoom (1x), and file formats (PNG, SVG). On the right, a panel displays a history of operations: "Type Tool" (repeated four times), "Move" (repeated three times), and "CSS". Below this is a "Layers" panel showing two layers: "ceci n'est pas du texte" (selected) and "Background". The "ceci n'est pas du texte" layer has its opacity set to 100% and is unlocked. The "Background" layer is also listed. The overall interface is dark-themed.

```
text-indent: -1000px;  
background: url(bg.gif);
```

**sIFR**

cufón



*“It is not done well but  
you are surprised to  
find it done at all.”*



EOT



**WOFF**

# WOFF2





light  
regular *italic*  
**bold**  
**extra bold**



TheTimesCenter

a a a a a  
a a a a a  
a a a a a  
a a a a a



variable fonts

100 Thin  
200 Extra Light  
300 Light  
400 Normal  
500 Medium  
600 Semi Bold  
700 Bold  
**800 Extra Bold**  
**900 Ultra Bold**

*“One of the reasons we chose to use  
three-digit numbers was to support  
intermediate values in the future.”*

—Håkon Wium Lee

*“And the future is now :)”*

–Håkon Wium Lee

```
font-family: your-choice;  
font-weight: 467;
```

**WorldWideWeb**

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Edit	▷
Links	▷
Style	▷
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<icon>

<embed>

```
<a href="...">  
rel="embed">
```

<img>

```

```

```
  
...  
</img>
```

```

```

JPG

GIF

# PNG

# Flash

**SVG**

**2001**

**2011**

# WebP

# AVIF

```
>
```

```

```

```
<audio  
src="...">
```

...

```
</audio>
```

```
<video  
src="...">
```

...

```
</video>
```

<audio>

<video>

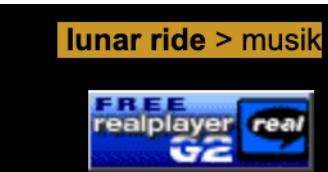
## Music

### Samples

Here are the seven songs recorded on the BEAM demo tape, in Realaudio format.

If you don't have a Realaudio player, you can [download](#) it for free.

- [Wooden Beams](#)
- [Wide](#)
- [Knots](#)
- [We Are David](#)
- [Tonight](#)
- [Endless](#)
- [Homele](#)



### Session September 2000

Alle Songs von: Lunar Ride (Musik), Dirk Vollmer (Texte) außer "New year's day" von U2 ©1983 Blue Mountain Music Ltd.

1. Psycho
2. Friend
3. Marian
4. **Don't tap on me**
5. **Started anew today**
6. Speak to me
7. **New year's day**

### uneven.

"uneven." enthält fünf Demos, aufgenommen in zwei Tagen im Dezember 1998.

Aufgenommen von Claudio Frey und Wolfgang Baer, abgemischt von Claudio frey im Take One Studio, Freiburg.

Alle Songs von: Lunar Ride (Musik), Dirk Vollmer (Texte), veröffentlicht 1999.

1. **Gone To Heaven** geschrieben 1994.
2. **Another Day** geschrieben 1998.
3. **Allein** geschrieben 1996.
4. **The King Can Do No Wrong** geschrieben 1998.
5. **Moon No. 18** geschrieben 1996.

Vielen Dank An: Adrian, **Hansi, Jeremy & Jessica**, Michael, Stefan und die ganze Take One Crew.

### The Music

#### Berlin in the 20's - The dance halls

The 20's and 30's were the heyday of Berlin's dance halls.

### The Albums



Frackwürdige Herren,  
1998



Eintänzer Gesucht, 1997

# Flash



animation

vector graphics

video

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**font**

**centre**

**width**

**height**

<table>





**CSS**

**float: left**



**640px**

**640px**

**800px**

**640px**

**800px**

**960px**

\$599



%

**640px**

**800px**

**960px**

**%**

@media all and (...)

@media %

**responsive**

**responsive**

# flexbox

# grid

animation

video flexbox grid SVG  
web fonts

# OLD MAN YELLS AT BROWSERS



Citizen Advocate Groups  
and the Welfare Crisis

# HTML5



**WorldWideWeb**

Info	▷
Navigate	▷
Document	▷
Edit	▷
Links	▷
Style	▷
Print	p
Page Layout	
Windows	
Services	
Hide	h
Quit	q

**The World Wide Web project****World Wide Web**

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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.

*“The problem is that of programming language. You need something really powerful, but at the same time ubiquitous. Remember a facet of the web is universal readership. There is no universal interpreted programming language.”*

**–Tim Berners-Lee**

# HOW STANDARDS PROLIFERATE:

(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC)

SITUATION:  
THERE ARE  
14 COMPETING  
STANDARDS.

14?! RIDICULOUS!  
WE NEED TO DEVELOP  
ONE UNIVERSAL STANDARD  
THAT COVERS EVERYONE'S  
USE CASES.



Soon:

SITUATION:  
THERE ARE  
15 COMPETING  
STANDARDS.

# LiveScript

# JavaScript

# DHTML

document.layers()

document.all()



# DOM

`document.getElementById()`

`document.getElementsByTagName()`

#id { ... }

element { ... }

```
$('id')
```

```
$('element')
```

`document.querySelector()`

`document.querySelectorAll()`



# Sass

**polyfills**



- High performance lightweight formula
- Fills holes up to 50mm in one application
- Will not shrink or sag
- Smooth, no sanding finish
- Quick drying

# APIs

# native apps

geolocation

input type="image"

web notifications

service workers



*“By the end of the year, I would predict that any major native mobile application could be instead built using native web capabilities/APIs.”*

**–Ire Aderinokun**

**hex**    **floats**    **system fonts**

**rgba**

**ajax**

**hex**

**hsla**

**media queries**

**svg  
flexbox  
floats  
grid**

**web fonts**

**system fonts**

**variable fonts**

**service workers**

**rgba**

**hex**

**hsla**

**notifications**

**media queries**

**ajax**

**floats**

**grid**

**web components**

**houdini**

**svg**

**flexbox**

**system fonts**

**variable fonts**

**device APIs**



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## 5 Pandemic Mistakes We Keep Repeating

We can learn from our failures.

ZEYNEP TUFEKCI

---

The Surprising Key to Combating Vaccine Refusal

DEREK THOMPSON

---

Murderers Should Be Called

DEREK THOMPSON

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Go inside the secret “reeducation centers” of Xinjiang in our immersive investigation.

A REPORTER AT LARGE

## LAST EXIT FROM AFGHANISTAN

Will peace talks with the Taliban and the prospect of an American withdrawal

BY E. ALEX JUNG

---

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HOT TOPICS: Golden Globes 2021 | Oscar Futures

PROFILE

## Youn Yuh-jung Comes to America

The actress’s heart-shattering performance in *Minari* is likely to get an Oscar nod. She’s been doing this too long to care.

BY E. ALEX JUNG

---

## Nomadland and Borat

BAE VITEX TURNS TO CRITIC

**Vox**

BIDEN ADMINISTRATION | CORONAVIRUS | MORE ▾

## TOP STORIES

---

**UNCANCELED**

Trump will never stop lying about the 2020 election. His CPAC speech proved it.

By Aaron Rupar

---

Congress is writing up Biden’s stimulus plan. Here’s what’s in it.

By Emily Stewart

---

The Republican revolt against democracy, explained in 13 charts

By Zack Beauchamp

---

Why Johnson & Johnson’s one-shot Covid-19 vaccine is a game changer

By German Lopez

---

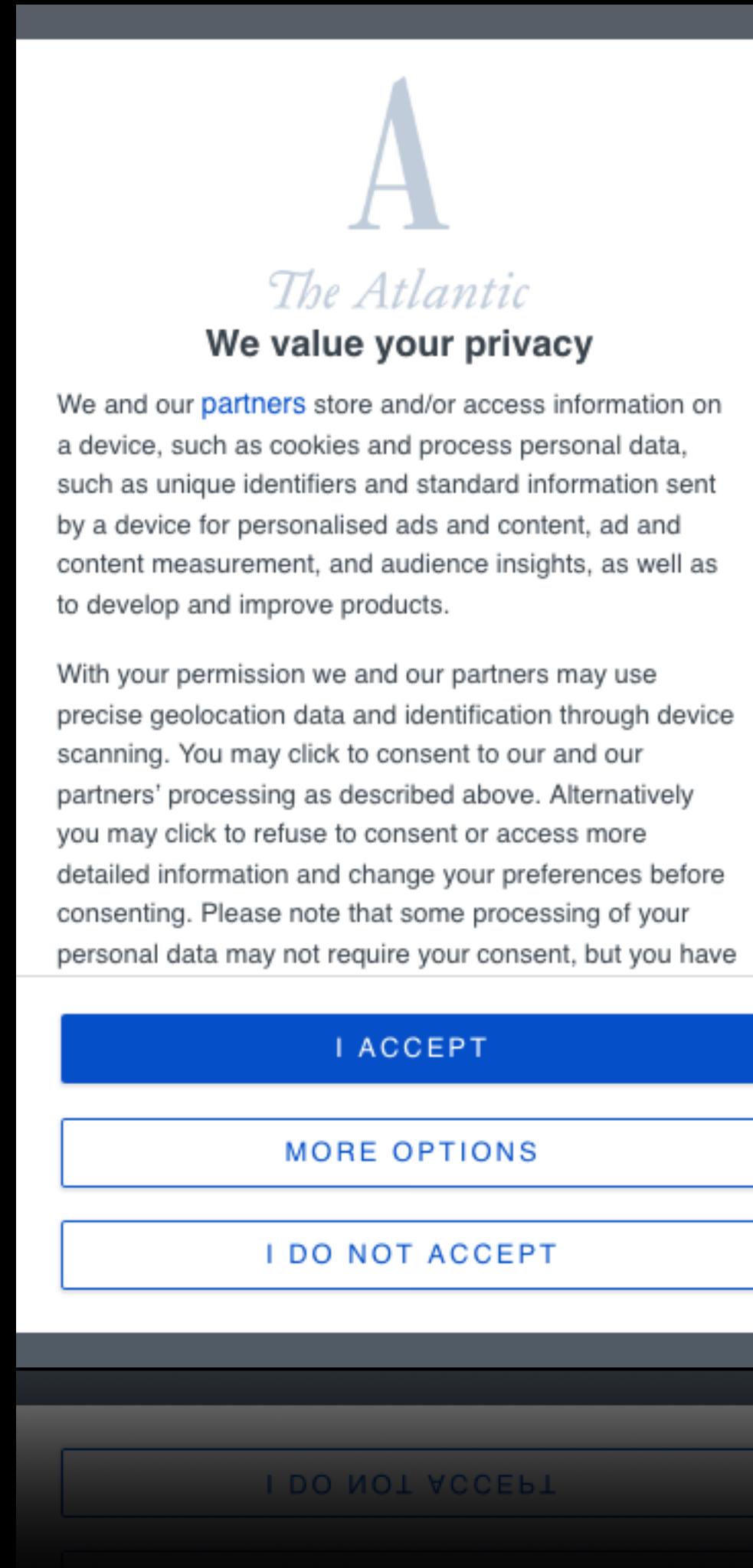
The 2021 Golden Globes proved we no longer need the Golden Globes

By Alissa Wilkinson and Emily VanDerWerff

---

The Woodstock festival is back

By Matt Taibbi



**A**

*The Atlantic*

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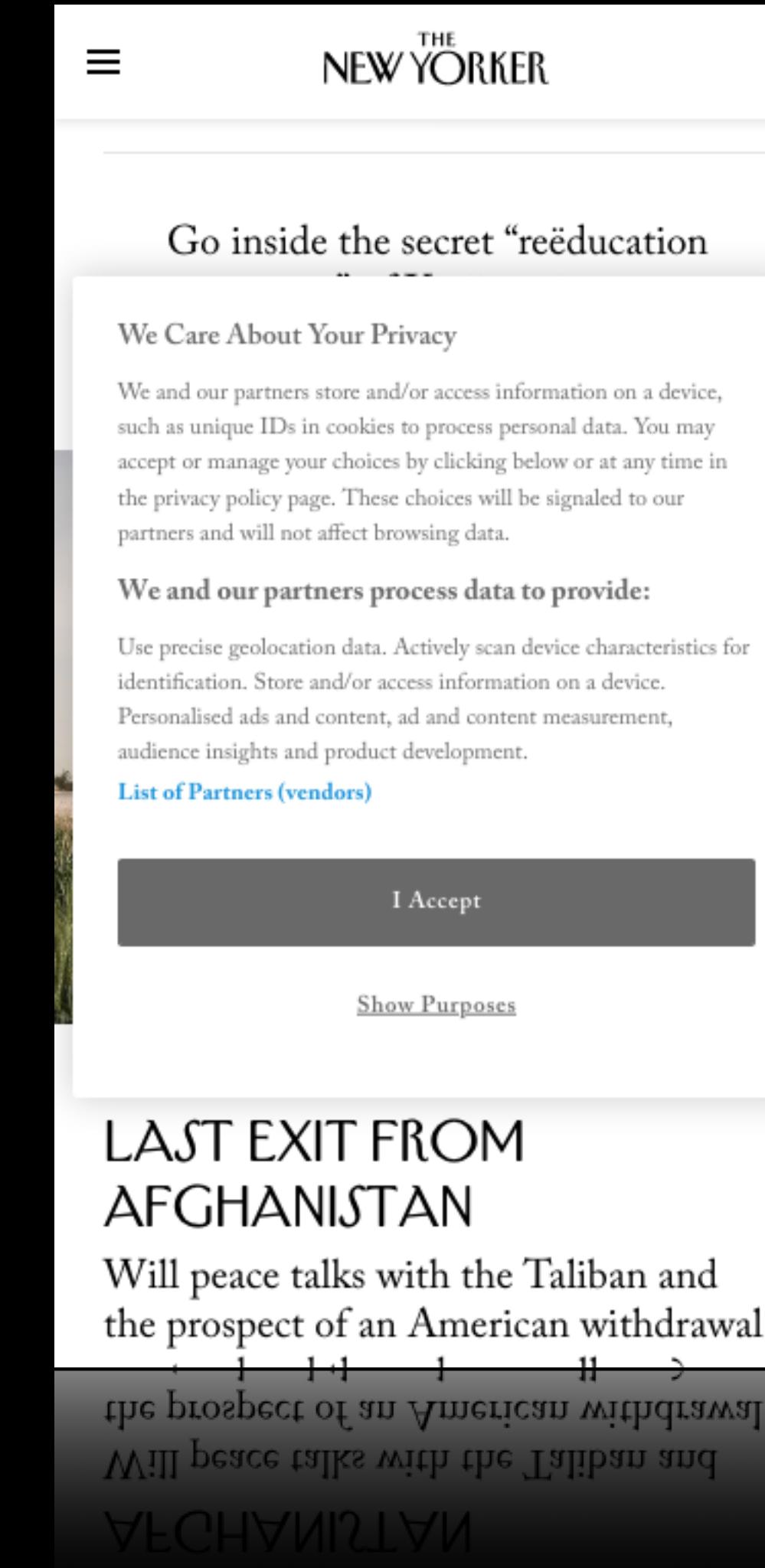
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**I ACCEPT**

**MORE OPTIONS**

**I DO NOT ACCEPT**

**DATA ACCESS**



THE NEW YORKER

Go inside the secret “reeducation”

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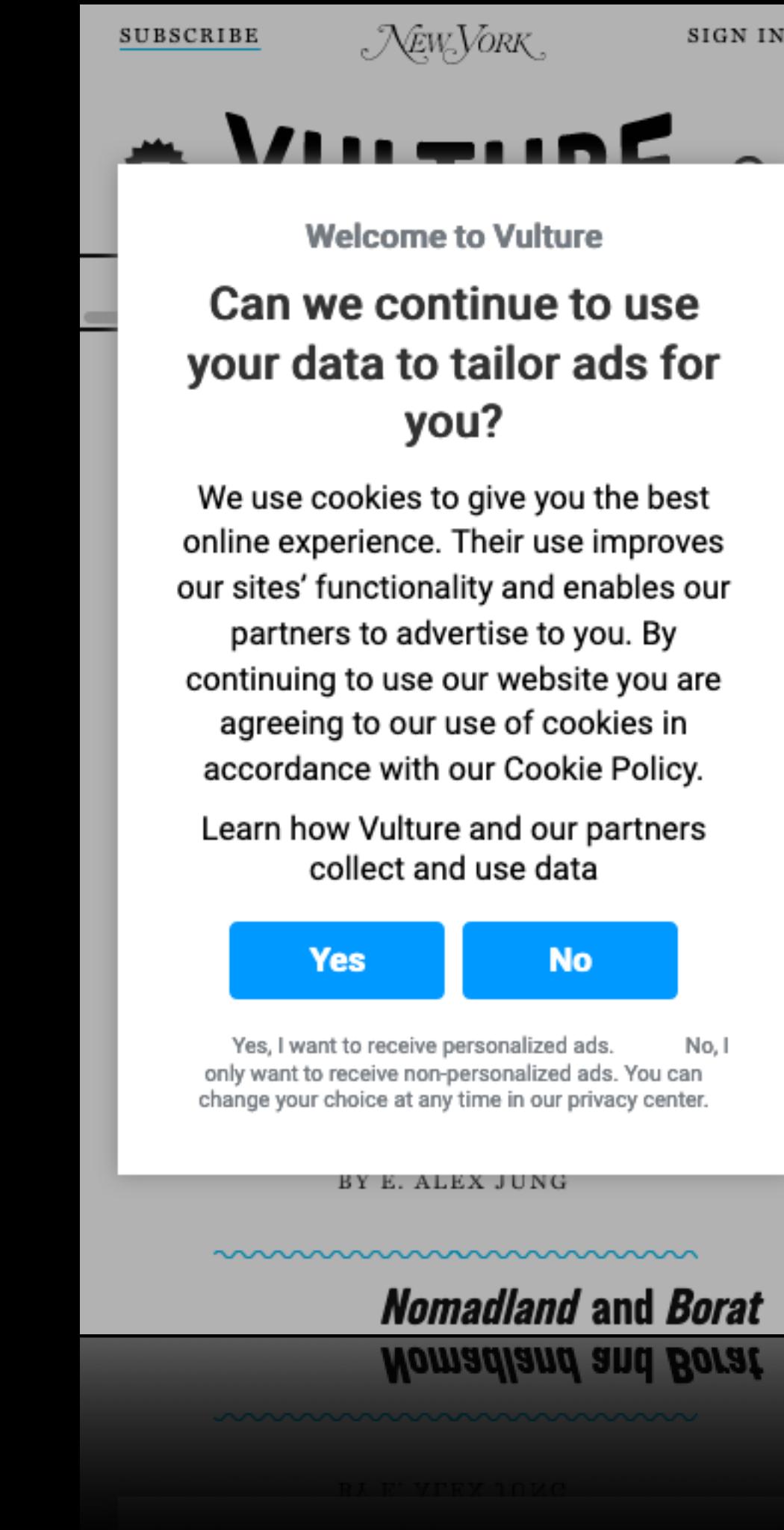
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**LAST EXIT FROM AFGHANISTAN**

Will peace talks with the Taliban and the prospect of an American withdrawal

NATURALLY



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VULTURE

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Learn how Vulture and our partners collect and use data

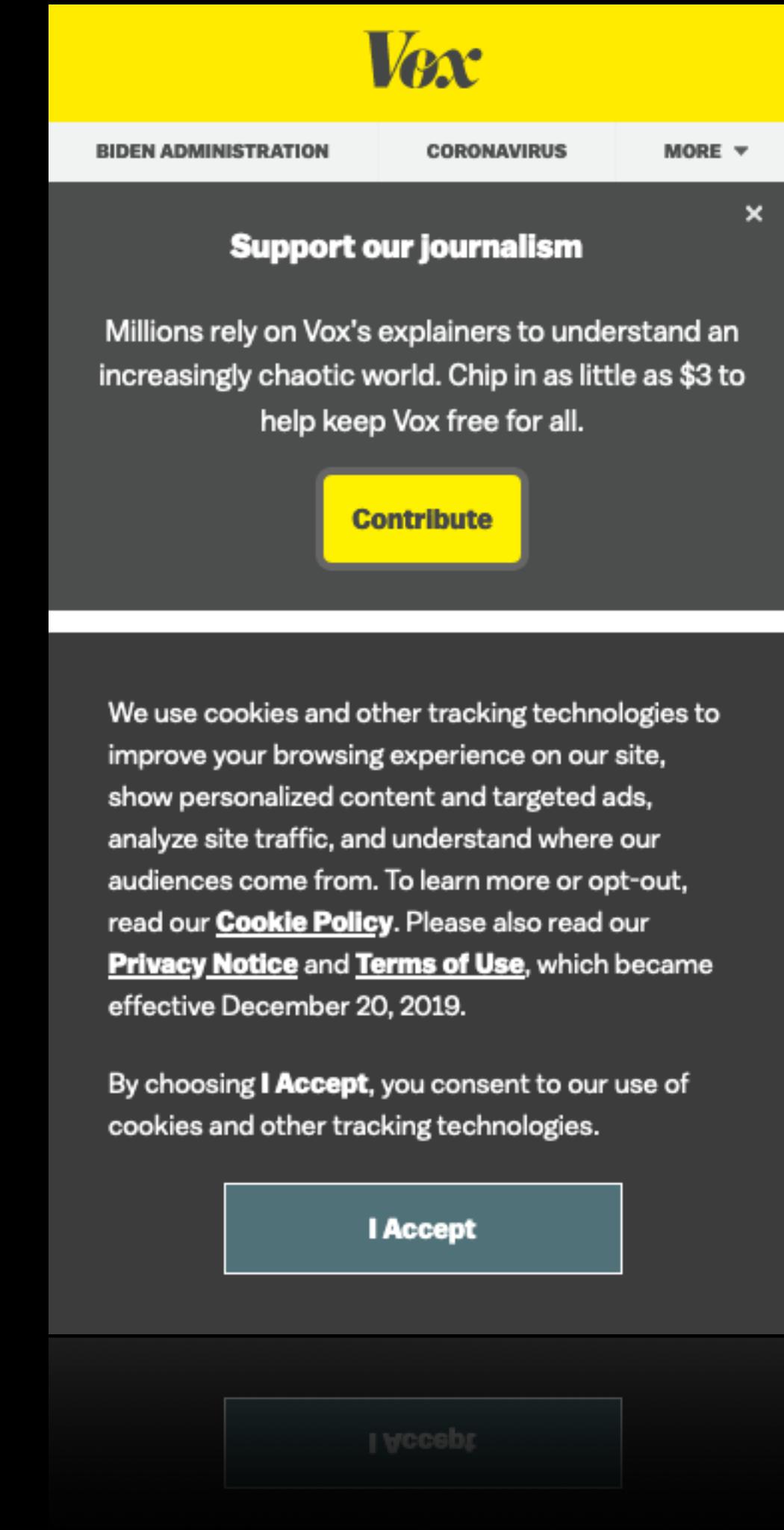
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BY E. ALEX JUNG

**Nomadland and Borat**

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behavioural  
advertising

**contextual  
advertising**

behavioural  
advertising

tracking

**WorldWideWeb**

Info	▷
Navigate	▷
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**stateless**

cookies JavaScript

third-party  
cookies JavaScript

**stateful**

tracking  
blockers

advertising  
blockers

# websites

**websites**

**web apps**

single page apps

**rendering  
routing  
responding**

complexity

<select>

<input type="date">

<button>

**software**

# dependencies

# expectations

# expectations

# expectations

intentions

**verschlimmbessern**



# user needs

*“Stop solving problems you don’t yet have.”*

—Rachel Andrew

**polyfills**

developer convenience

user needs

developer convenience

# expectations



Web@  
**30**

W3C | WORLD WIDE WEB FOUNDATION

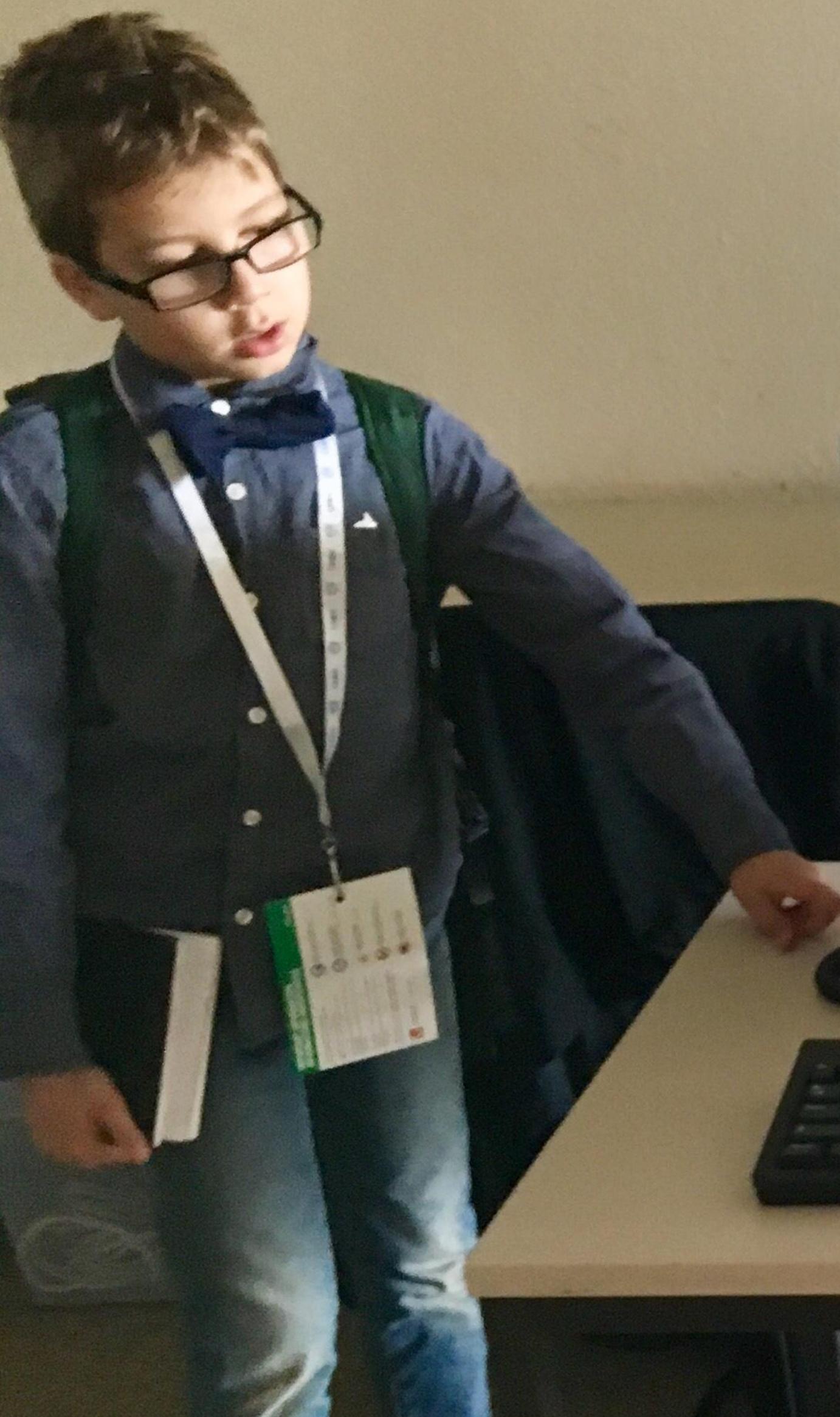
This media is a novelty.  
Do not power it down!

Web@  
30  
1989 - 2019



W3C

WORLD WIDE WEB  
FOUNDATION



1989 - 2019



# CERN

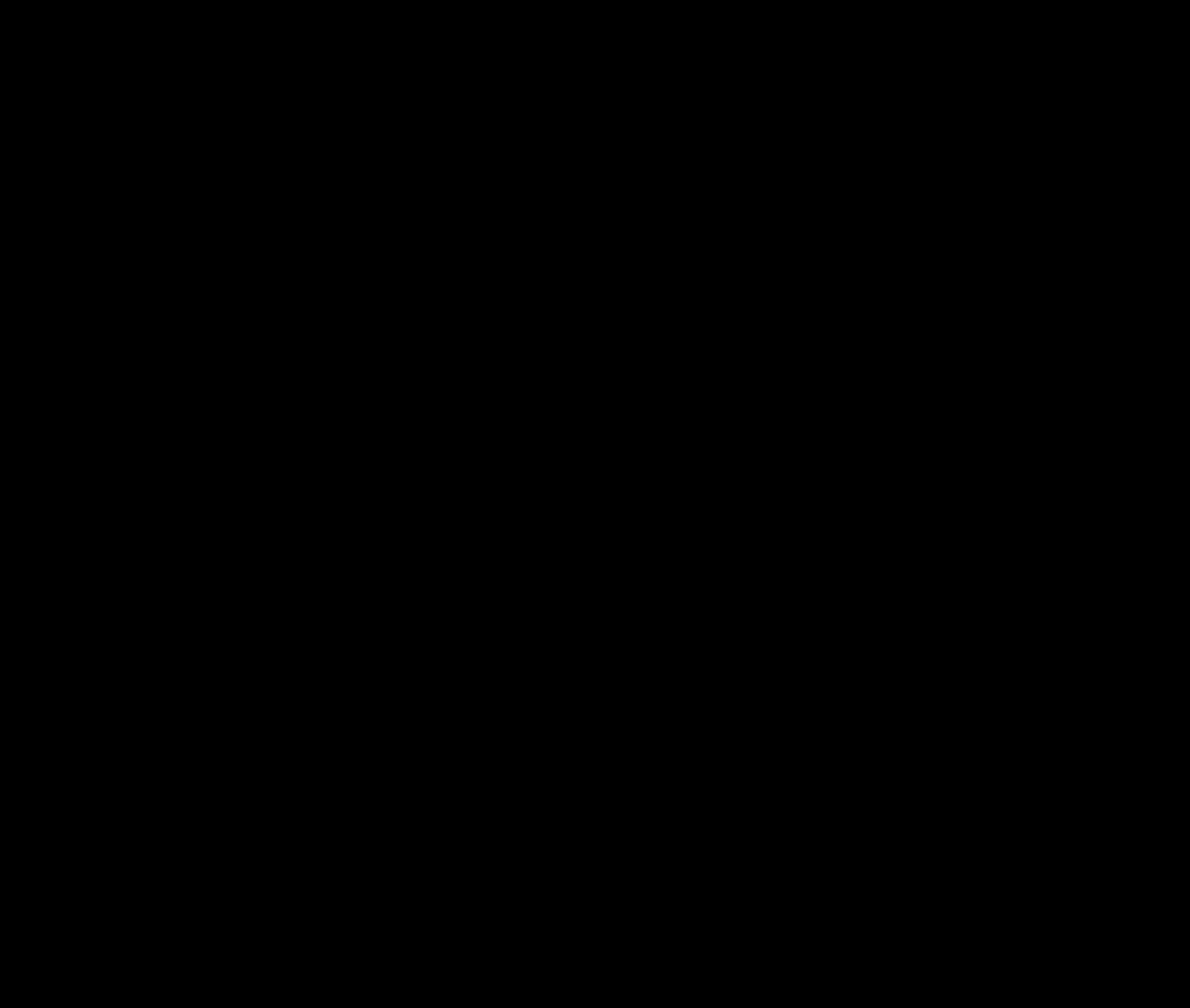


*“If you have something wonderful, if you do not defend it, you will lose it.”*

-Zeynep Tüfekçi

*you have something wonderful,  
defend it*

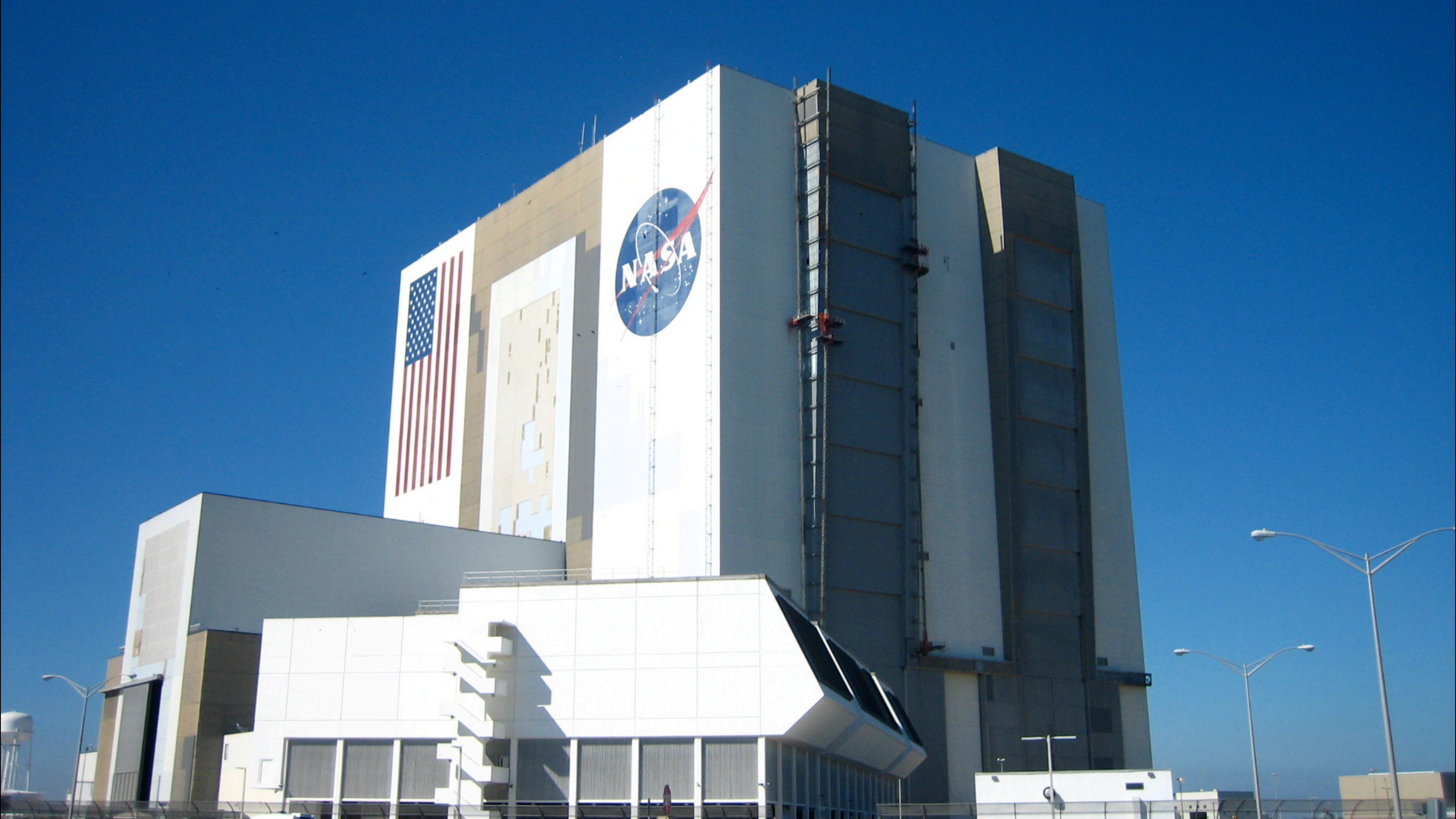






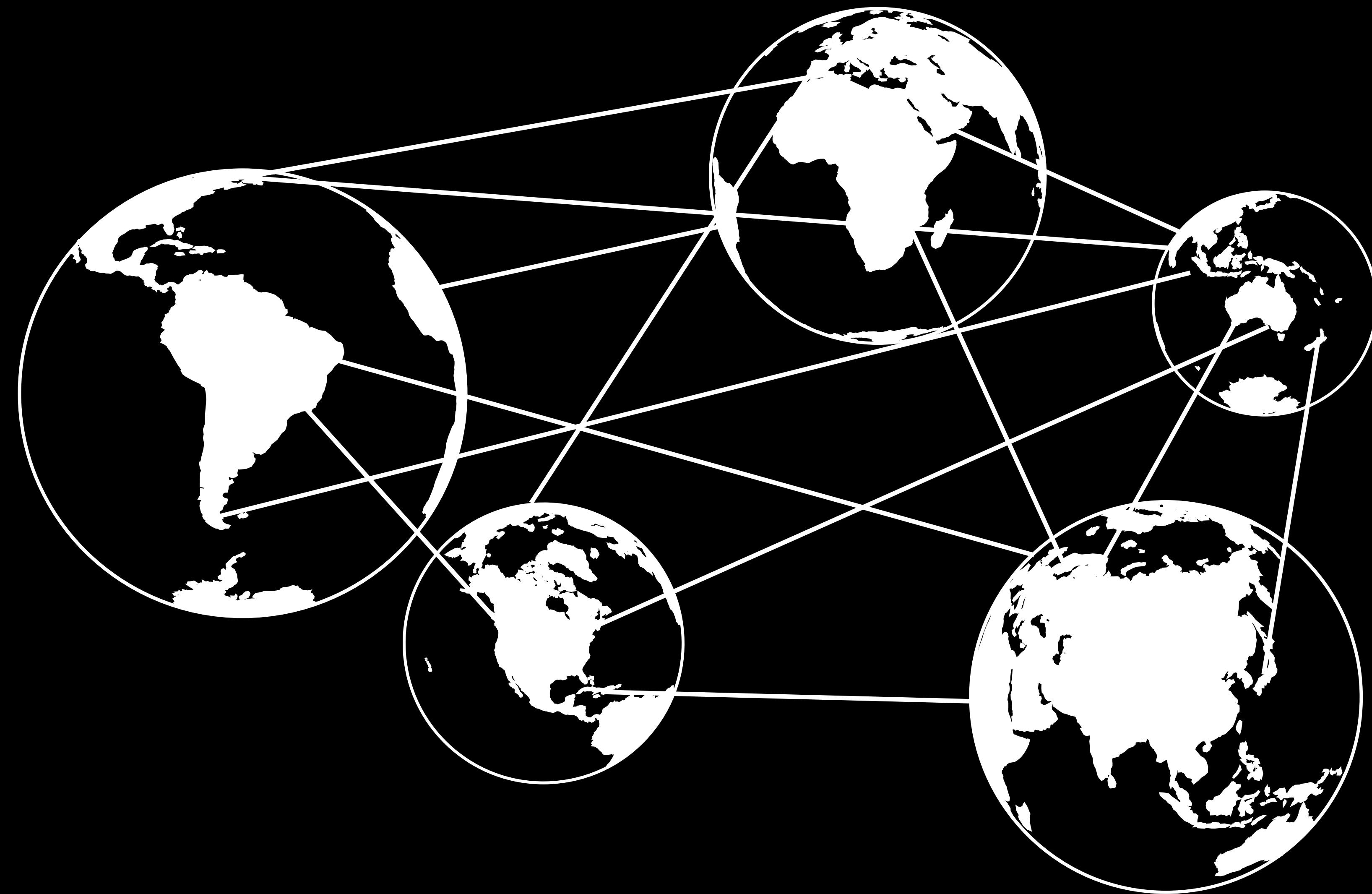


MTOA - S  
CRIA - C  
MTIA - X  
MT2A - X  
CRIA - B  
CPIA - B  
CPJA - P  
TYIA - T  
CRIA - S  
LPIA - L  
MT2A - G



*“I’m helping put a man on the moon.”*





thank you