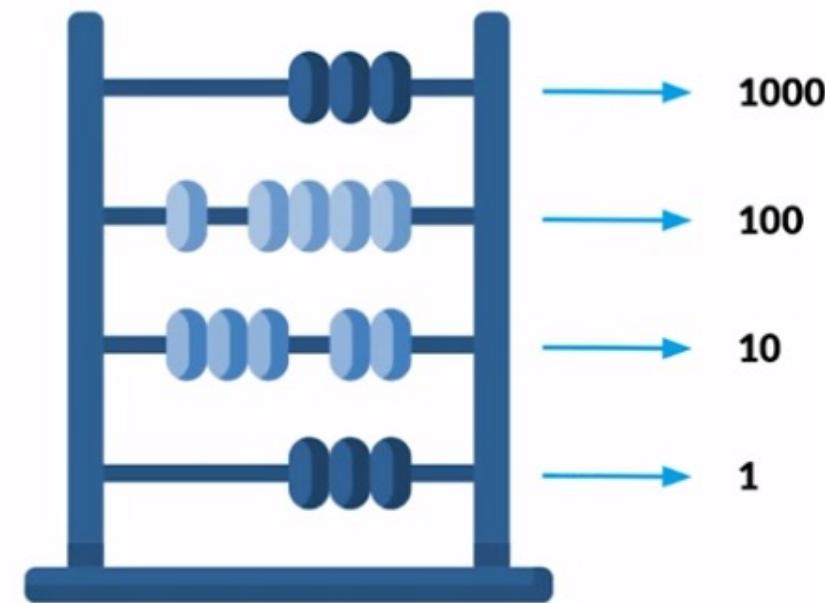
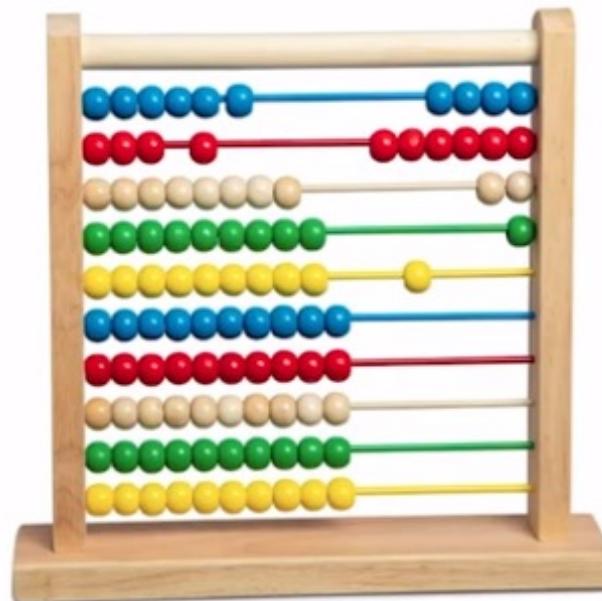
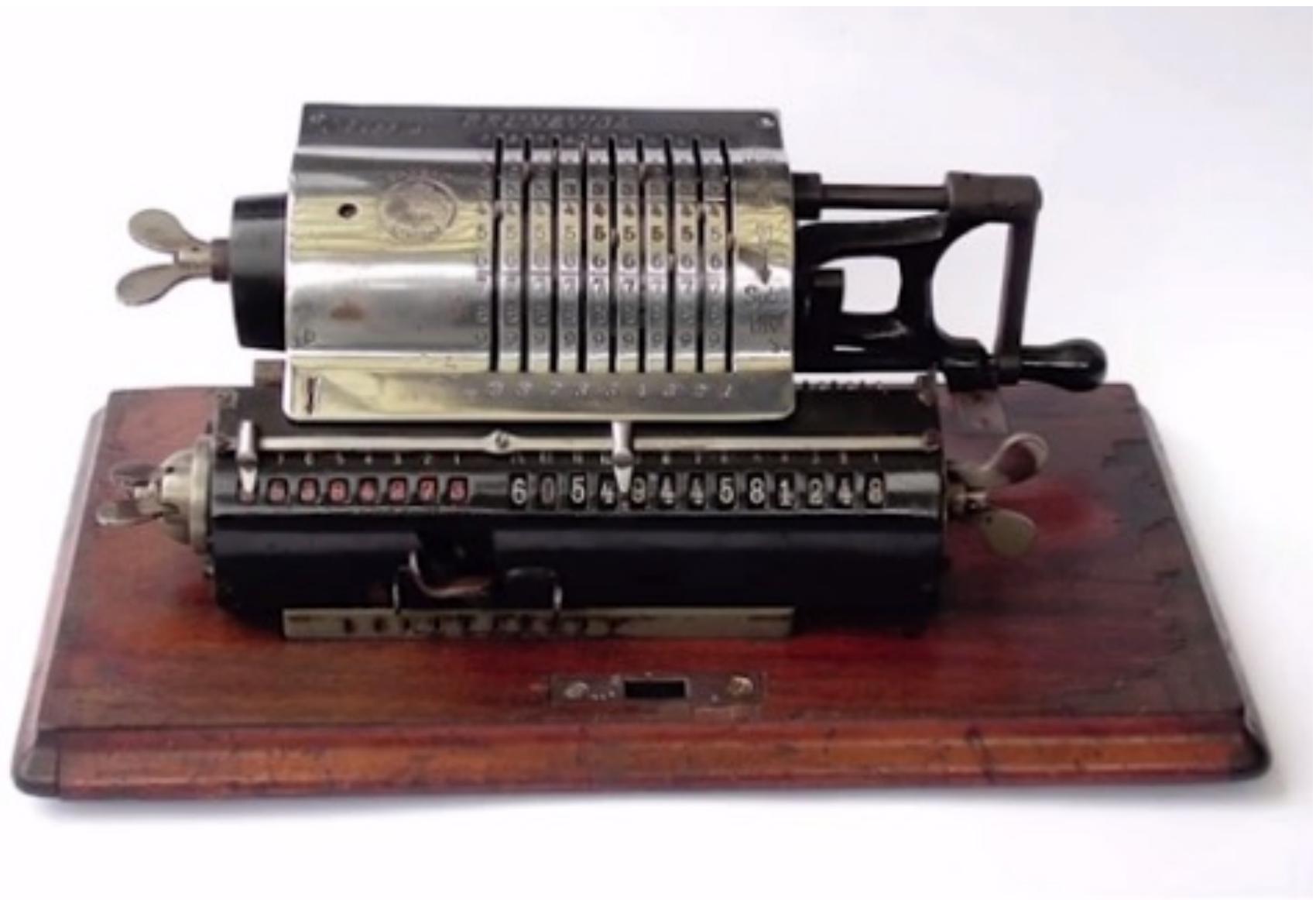


HISTORIA DE INTERNET

Ábaco

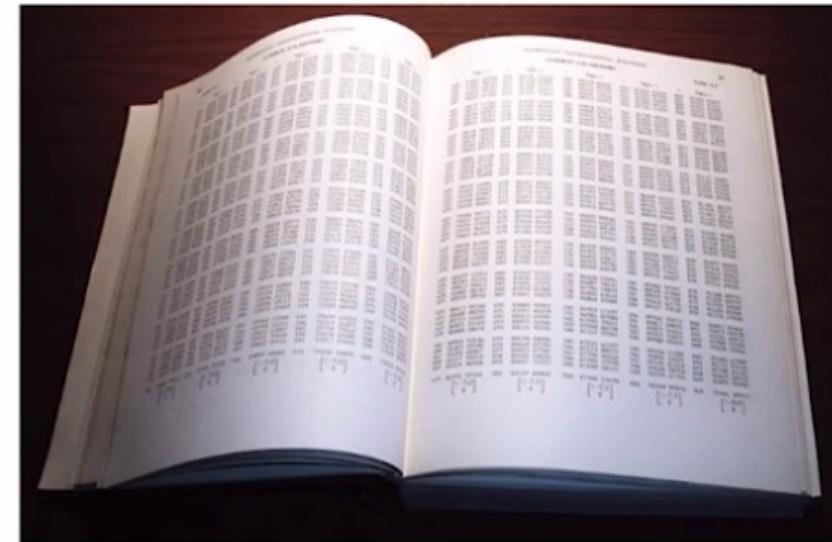


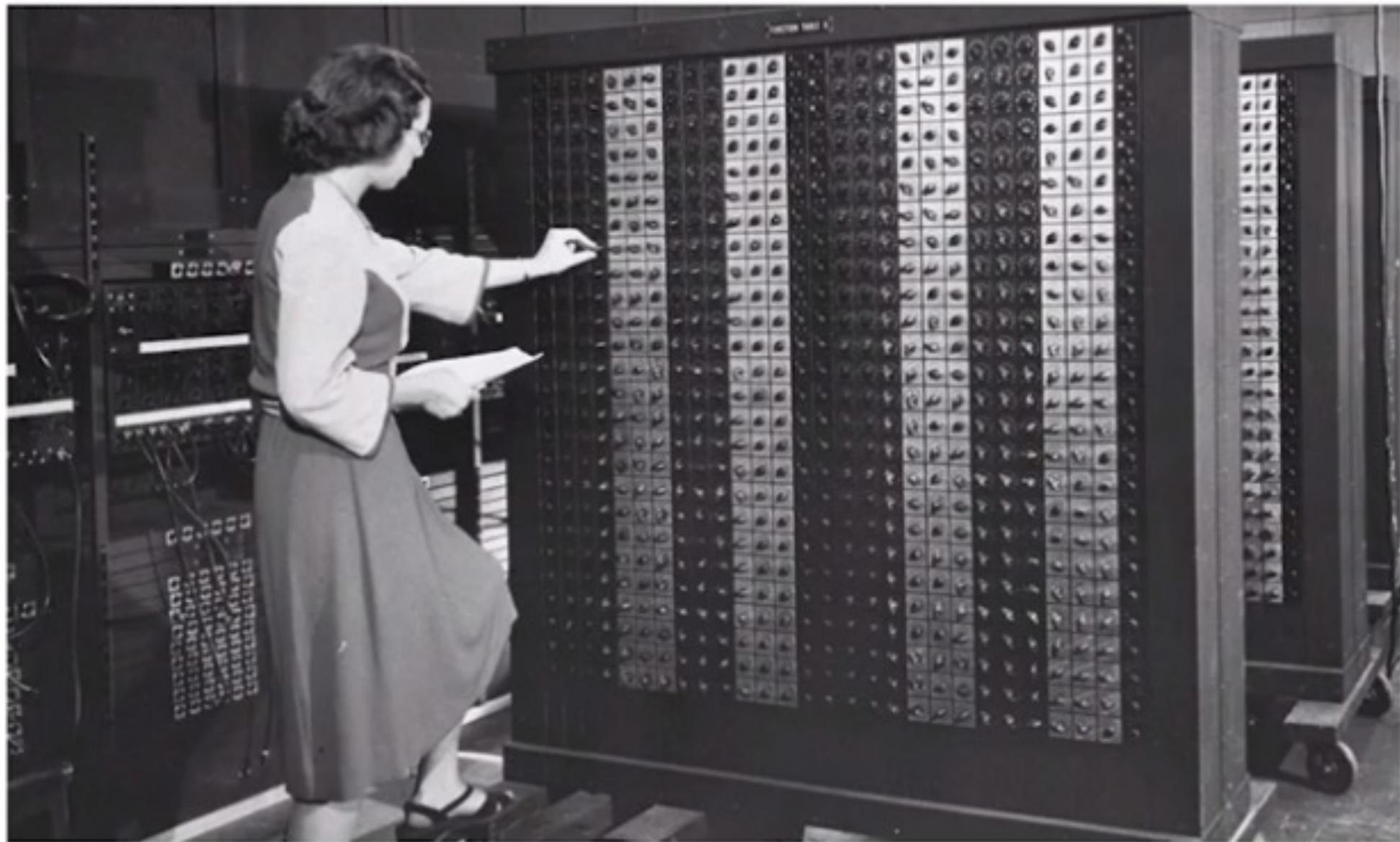


Computadoras humanas



Libros con cálculos (precomputation table)

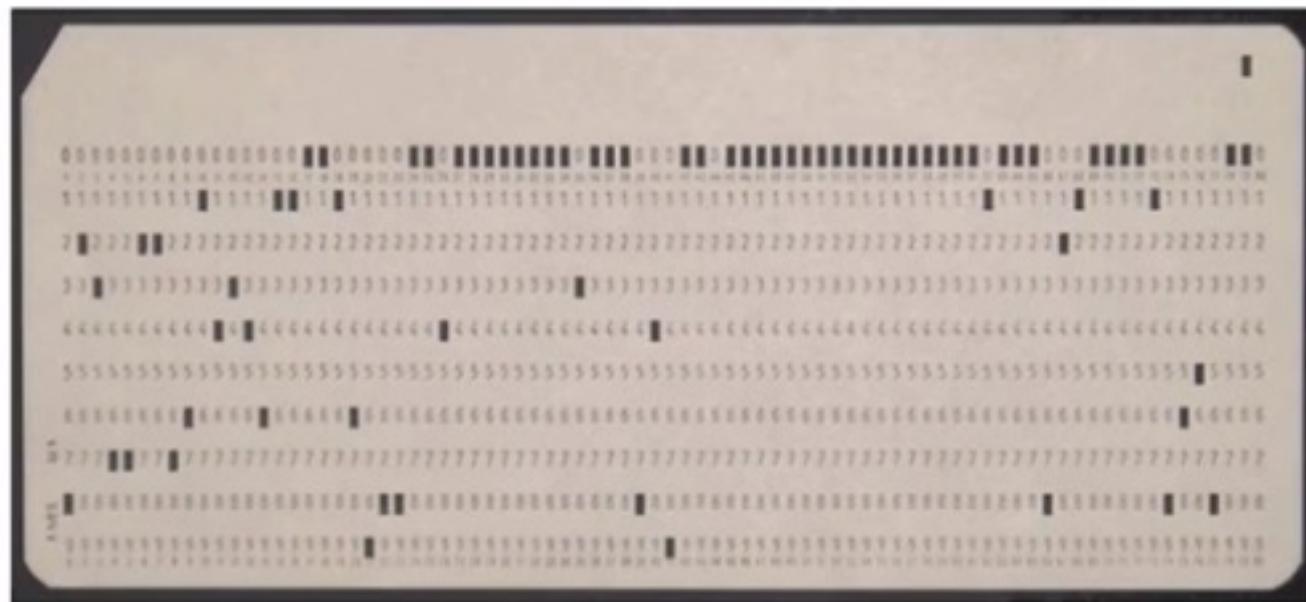






Cálculo balístico para la guerra

Tarjetas perforadas



Machine code

Machine Code

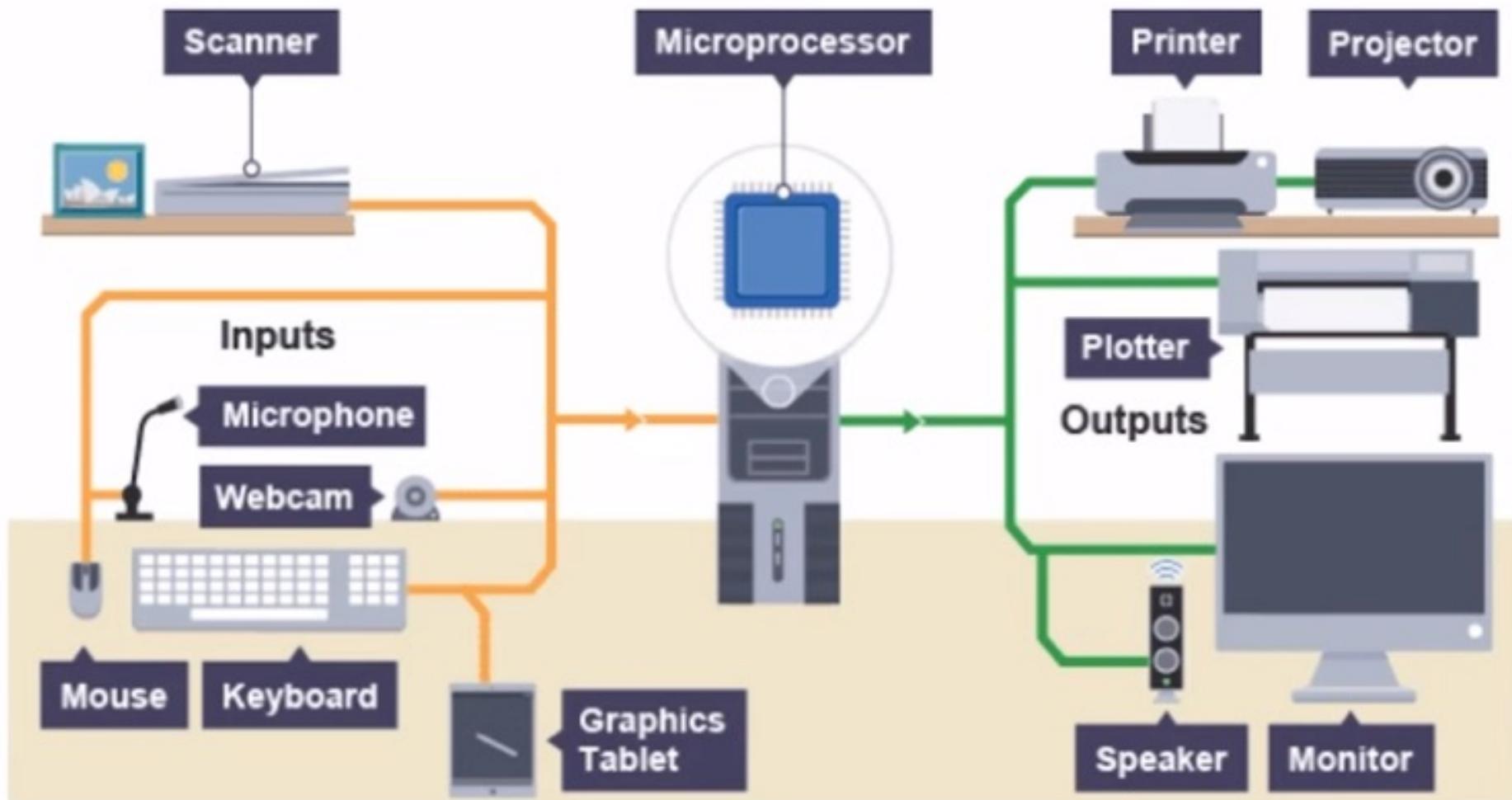
```
10011101000110100000  
01100011010001110110  
10000010111101101110  
11110110001011011000  
10000010011100011011  
10010011000111000000
```

Primeros lenguajes de programación

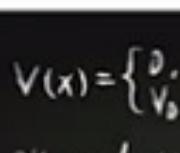


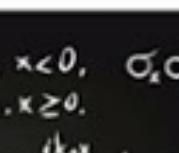
Inputs - Outputs



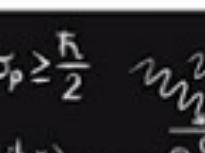


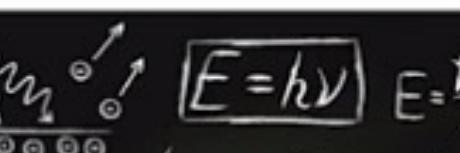
Muchos cálculos


 $V(x) = \begin{cases} 0, & x < 0, \\ V_0, & x \geq 0. \end{cases}$

 $E = h\nu$
 $E = \frac{\hbar^2}{2r}$

 $\Psi_t(x) = \frac{1}{\sqrt{k_1}} (A_{+} e^{ik_1 x} + A_{-} e^{-ik_1 x}) \quad x < 0$

 $\frac{d}{dt} A(t) = \frac{i}{\hbar} [H, A(t)] + \frac{\partial \Psi}{\partial t}$

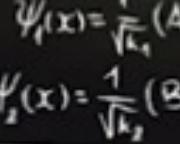
 $\Psi_t(x) = \frac{1}{\sqrt{k_2}} (B_{+} e^{ik_2 x} + B_{-} e^{-ik_2 x}) \quad x > 0$
 $T|j,m\rangle \equiv |T(j,m)\rangle = (-1)^{j-m} |j,m\rangle$

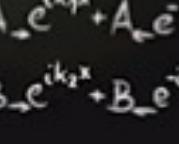
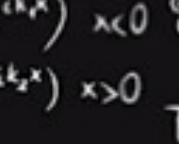
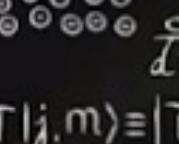
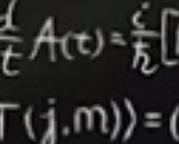
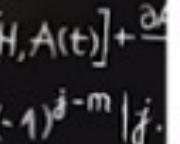
 $\frac{\partial}{\partial t} \Psi(r,t) = \hat{H} \Psi(r,t)$
 $|\Psi\rangle_{AB} = \sum_{i,j} c_{ij} |i\rangle A \otimes |j\rangle B$


 $\int_a^b \int_{-\infty}^{\infty} W(x,p) dp dx$
 $H_n(x) = (-1)^n e^{x^2} \frac{d^n}{dx^n} (e^{-x^2})$


 $\frac{\hbar^2}{m} \frac{d^2 \psi}{dx^2} = E \psi$
 $\Psi(x) = A e^{ikx} + B e^{-ikx}$
 $i\hbar \frac{d}{dt} |\Psi(t)\rangle = H |\Psi(t)\rangle$


 $U(t) = \exp\left(\frac{-itH}{\hbar}\right)$
 $A(x) = \exp\left(\frac{i}{\hbar} \int X(t) dt\right)$

 $P(a,b) = \int d\lambda \cdot \rho(\lambda) \cdot p_a(a,\lambda) \cdot p_b(b,\lambda)$


 $W \rightarrow \frac{1}{(\pi \hbar)^3} \exp\left[-\alpha^2 \left(x - \frac{at}{m}\right)^2\right]$






Binario

Es un sistema de conteo

0, 1, 2, 3, 4, 5, 6, 7, 8, 9

123,456,789

Centena de millón

Decena de millón

Unidad de millón

Centena de mil

Decena de mil

Unidad de mil

Centena

Decena

Unidad

3

20

1,230

0 y 1

Machine Code es un lenguaje binario. El sistema binario es básicamente un sistema de conteo.
La computadora solo entiende en ceros y unos.

128, 64, 32, 16, 8, 4, 2, 1

00000001 = 1

00000010 = 2

00000011 = 3

00010100 = 20

11111111 = 255

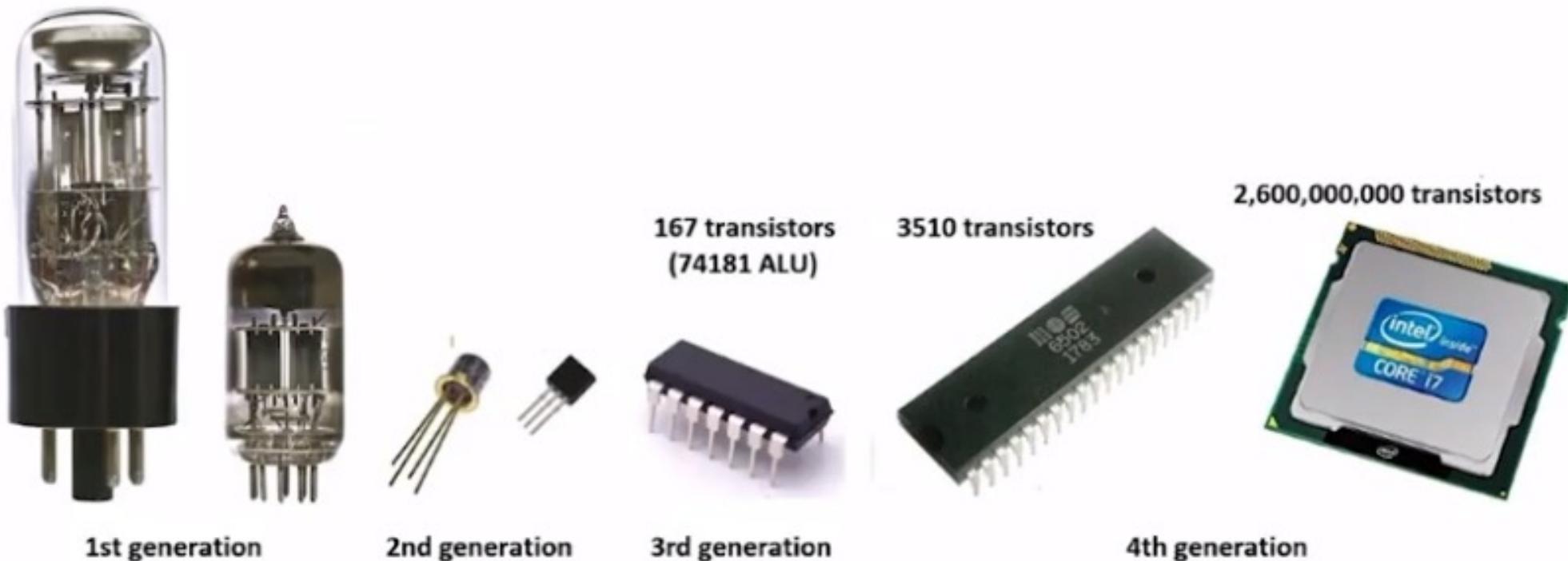
Bit y Bytes

Byte

128	64	32	16	8	4	2	1
0	1	0	1	0	0	0	0

Bit

Transistores



Transistores



ON	OFF
True	False
1	0

Pero entonces,
¿cómo con bytes puedo
representar letras, números,
caracteres especiales, etc.?

ASCII

A B C D E F G H I J K L M N O P Q R S T U

65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85

V W X Y Z

86 87 88 89 90

<https://www.ascii-code.com/>

El código ASCII

sigla en inglés de American Standard Code for Information Interchange
(Código Estadounidense Estándar para el Intercambio de Información)

www.elcodigoascii.com.ar

Caracteres de control ASCII

DEC	HEX	Símbolo ASCII
00	00h	NULL (carácter nulo)
01	01h	SOH (inicio encabezado)
02	02h	STX (inicio texto)
03	03h	ETX (fin de texto)
04	04h	EOT (fin transmisión)
05	05h	ENQ (enquiry)
06	06h	ACK (acknowledgement)
07	07h	BEL (timbre)
08	08h	BS (retroceso)
09	09h	HT (tab horizontal)
10	0Ah	LF (salto de linea)
11	0Bh	VT (tab vertical)
12	0Ch	FF (form feed)
13	0Dh	CR (retorno de carro)
14	0Eh	SO (shift Out)
15	0Fh	SI (shift In)
16	10h	DLE (data link escape)
17	11h	DC1 (device control 1)
18	12h	DC2 (device control 2)
19	13h	DC3 (device control 3)
20	14h	DC4 (device control 4)
21	15h	NAK (negative acknowle.)
22	16h	SYN (synchronous idle)
23	17h	ETB (end of trans. block)
24	18h	CAN (cancel)
25	19h	EM (end of medium)
26	1Ah	SUB (substitute)
27	1Bh	ESC (escape)
28	1Ch	FS (file separator)
29	1Dh	GS (group separator)
30	1Eh	RS (record separator)
31	1Fh	US (unit separator)
127	20h	DEL (delete)

Caracteres ASCII imprimibles

DEC	HEX	Símbolo	DEC	HEX	Símbolo	DEC	HEX	Símbolo
32	20h	espacio	64	40h	@	96	60h	'
33	21h	!	65	41h	A	97	61h	a
34	22h	"	66	42h	B	98	62h	b
35	23h	#	67	43h	C	99	63h	c
36	24h	\$	68	44h	D	100	64h	d
37	25h	%	69	45h	E	101	65h	e
38	26h	&	70	46h	F	102	66h	f
39	27h	,	71	47h	G	103	67h	g
40	28h	(	72	48h	H	104	68h	h
41	29h	)	73	49h	I	105	69h	i
42	2Ah	*	74	4Ah	J	106	6Ah	j
43	2Bh	+	75	4Bh	K	107	6Bh	k
44	2Ch	,	76	4Ch	L	108	6Ch	l
45	2Dh	-	77	4Dh	M	109	6Dh	m
46	2Eh	.	78	4Eh	N	110	6Eh	n
47	2Fh	/	79	4Fh	O	111	6Fh	o
48	30h	0	80	50h	P	112	70h	p
49	31h	1	81	51h	Q	113	71h	q
50	32h	2	82	52h	R	114	72h	r
51	33h	3	83	53h	S	115	73h	s
52	34h	4	84	54h	T	116	74h	t
53	35h	5	85	55h	U	117	75h	u
54	36h	6	86	56h	V	118	76h	v
55	37h	7	87	57h	W	119	77h	w
56	38h	8	88	58h	X	120	78h	x
57	39h	9	89	59h	Y	121	79h	y
58	3Ah	:	90	5Ah	Z	122	7Ah	z
59	3Bh	;	91	5Bh	[	123	7Bh	{
60	3Ch	<	92	5Ch	\	124	7Ch	|
61	3Dh	=	93	5Dh	]	125	7Dh	}
62	3Eh	>	94	5Eh	^	126	7Eh	~
63	3Fh	?	95	5Fh	-			elCodigoASCII.com.ar

ASCII extendido

DEC	HEX	Símbolo	DEC	HEX	Símbolo	DEC	HEX	Símbolo	DEC	HEX	Símbolo
128	80h	Ç	160	A0h	á	192	C0h	ł	224	E0h	ó
129	81h	Ü	161	A1h	í	193	C1h	ł	225	E1h	ó
130	82h	é	162	A2h	ó	194	C2h	ł	226	E2h	ó
131	83h	â	163	A3h	ú	195	C3h	ł	227	E3h	ó
132	84h	ä	164	A4h	ñ	196	C4h	ł	228	E4h	ó
133	85h	à	165	A5h	Ñ	197	C5h	ł	229	E5h	ó
134	86h	á	166	A6h	º	198	C6h	ł	230	E6h	ó
135	87h	ç	167	A7h	º	199	C7h	ł	231	E7h	ó
136	88h	è	168	A8h	¿	200	C8h	ł	232	E8h	ó
137	89h	ë	169	A9h	®	201	C9h	ł	233	E9h	ó
138	8Ah	è	170	AAh	½	202	CAh	ł	234	EAh	ó
139	8Bh	í	171	ABh	½	203	CBh	ł	235	EBh	ó
140	8Ch	î	172	ACh	¼	204	CCh	ł	236	ECh	ó
141	8Dh	ï	173	ADh	í	205	CDh	ł	237	EDh	ó
142	8Eh	Ä	174	AEh	«	206	CEh	ł	238	EEh	ó
143	8Fh	Ä	175	AFh	»	207	CFh	ł	239	EFh	ó
144	90h	É	176	B0h	…	208	D0h	ł	240	F0h	ó
145	91h	æ	177	B1h	…	209	D1h	ł	241	F1h	ó
146	92h	Æ	178	B2h	…	210	D2h	ł	242	F2h	ó
147	93h	ô	179	B3h	…	211	D3h	ł	243	F3h	ó
148	94h	ò	180	B4h	—	212	D4h	ł	244	F4h	ó
149	95h	ò	181	B5h	À	213	D5h	ł	245	F5h	ó
150	96h	û	182	B6h	Â	214	D6h	ł	246	F6h	ó
151	97h	ù	183	B7h	À	215	D7h	ł	247	F7h	ó
152	98h	ÿ	184	B8h	©	216	D8h	ł	248	F8h	ó
153	99h	Ö	185	B9h	—	217	D9h	ł	249	F9h	ó
154	9Ah	Ü	186	BAh	—	218	DAh	ł	250	FAh	ó
155	9Bh	ø	187	BBh	—	219	DBh	ł	251	FBh	ó
156	9Ch	£	188	BCh	—	220	DCh	ł	252	FCh	ó
157	9Dh	Ø	189	BDh	¢	221	DDh	ł	253	FDh	ó
158	9Eh	×	190	BEh	¥	222	DEh	ł	254	FEh	ó
159	9Fh	f	191	Bfh	—	223	DFh	ł	255	FFh	ó

161 72 111 108 97 33

¡Hola!

161 72 111 108 97 33

10100001
01001000
01101111
01101100
01100001
00100001

;Hola!



161 72 111 108 97 33



10100001
01001000
01101111
01101100
01100001
00100001

UNICODE

El término Unicode proviene de los tres objetivos perseguidos:
Universalidad, Uniformidad y Unicidad.

<https://home.unicode.org/>

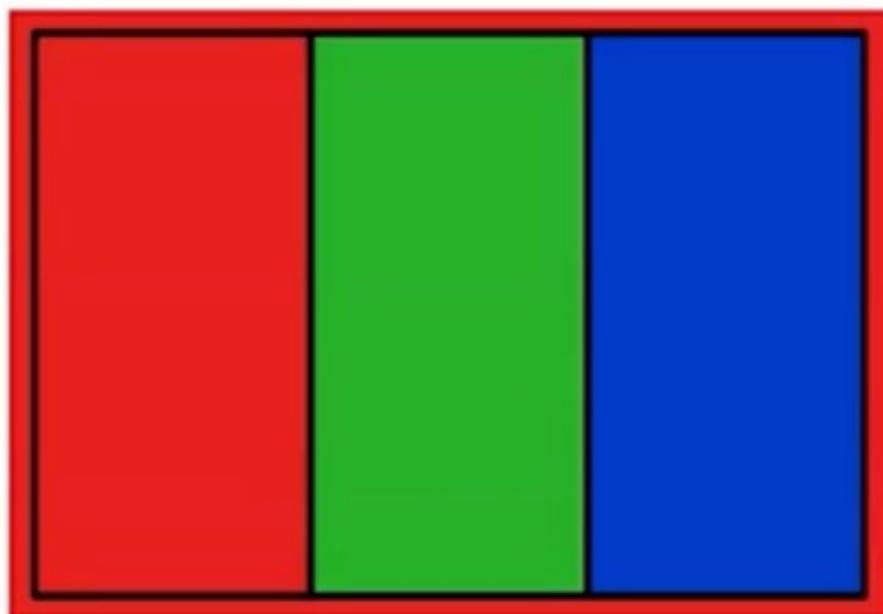
!	"	#	\$	%	&	'	()	*	+	,	-	.	/	
0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
~	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
p	q	r	s	t	u	v	w	x	y	z	{	|	}	~	^_
XXX	XXX	SPH	NSB	IND	NEL	SSA	SSA	HTS	HTS	VTS	PLD	PLD	RI	SSZ	SSZ
DOS	PUT	PUS	STS	COH	NW	SPA	SPA	SOS	XXX	SCI	CSI	ST	OSC	PW	APC
¤	i	¢	£	¤	¥	l	§	“	©	®	«	»	®	–	—
°	±	²	³	‘	μ	¶	·	,	¹	²	»	¼	½	¾	‰
À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ
Ā	ā	Ā	ā	Ā	ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā	Ā
Ð	d	Ē	ē	Ē	ē	Ē	ē	Ē	ē	Ē	ē	Ĝ	ĝ	Ĝ	ĝ
Ĝ	g	Ĝ	ĝ	Ĝ	ĥ	Ĝ	ĥ	Ĝ	ī	Ĝ	ī	Ĝ	ī	Ĝ	ī
Í	i	Ĳ	ij	Ĳ	j	Ķ	ķ	Ķ	Ļ	ī	Ļ	ļ	Ļ	ī	Ļ
Ŀ	Ŀ	ŀ	Ń	ń	Ń	ɳ	Ń	ń	ń	Ń	ń	ō	ō	ō	ō

Cómo funcionan los colores

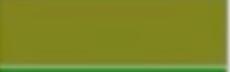
JS



RGB



3 Subpixels

	Black	(0,0,0)
	White	(255,255,255)
	Red	(255,0,0)
	Lime	(0,255,0)
	Blue	(0,0,255)
	Yellow	(255,255,0)
	Cyan / Aqua	(0,255,255)
	Magenta / Fuchsia	(255,0,255)
	Silver	(192,192,192)
	Gray	(128,128,128)
	Maroon	(128,0,0)
	Olive	(128,128,0)
	Green	(0,128,0)
	Purple	(128,0,128)
	Teal	(0,128,128)
	Navy	(0,0,128)

Plum Purple





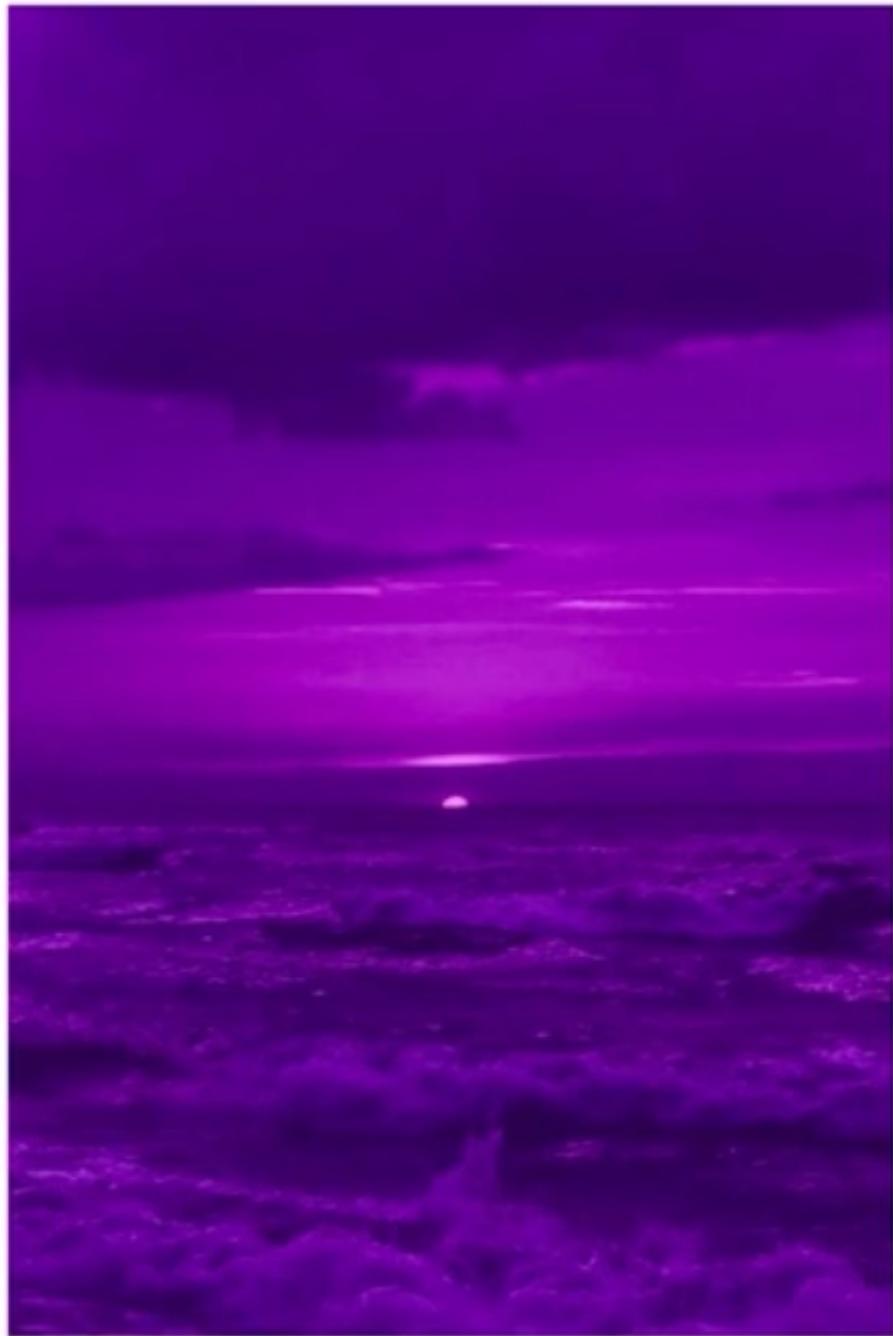
R: 178

G: 80

B: 228



R: 178 = 10110010
G: 80 = 01010000
B: 228 = 11100100



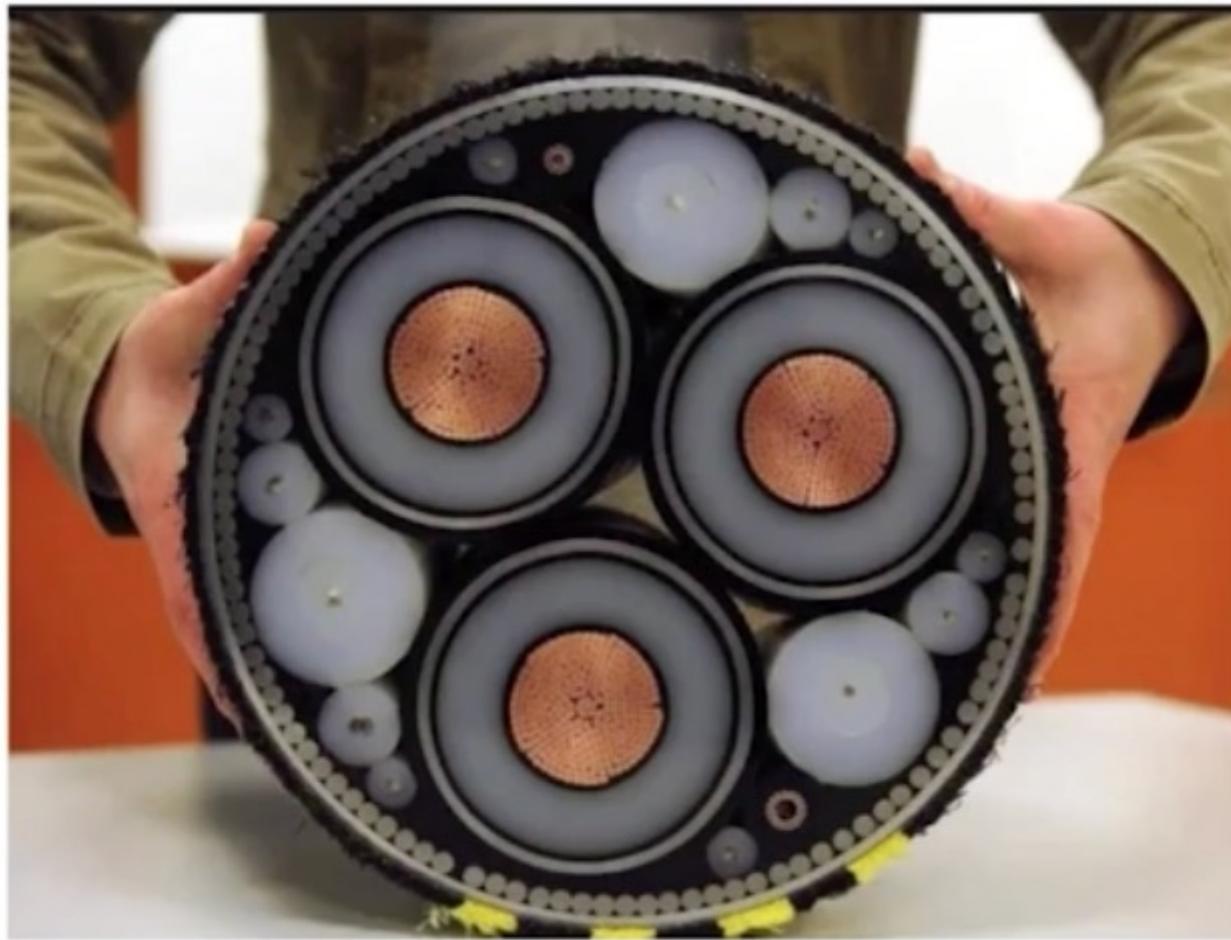
Protocolos

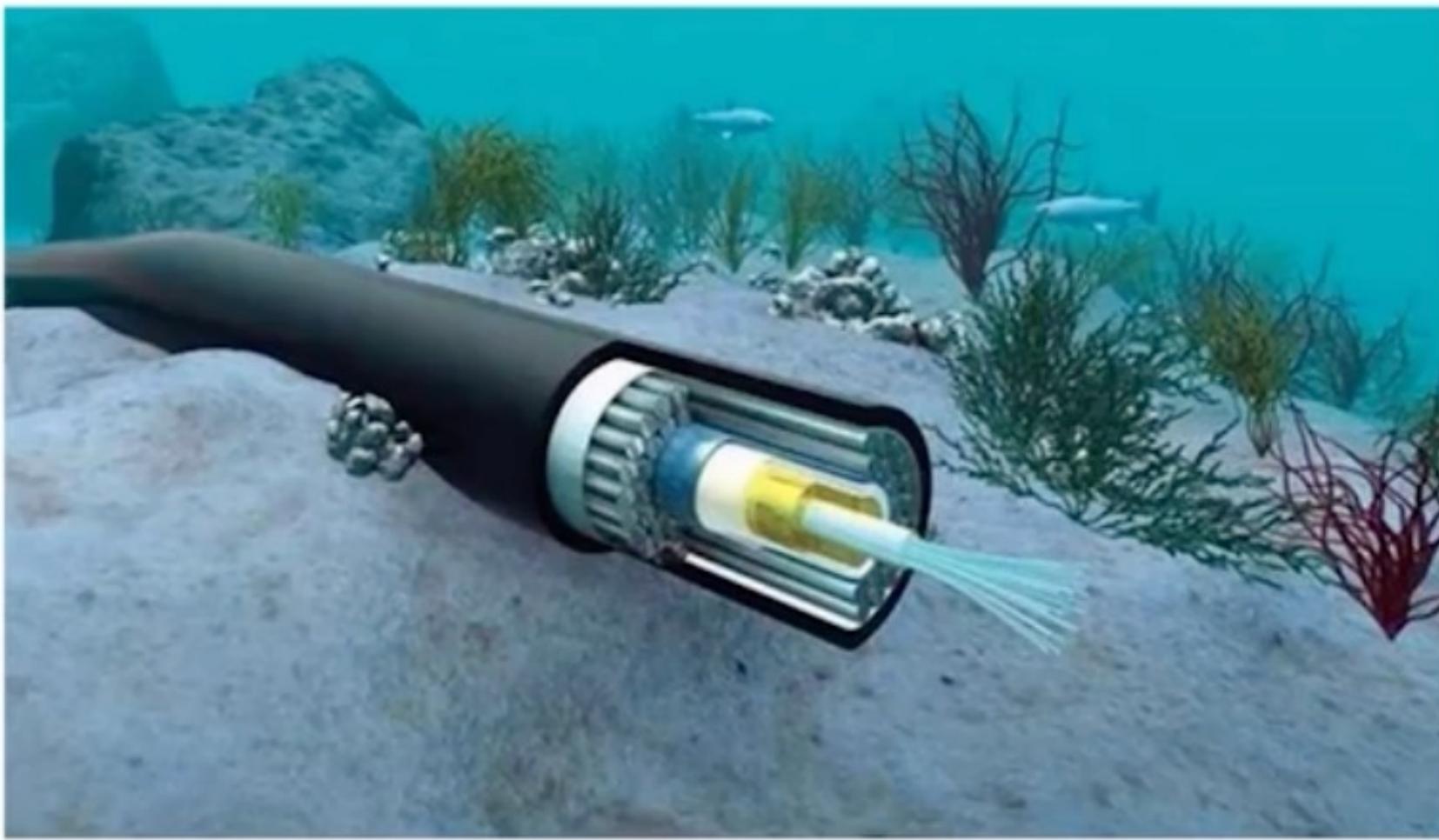
TCP / IP

(Transmission Control Protocol / Internet Protocol)

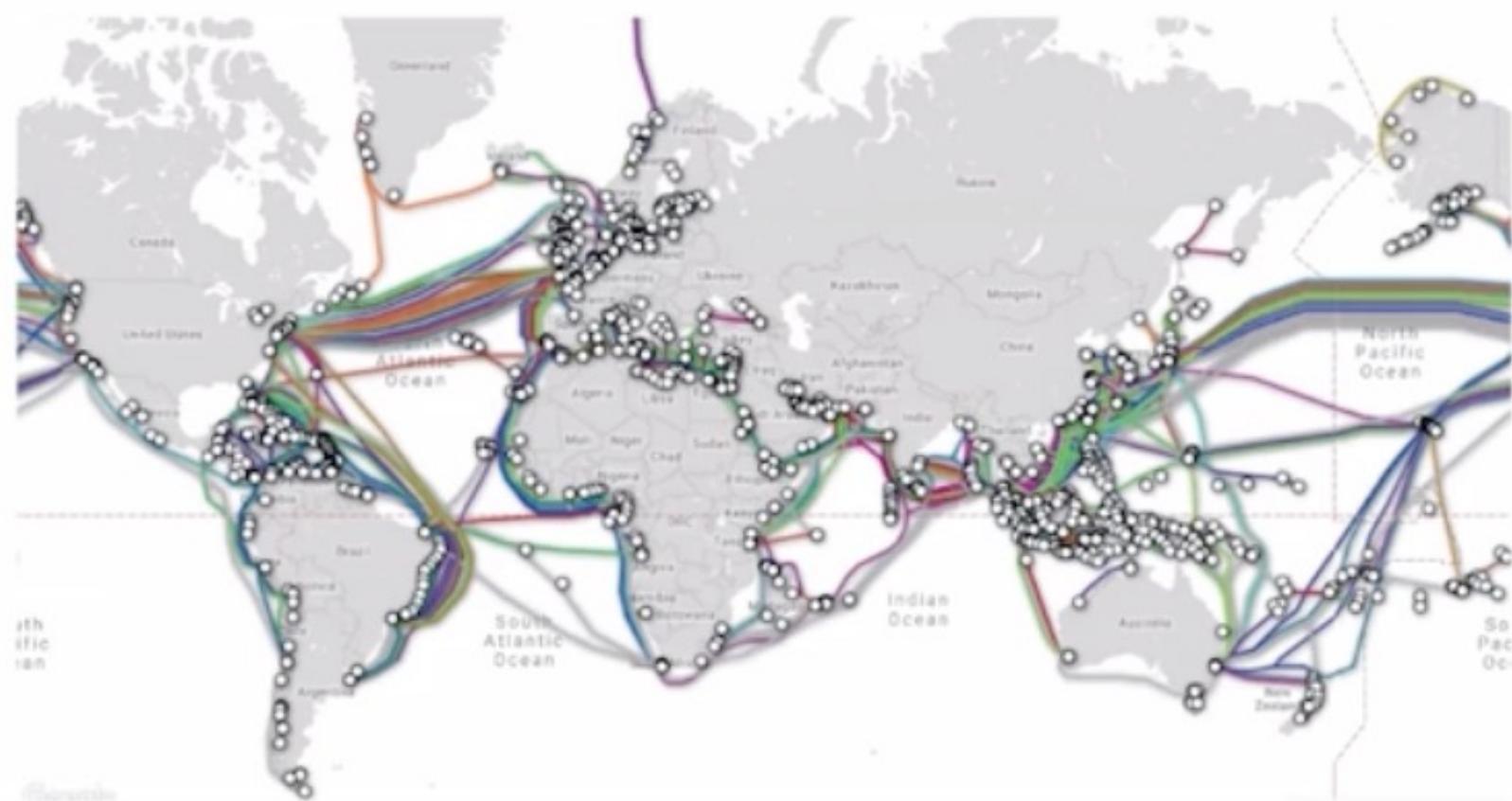
APPLICATION	HTTP / FTP
TRANSPORT	TCP, UDP
NETWORK	IP, ROUTERS
DATA LINK	ETHERNET, SWITCHES
PHYSICAL	CABLES

De dónde viene el
Internet?





Internet backbone



“

Internet es una abreviación de **Internetworking**, y se creó en los años 70's para referirse a los cables físicos y las computadoras que se conectan entre sí.

”

ARPANET

(Advanced Research Projects Agency NETwork)

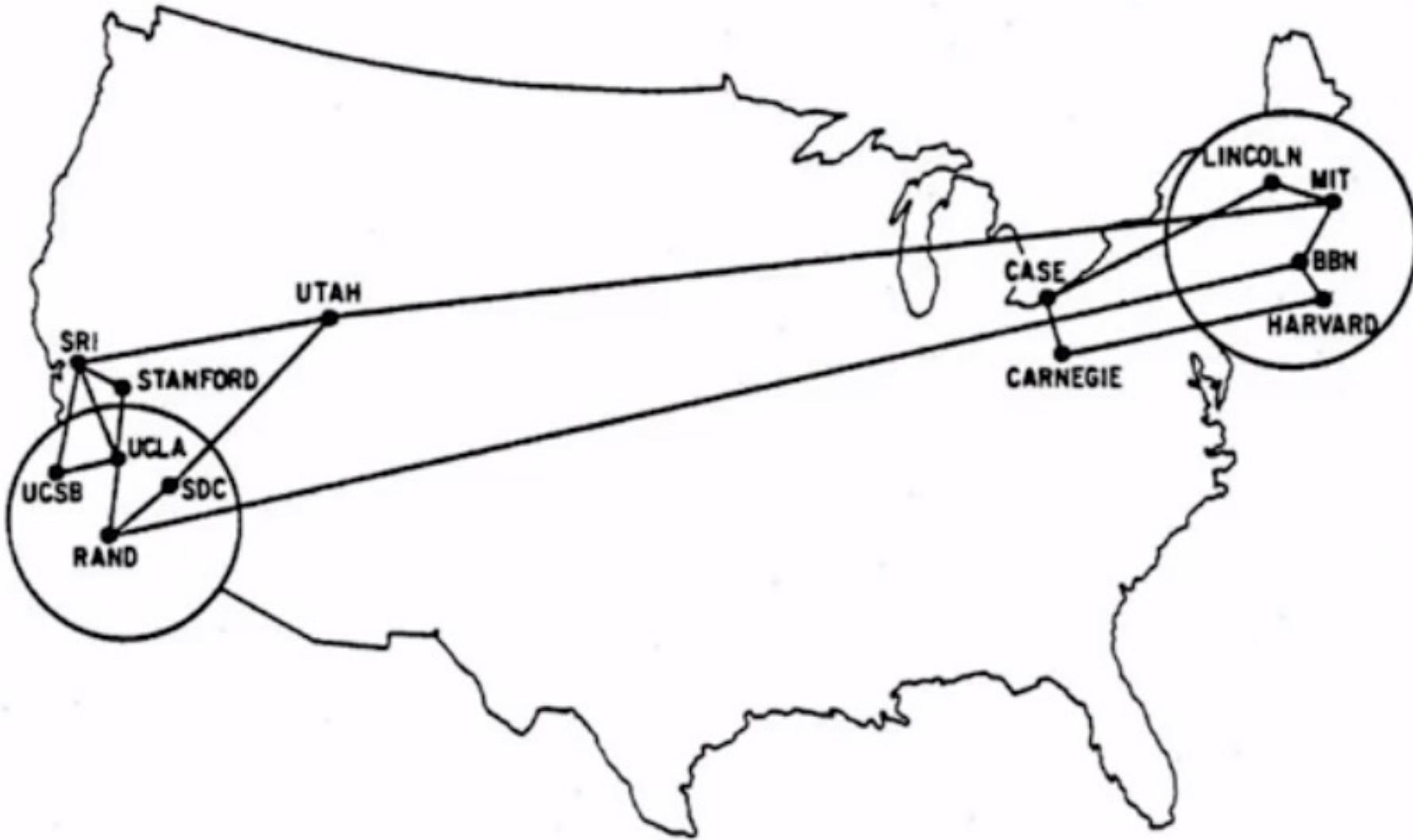
Fue un proyecto de investigación académico.

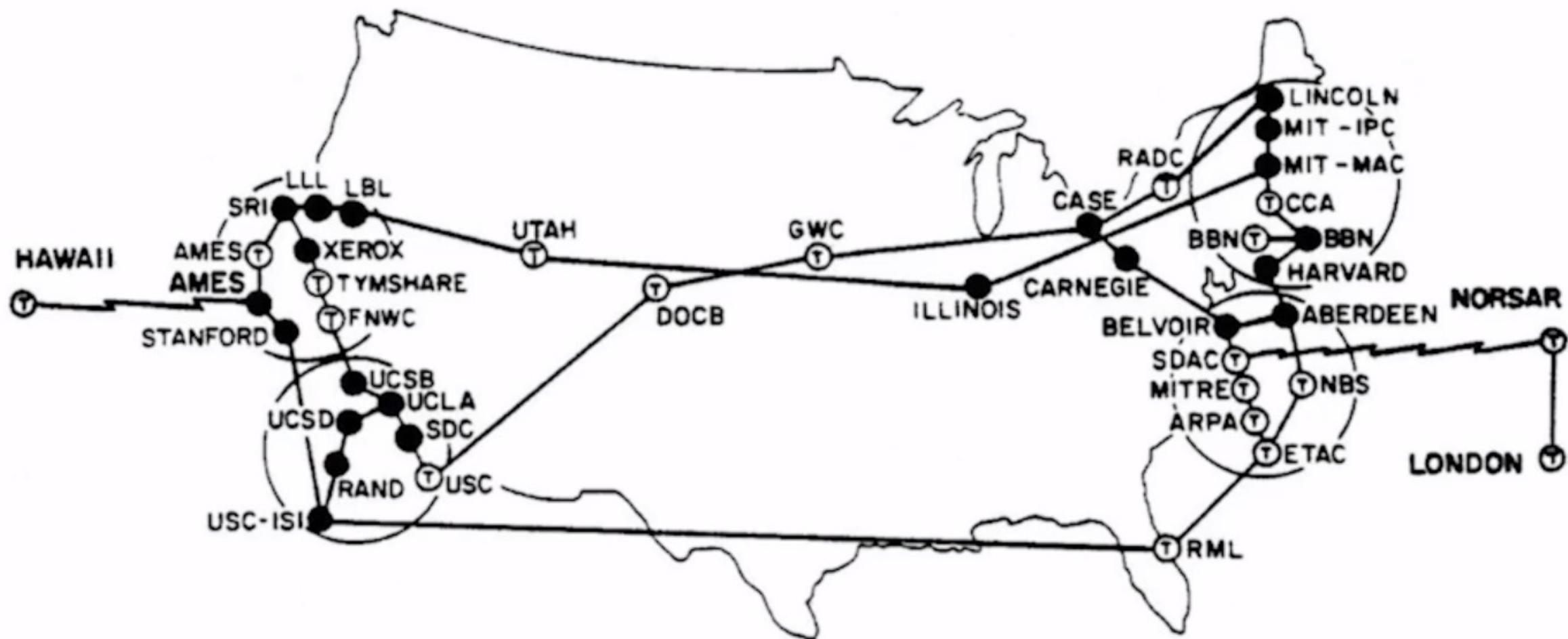


The ARPANET in December 1969

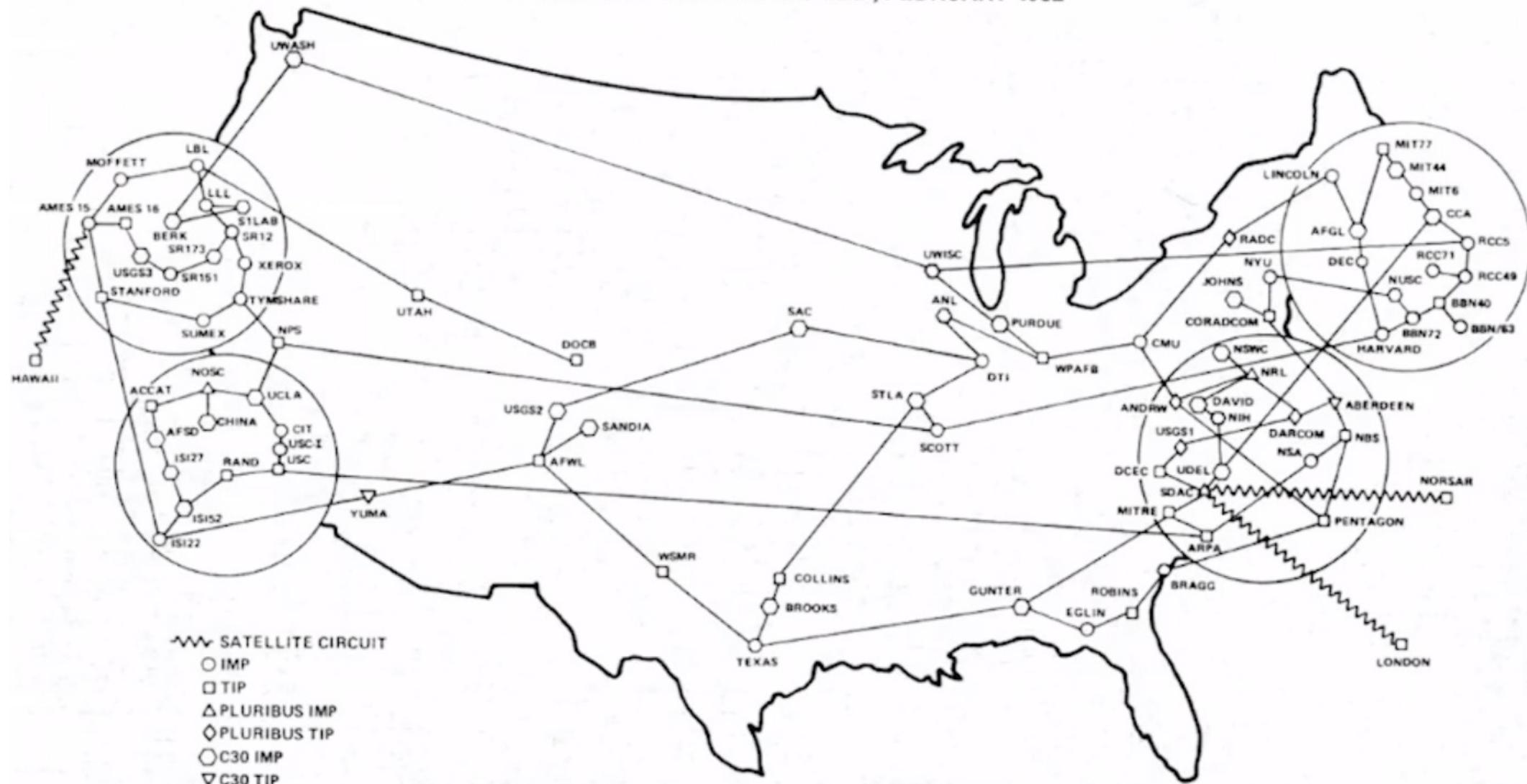
El primer mensaje

El primer mensaje de una computadora a otra estando conectadas tenía que ser “Login” pero solo llegó “Lo”.



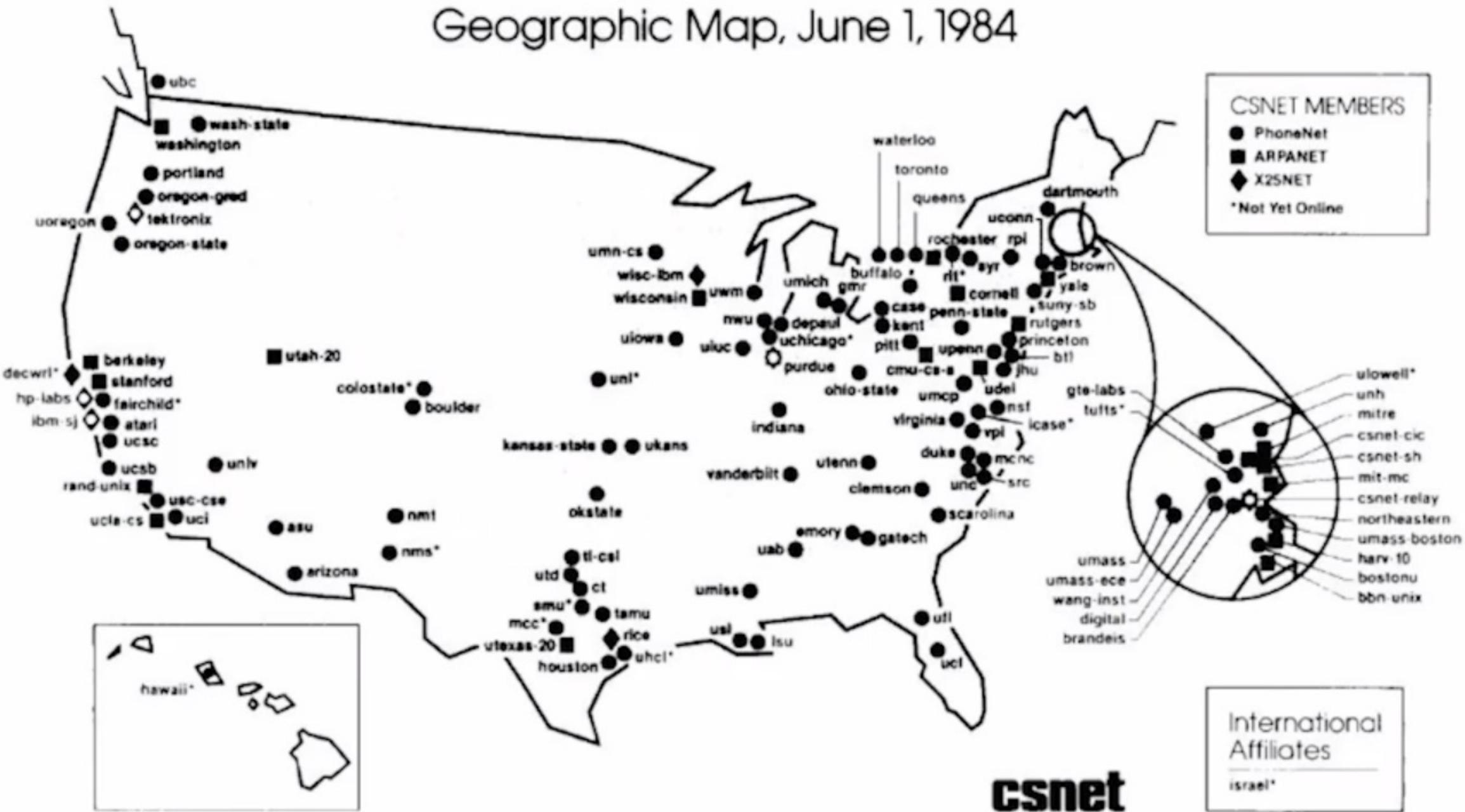


ARPANET GEOGRAPHIC MAP, FEBRUARY 1982



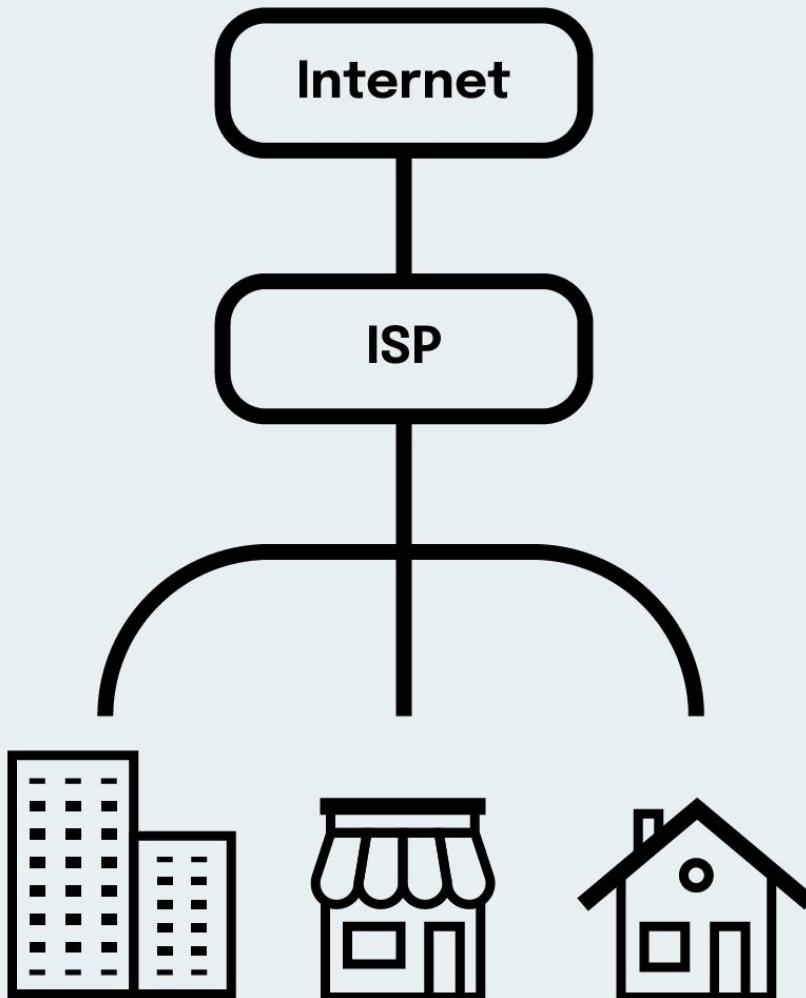
(NOTE: THIS MAP DOES NOT SHOW ARPA'S EXPERIMENTAL SATELLITE CONNECTIONS)
NAMES SHOWN ARE IMP NAMES, NOT (NECESSARILY) HOST NAMES

Geographic Map, June 1, 1984

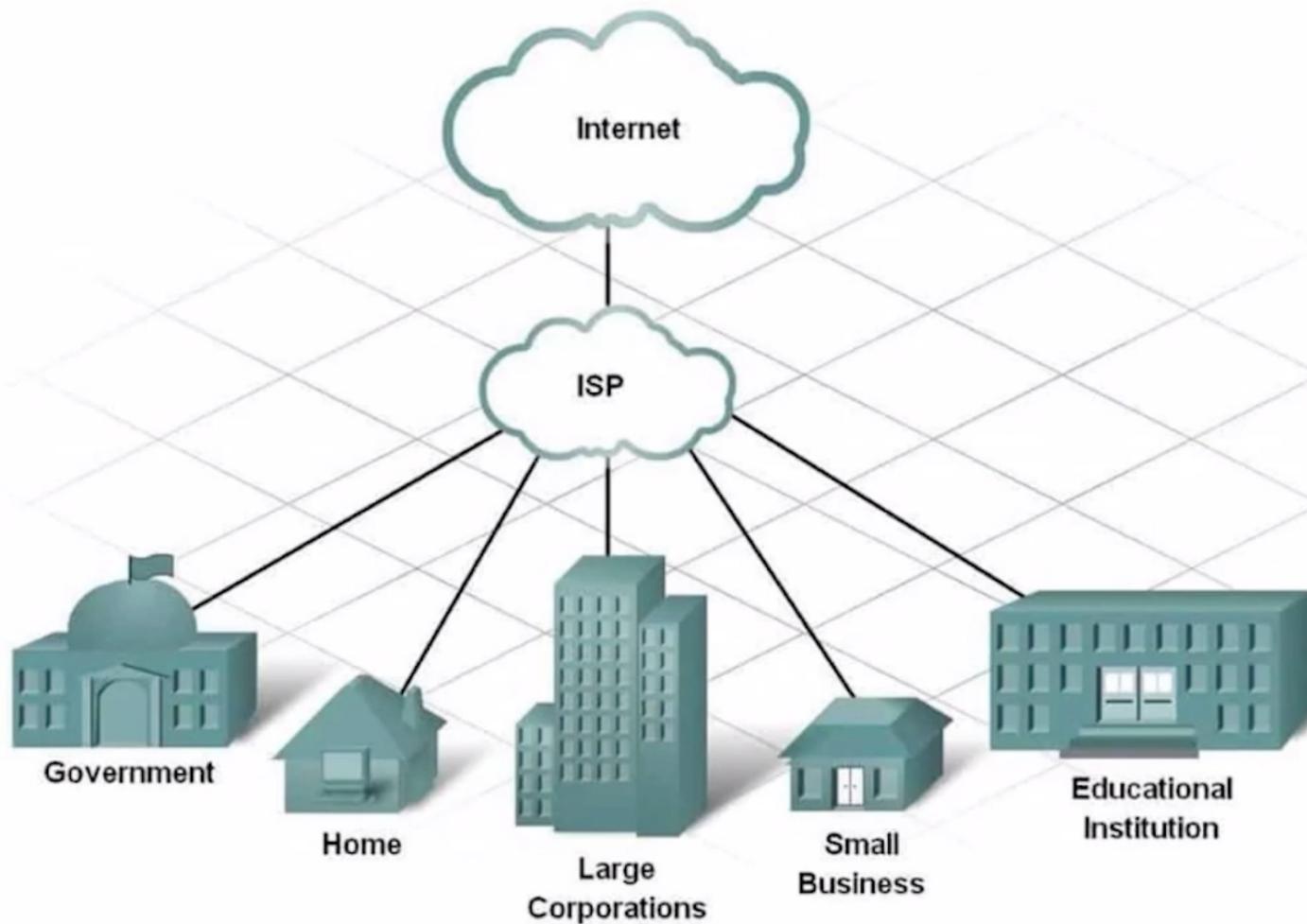


ISP

Por sus siglas en inglés: Internet Service Provider. Se refiere a los proveedores de internet para los usuarios comunes como nosotros. Proveen de la infraestructura y conexión necesaria para poder acceder a internet libremente.



ISP (Internet Service Provider)





DNS (Domain Name System)

172.217.7.23

Tim Berners-Lee



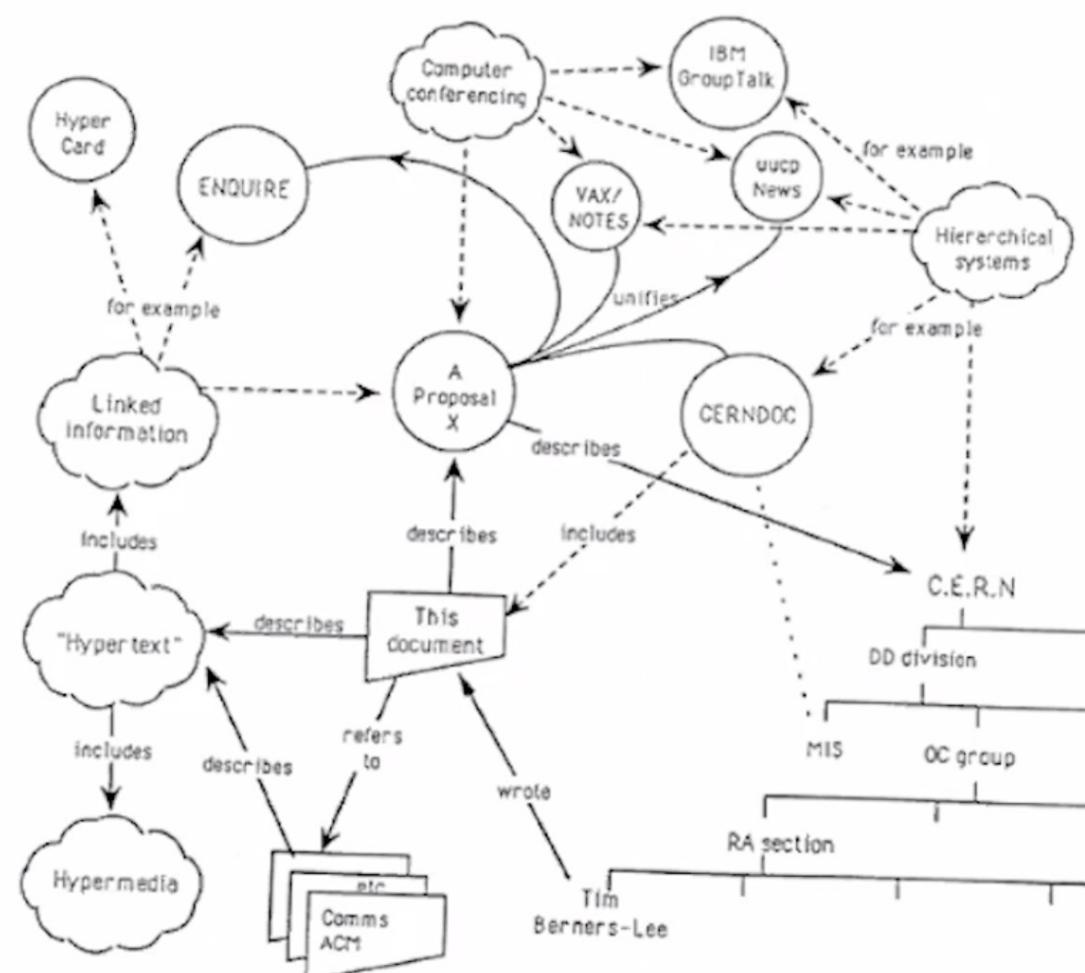
© Imago/Leemage/CERN

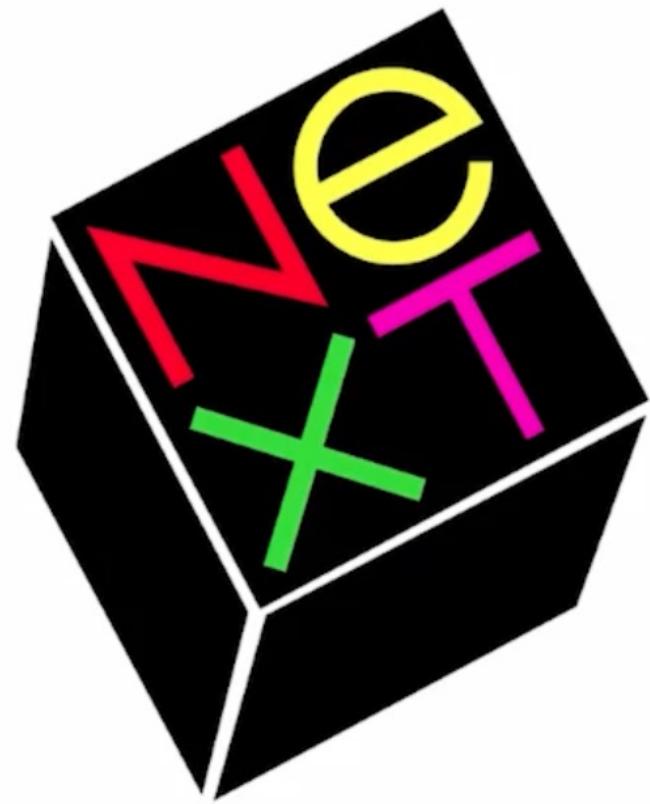
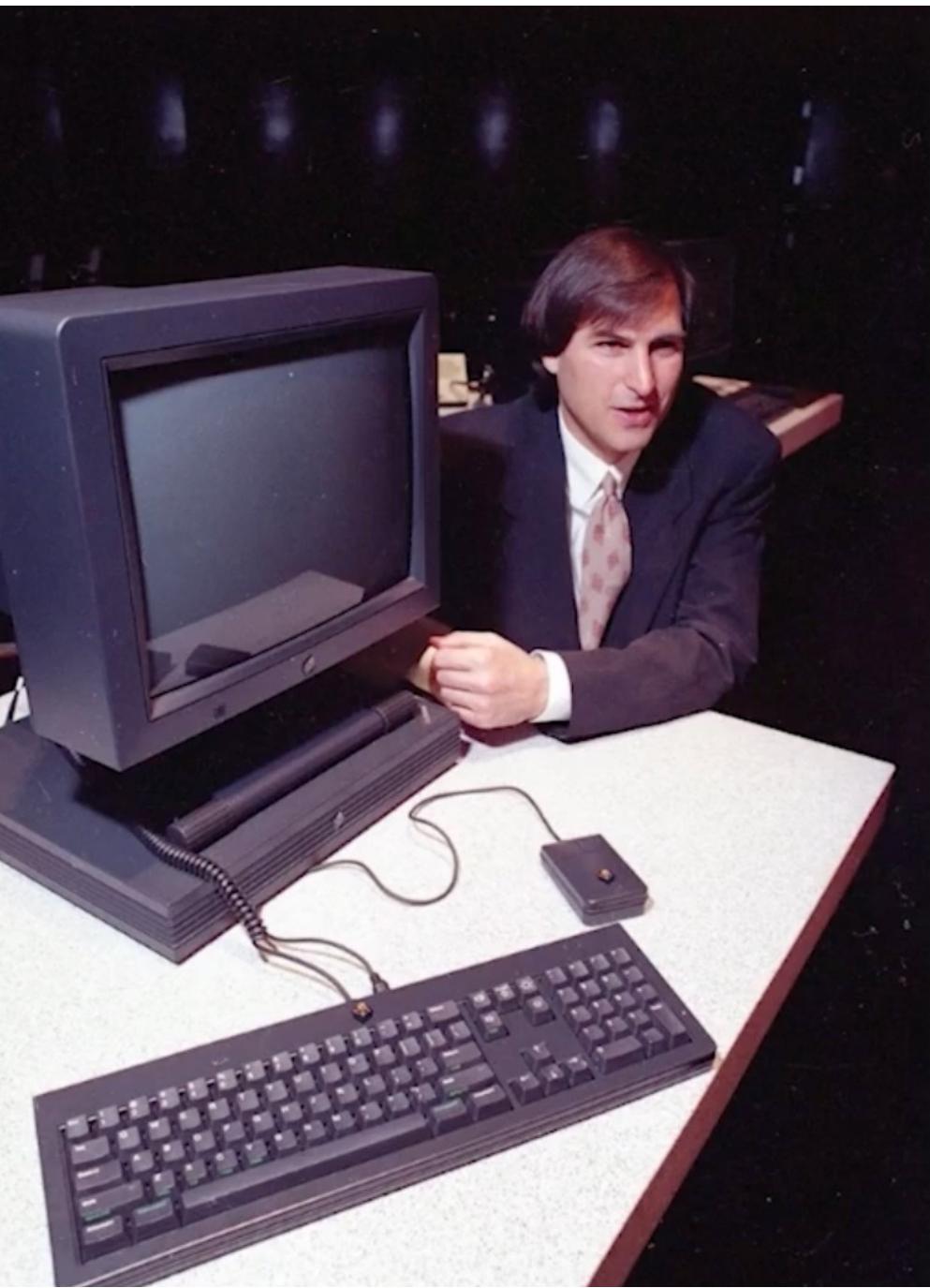
Information Management: A Proposal

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 control





Tim había escrito las tres tecnologías fundamentales que siguen siendo la base de la web actual.

- **HTML:** HyperText Markup Language.
El lenguaje de marcado (formato) para la web.
- **URL:** Uniform Resource Locator. Un tipo de "dirección" que es única y que se utiliza para identificar cada recurso en la web.
- **HTTP:** Hypertext Transfer Protocol.
Permite la recuperación de recursos vinculados de toda la web.

La primer página web

World Wide Web

The WorldWideWeb (W3) is a wide-area [hypermedia](#) 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 [executive summary](#) of the project, [Mailing lists](#) , [Policy](#) , November's [W3 news](#) , [Frequently Asked Questions](#) .

[What's out there?](#)

Pointers to the world's online information, [subjects](#) , [W3 servers](#), etc.

[Help](#)

on the browser you are using

[Software Products](#)

A list of W3 project components and their current state. (e.g. [Line Mode](#) , [X11 Viola](#) , [NeXTStep](#) , [Servers](#) , [Tools](#) , [Mail robot](#) , [Library](#))

[Technical](#)

Details of protocols, formats, program internals etc

[Bibliography](#)

Paper documentation on W3 and references.

[People](#)

A list of some people involved in the project.

[History](#)

A summary of the history of the project.

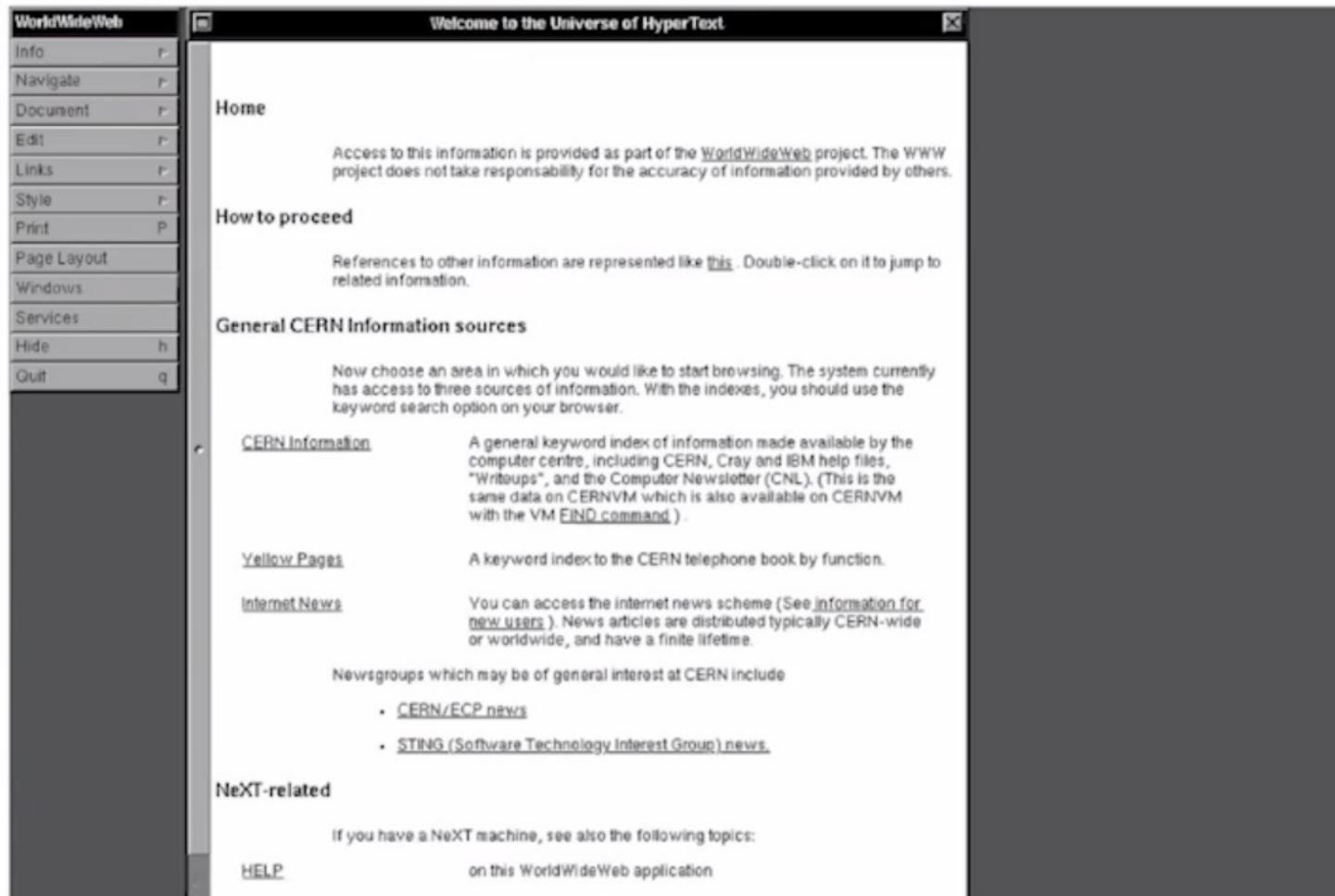
[How can I help ?](#)

If you would like to support the web..

[Getting code](#)

Getting the code by [anonymous FTP](#) , etc.

World Wide Web browser



World Wide Web consortium



W3C cuenta con 462 miembros, entre ellos se encuentran:

Airbnb Inc.

Facebook

Alibaba Group

Amazon

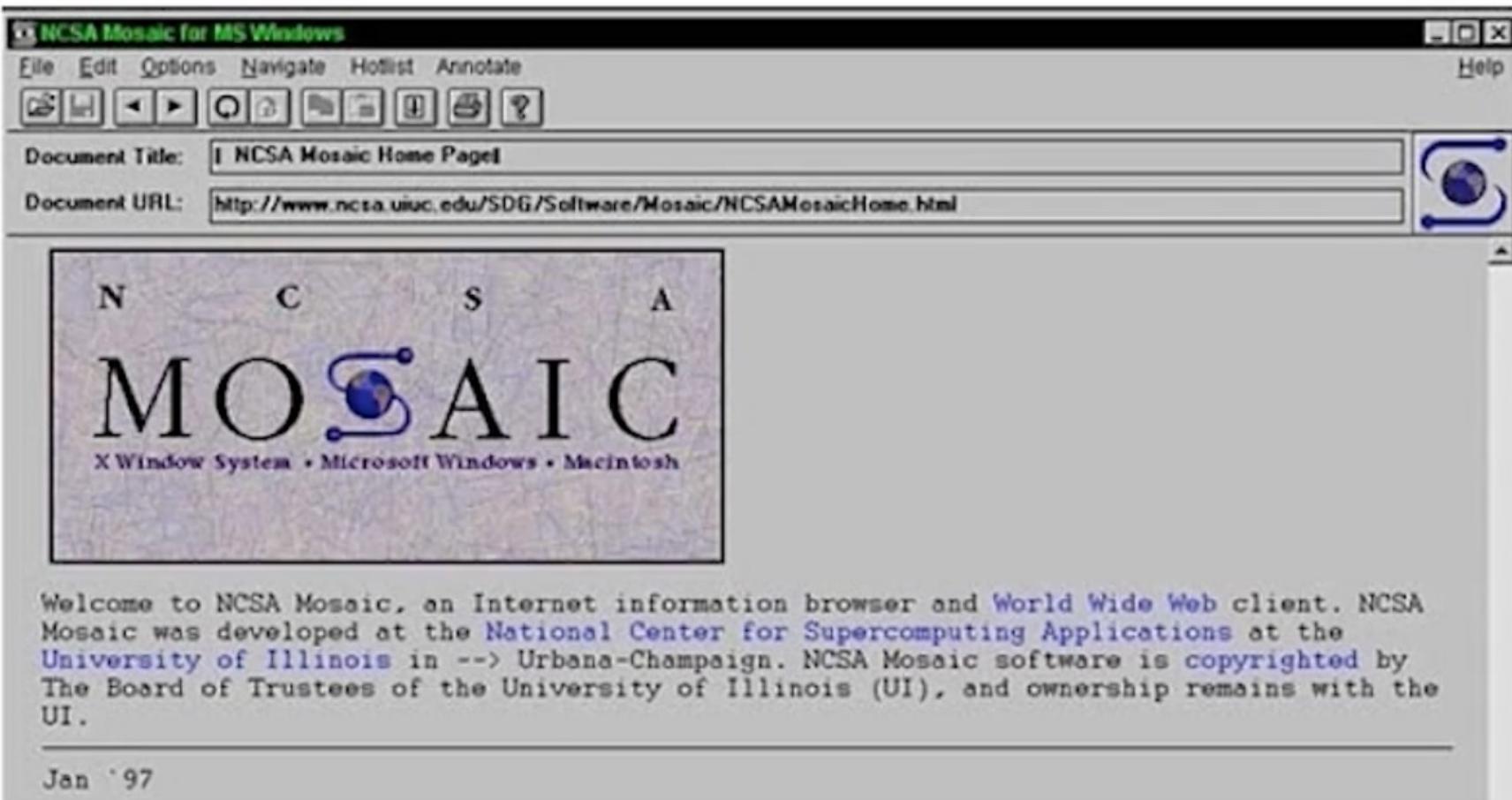
Apple, Inc.

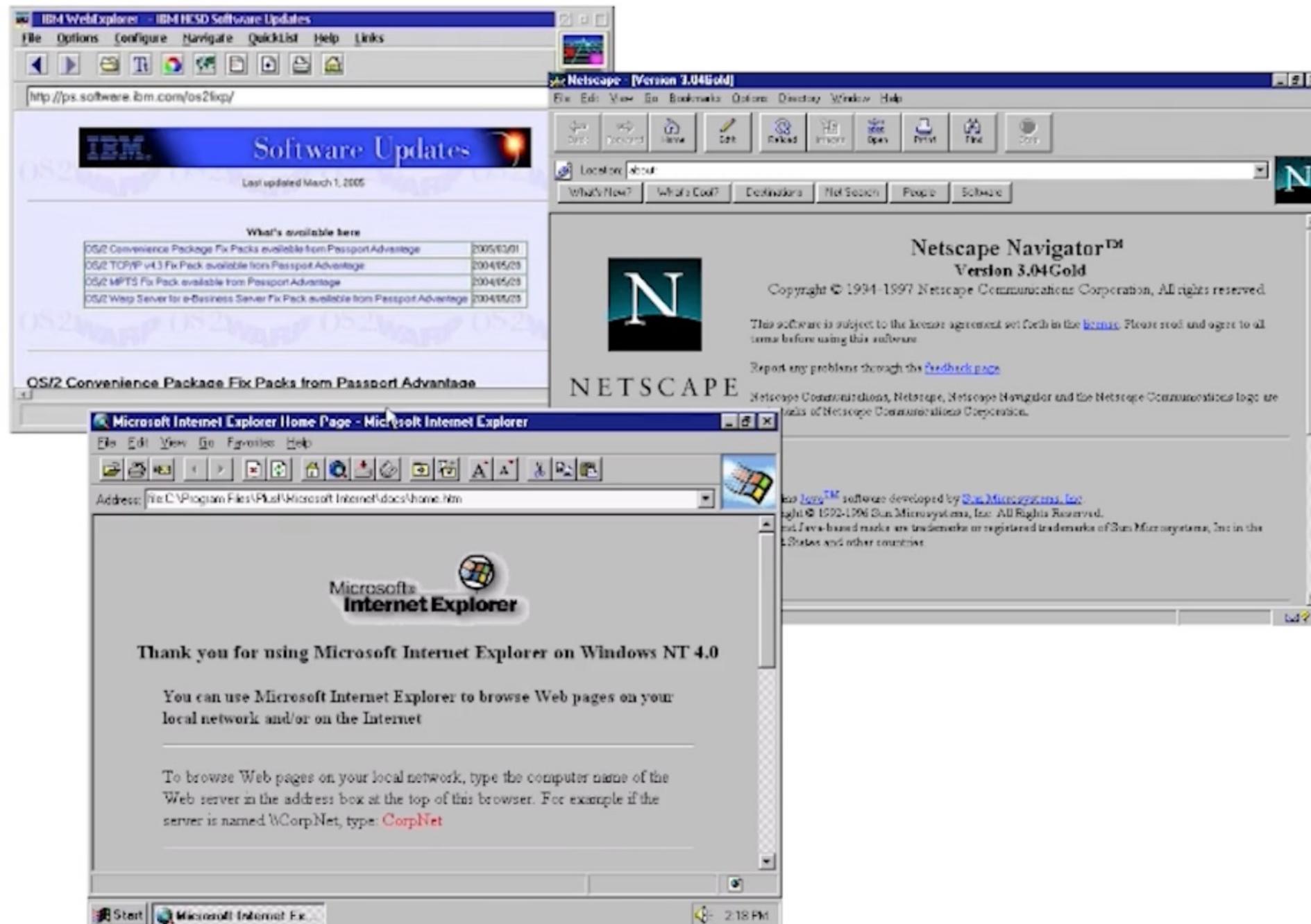
BBVA

Cisco

Indeed

Mosaic





Wikipedysta:Amgne/monobook.css - Wikinews - Mozilla

W http://pl.wikipedia.org/w/index.php?title=Wikipedysta:Amgne/monobook.css ... Search Print

Home Bookmarks Ardex Ikonas Main Page - Wikinews Wikimedia Ranking Tools Safety H-SPHERE Saenger Portal PHP Mac

Create an account or log in ... W Wikipedysta:Amgne/monobook.css W Revolutionary Armed Forces ...

wikinews dyduska edybij Materiały prezentacji obserwuj

Wikipedysta:Amgne/monobook.css

Wikinews Amgne

Note: After saving, you have to clear your browser cache to see the changes: Mozilla: click Reload for Ctrl-R; IE/Opera: Ctrl-F5; Safari: Cmd-R; Konqueror: Ctrl-R.

```
/* Wikinews CSS v0.6 */  
/* Last update: 7th March 2006 */  
/* ----- */  
/* This skin works under Opera */  
/* and Gecko browsers, there are */  
/* glitches under IE, and I'm */  
/* not sure about other browsers */  
/* so if anyone could send me */  
/* screenshots of this layout on */  
/* Mac and Linux browsers, it'd */  
/* be appreciated. */  
/* ----- */  
  
/* If you want to use this skin in your CSS, just paste the */  
/* import 'http://pl.wikinews.org/w/index.php?title=Wikipedysta: */  
/* monobook.css' */  
  
This will allow us to make changes in the skin, so that you  
*/  
  
body {  
background: white !important;  
}  
h1, h2, h3, h4, h5 {  
border-bottom: 1px solid #808080;  
font-family: verdana;  
}  
*/
```

GIGAZINE - 2007 6 11

File Edit View History Bookmarks Window Help

http://gigazine.net/ RSS Q gigazine

Ads by Google

About Safari

Safari

Version 3.0 (522.11.3)

Copyright © 2007 Apple Inc. All Rights Reserved.

2007 06 11 Web gigazine.net
18 01
00 Powered by livepage

Ads by Google

Google

New Tab

← → C ⌘ | Type to search ▶ ⟲ ⟳

Google Chrome Screen... Google Blogoscooped

Other bookmarks

Most visited

Google Blogoscooped

Google

Google Blogoscooped

Redirecting

Google Chrome Sc...

Google Blogoscooped

Waxy.org: Links Mi...

Google Maps

Searches

Search your history

Google

LEO de->en

Amazon.com

Recent bookmarks

about:blank

Google Blogoscooped

Google Chrome Screenshots

Calendar

Friendfeed

Check PageRank

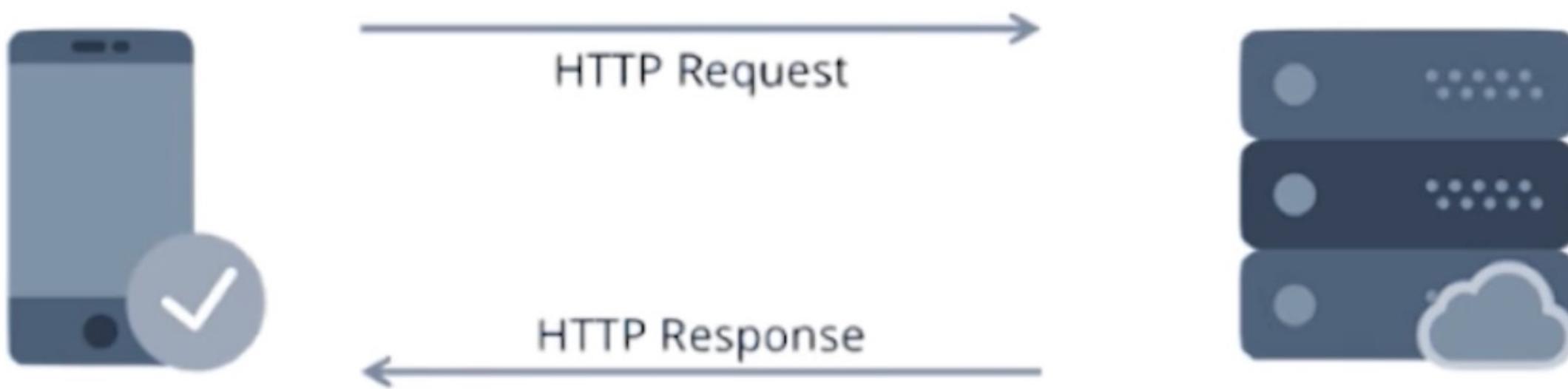
A screenshot of the Google Chrome Beta browser window. The title bar says "Google". The address bar has "Type to search" and navigation buttons. Below the address bar is a toolbar with icons for back, forward, refresh, and other functions. The main content area shows a "Most visited" section with thumbnails of recent pages like Google Blogoscooped, Google, and Redirecting. To the right is a "Searches" sidebar with a search bar and a list of recent searches: "Search your history", "Google", "LEO de->en", and "Amazon.com". Another sidebar titled "Recent bookmarks" lists "about:blank", "Google Blogoscooped", "Google Chrome Screenshots", "Calendar", "Friendfeed", and "Check PageRank". The overall interface is clean with a blue and white color scheme.

HTTP

Hypertext Transfer Protocol



HTTP

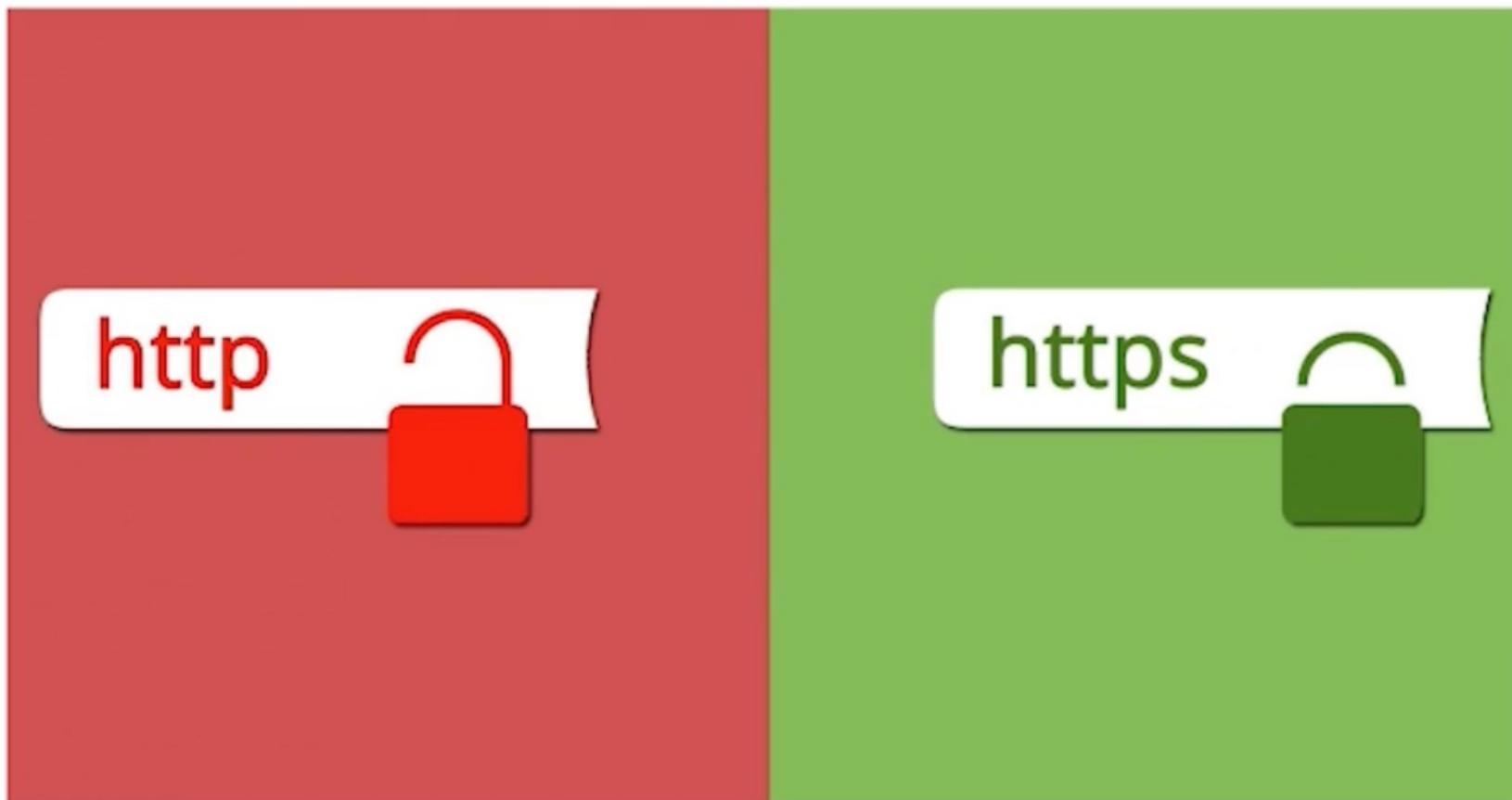


HTTP Methods

Method	Descripción
GET	Solicita datos
POST	Envía datos
PUT	Crea o reemplaza datos
DELETE	Borra datos específicos

HTTPS

Hypertext Transfer Protocol Secure



HTTPS

Hypertext Transfer Protocol Secure

HTTP vs HTTPS



La guerra de los navegadores



HTML

HTML



css

css



JavaScript





HTML



CSS



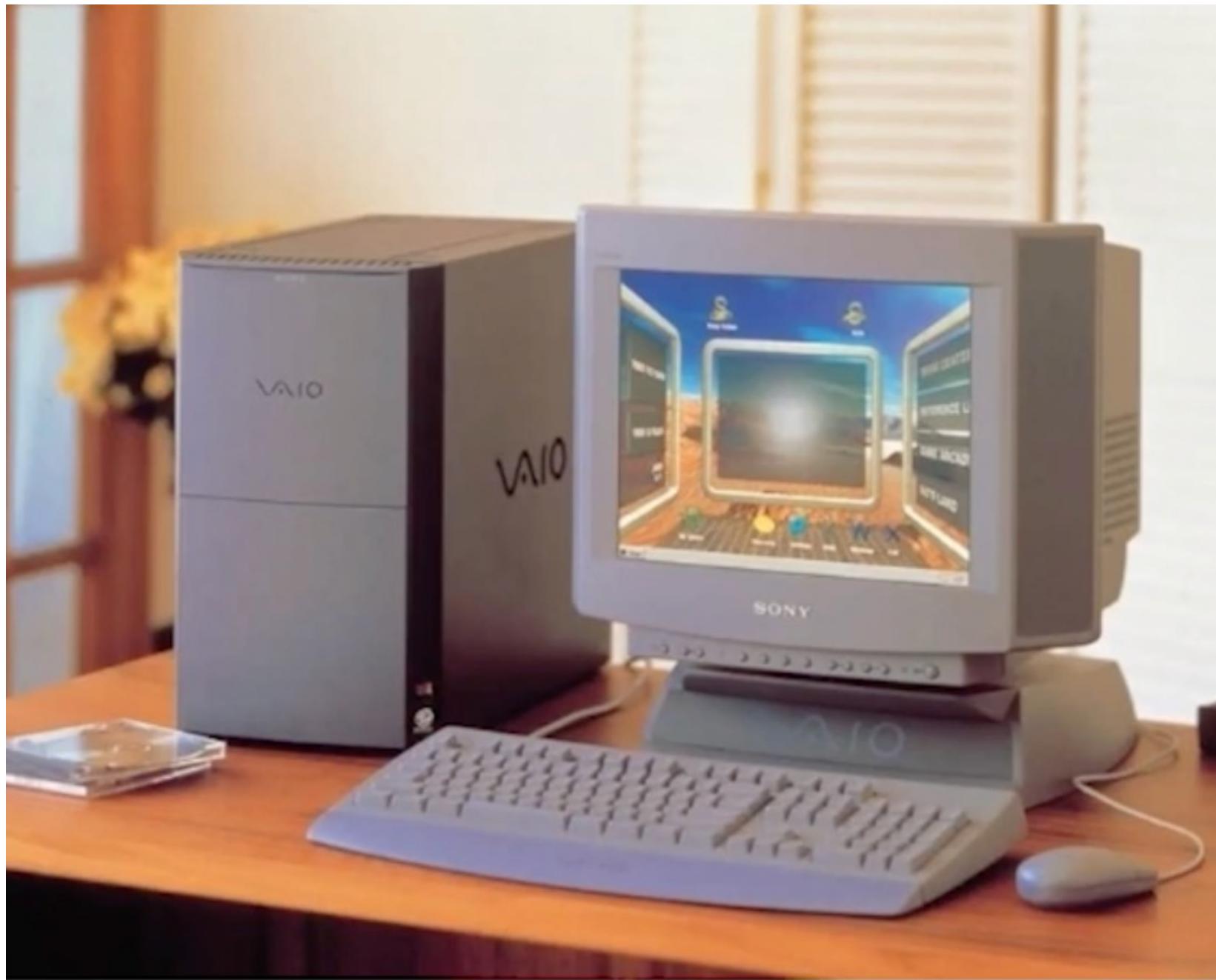
JAVASCRIPT

WebAssembly

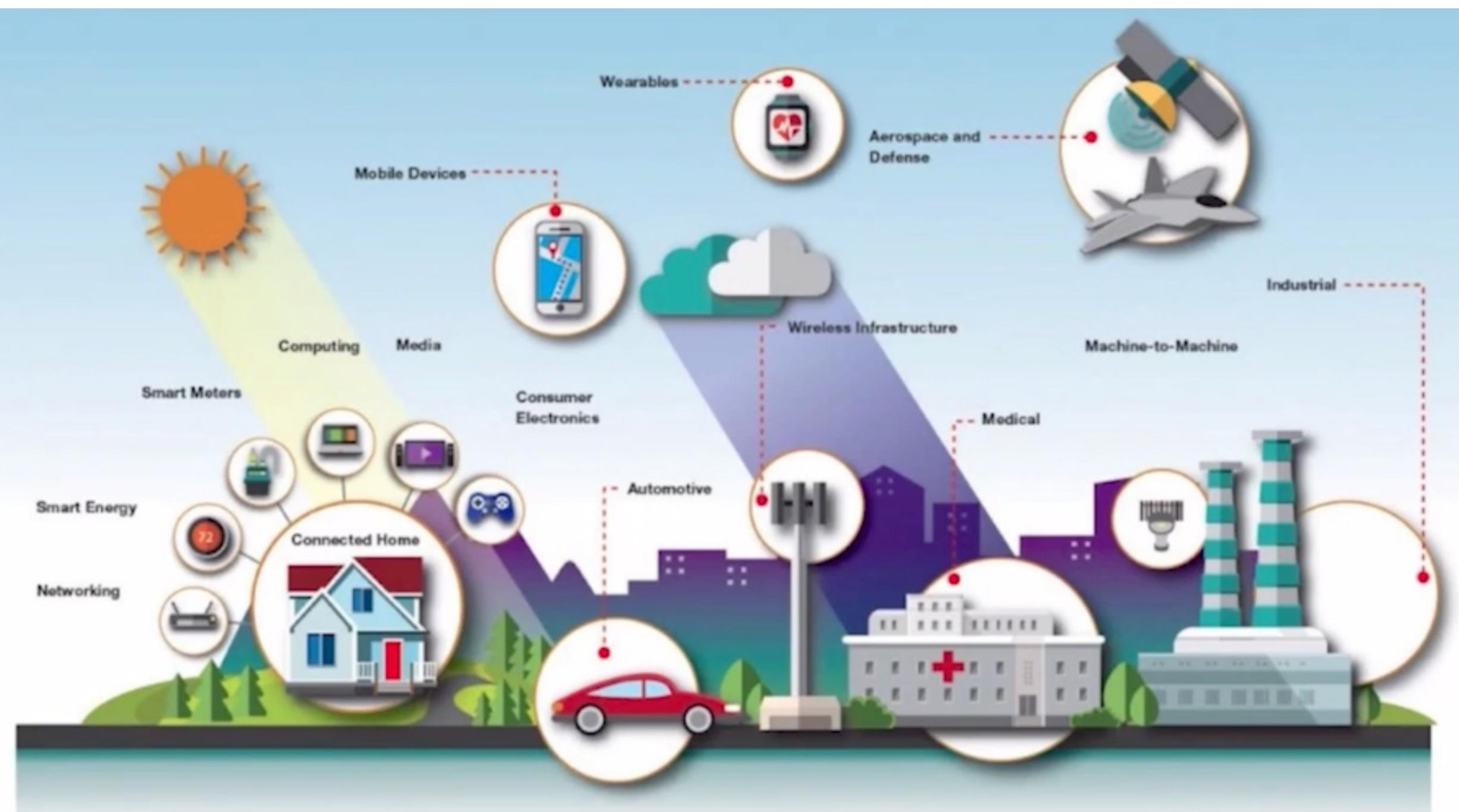


Estado actual

- + 4,000 millones de dispositivos móviles conectados a Internet = más de la mitad de la humanidad.



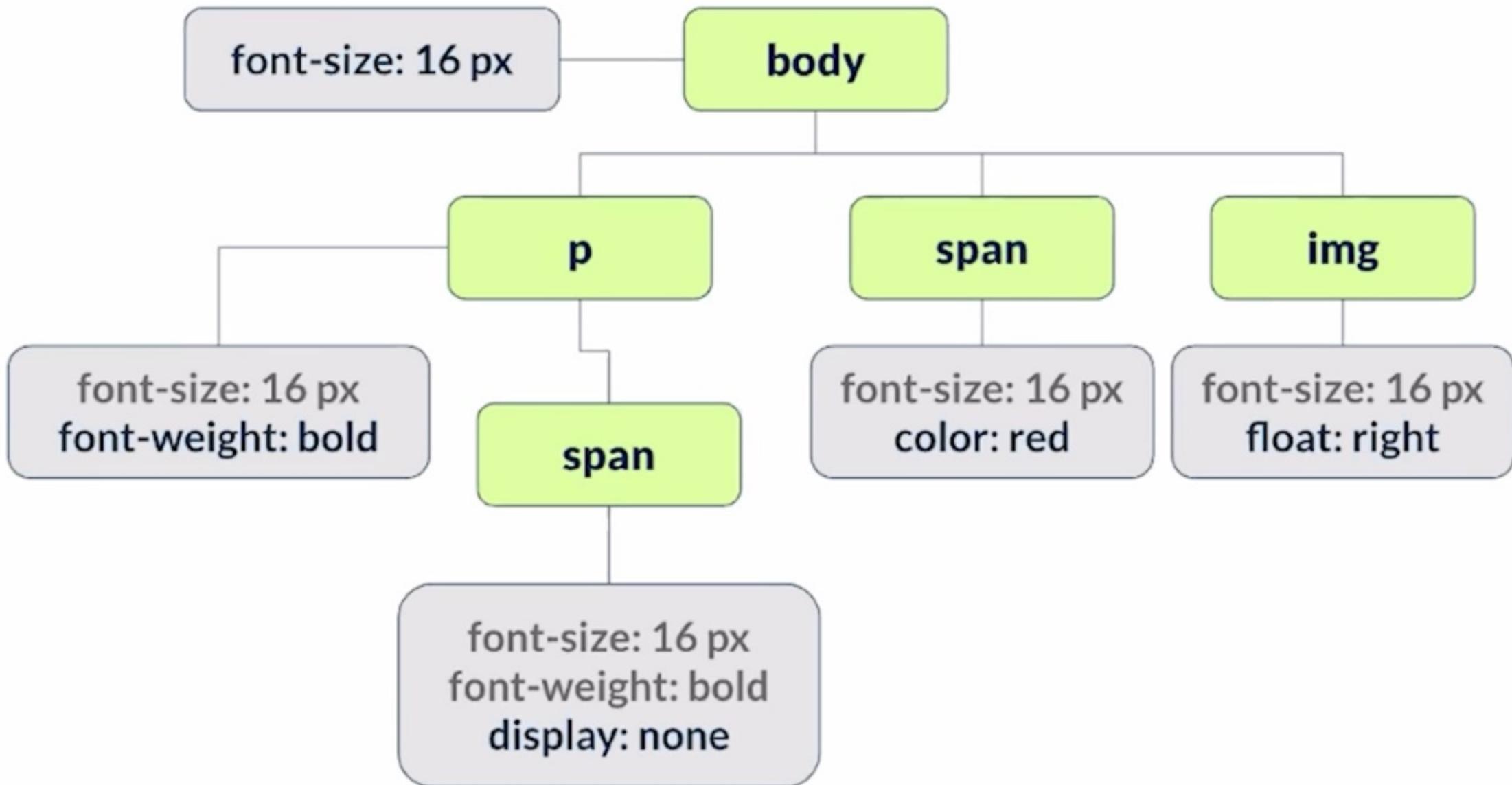


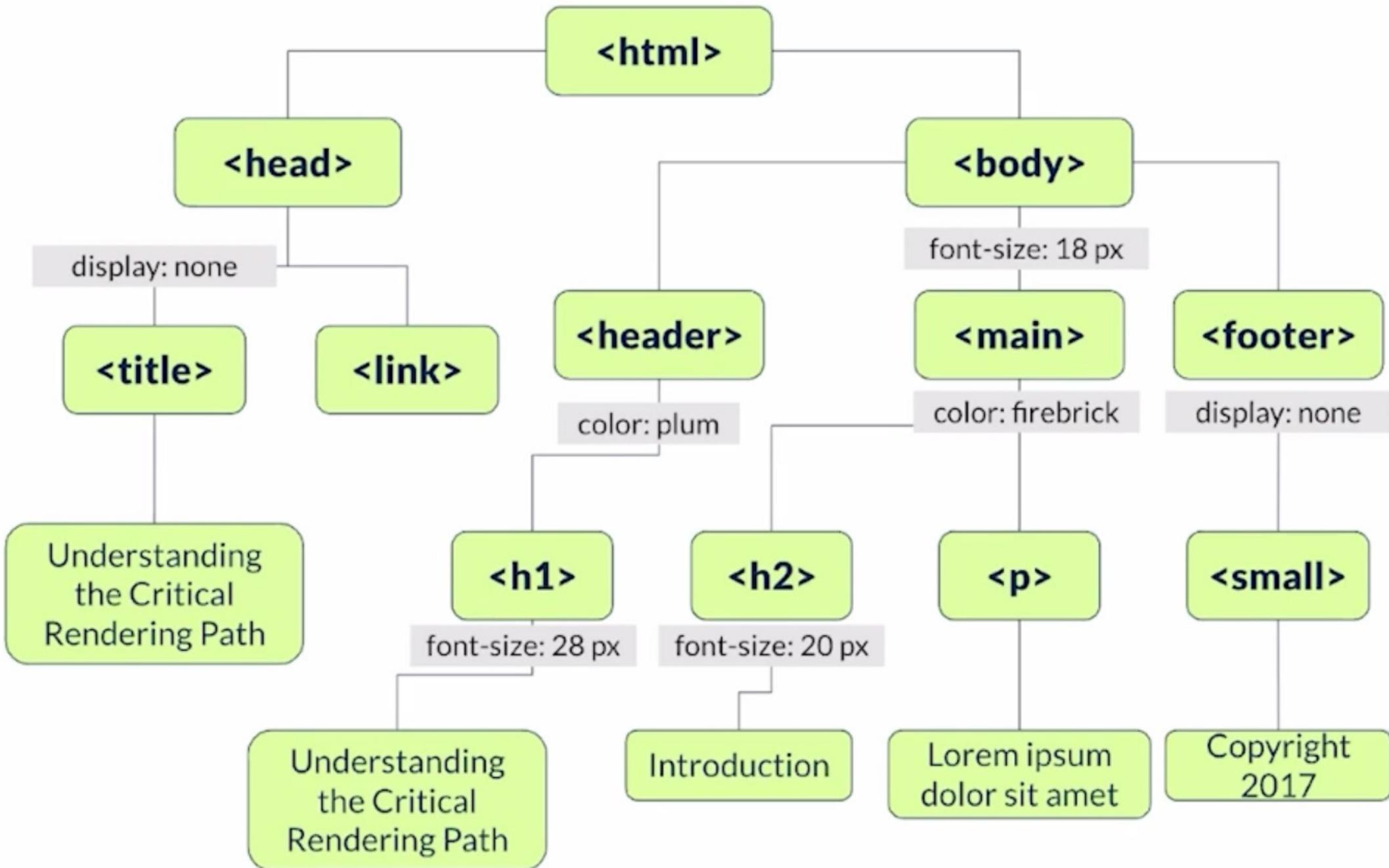


Machine learning & artificial intelligence

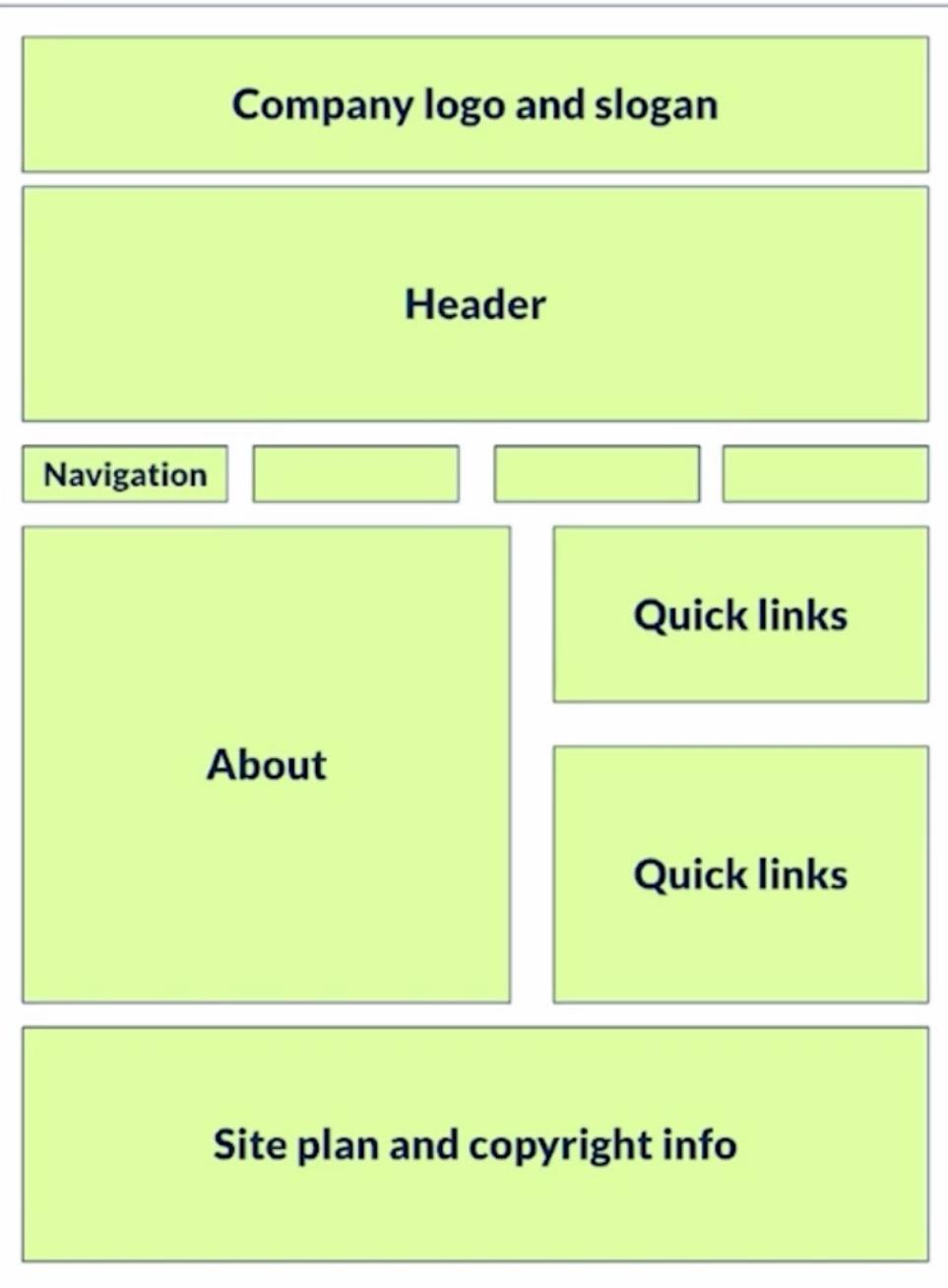








Layout



Paint

