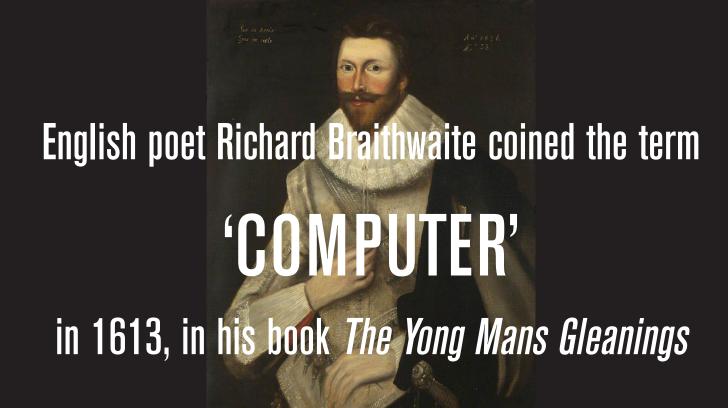
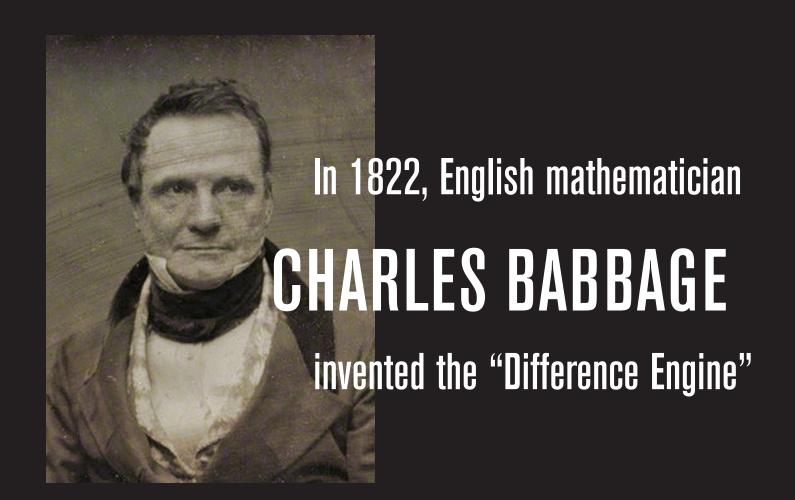
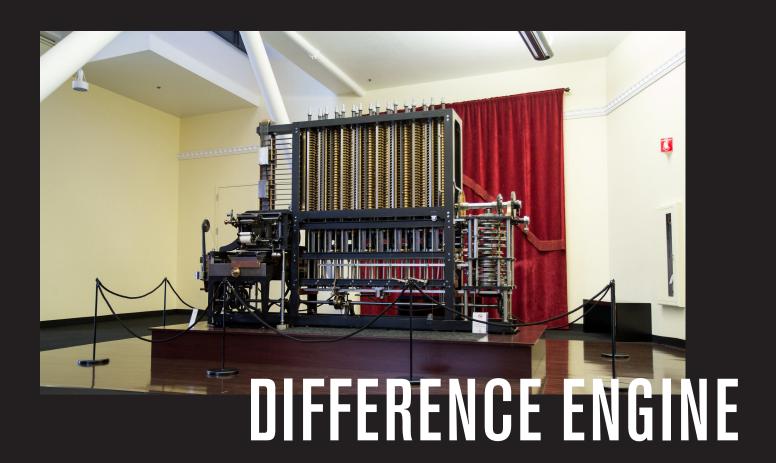
A BRIEF HISTORY OF THE INTERNET BIRTH TO HTML



describing a person who did computations.

For hundreds of years, 'computer' was a job title,





He consulted with Ada Lovelace, a 17-year-old mathematical genius, daughter of Lord Byron.

Babbage did not work alone.

Ada Lovelace added extensive notes to Italian scientist Luigi Menabrea's paper on Babbage's invention. Those notes amount to the first computer program.

Diagram for the computation by the Engine of the Numbers of Bernoulli. See Note G. (page 722 et seq.)																										
F	. 1	.						Data.							Working Variables.								Result Variables.			
	Number of Operation.	Nature of Operation.	Variables acted upon.	Variables receiving results.	Indication of change in the value on any Variable.	Statement of Results.	1V ₁ 0 0 0 1	1V ₂ O 0 0 2	1V ₃ 0 0 0 4	°V4 00 00 0	0V5	°V ₆ ○ 0 0 0	°V7	°V _s ○ ○ ○ ○ ○	°V, 0000	0V ₃₀ ○ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0V ₁₁ 0 0 0 0		°V ₁₂ ○ 0 0 0 0	°V ₁₃ ○ ○ 0 0 0	B, in a decimal O.A. fraction,	B ₃ in a decimal On traction.	Bs in a decimal Ox fraction.	°V ₂₄ ○ 0 0 0 B ₇		
	1 2 3 4 5 6 7	- + + + -	$^{1}V_{4} - ^{1}V_{1}$ $^{1}V_{5} + ^{1}V_{1}$ $^{2}V_{6} + ^{2}V_{4}$ $^{1}V_{11} + ^{1}V_{2}$ $^{0}V_{13} - ^{2}V_{11}$	² V ₁₁	$\begin{cases} 1V_4'' = 2V_4' \\ 1V_1 = 1V_1 \\ 1V_2 = 2V_3' \\ 1V_1 = 2V_3 \\ 1V_1 = 3V_1 \\ 2V_3 = 0V_4 \\ 2V_4 = 0V_4 \\ 1V_2 = 1V_2 \\ 2V_{11} = 0V_{11} \\ 1V_{2} = 1V_{23} \\ 2V_{11} = 2V_{23} \\ 1V_{11} = 2V_{23} \\ 2V_{11} = 2V_{23} \\ 2V_{11} = 2V_{23} \\ 1V_{11} = 2V_{23} \\ 2V_{11} = 2V_{23} \\ 2V_{12} = 2V_{23} \\ 2V_{13} = 2V_{23} \\ 2V_{13} = 2V_{23} \\ 2V_{13} = 2V_{23} \\ 2V_{14} = 2V_{23} \\ 2V_{15} = 2V_{25} \\ 2V_{15} = 2V_{15} \\ 2V_{15}$	$ \begin{array}{l} = 2n \\ = 2n - 1 \\ = \frac{2n - 1}{2n + 1} \\ = \frac{1}{2}\frac{2n - 1}{2n + 1} \\ = -\frac{1}{2}\frac{2n - 1}{2n + 1} = A_0 \\ = n - 1(=3) \end{array} $	1 1	2 2	n	2n 2n-1 0	2 n + 1 0	2 n				 n-1	$\begin{array}{c} \frac{2n-1}{2n+1} \\ \frac{1}{2n+1} \\ \frac{1}{2} \cdot \frac{2n-1}{2n+1} \\ 0 \end{array}$			$-\frac{1}{2} \cdot \frac{2n-1}{2n+1} = \Lambda_0$						
	1	+ × +	1V ₆ +1V ₇ 1V ₂₁ ×8V ₁₁ 1V ₁₂ +1V ₁₃	1V ₁₂	${V_{12}={}^{0}V_{12}\atop {}^{1}V_{13}={}^{2}V_{13}}$	$ \begin{aligned} &= 2 + 0 = 2 \\ &= \frac{2}{3} = \lambda_1 \\ &= B_1 \cdot \frac{2}{3} = B_1 \lambda_1 \\ &= -\frac{1}{3} \cdot \frac{2}{3} = B_1 \lambda_1 \\ &= -\frac{1}{3} \cdot \frac{2}{3} \cdot n - 1 + B_1 \cdot \frac{2}{3} \\ &= n - 2 (= 2) \end{aligned} $		2				2n	2 2			 n-2	$\frac{2n}{2} = \Lambda_1$ $\frac{2n}{2} = \Lambda_1$ \dots		$B_1, \frac{2n}{2} = B_1 A_1$	$\left\{-\frac{1}{2}, \frac{2n-1}{2n+1} + \mathbf{B} \right\}$	В1					
1 1 1 1 1 1 2 2 2	4 5 5 6 6 6 7 7 8 8 8 9 9 0 0 1 1 1 2 2	+ + × - + + × × +	$1V_1 + 1V_7$ $2V_6 + 2V_7$ $1V_8 \times 3V_{11}$ $2V_6 - 1V_1$ $1V_1 + 2V_7$ $2V_6 + 3V_7$ $1V_9 \times 4V_{11}$ $1V_{22} \times 4V_{11}$ $1V_{22} \times 4V_{11}$ $2V_{10} + 2V_{10}$	³ V ₆ ³ V ₇ ¹ V ₉ ³ V ₁₁ ⁰ V ₁₂	$\begin{cases} 2V_1^T = 3V_2^T \\ 1V_1 = 1V_1 \\ 3V_6 = 3V_6 \\ 3V_7 = 3V_7 \\ \end{cases}$ $\begin{cases} 1V_9 = 0V_9 \\ 4V_{11} = 5V_{11} \end{cases}$ $\begin{cases} 1V_{22} = 1V_{22} \\ 0V_{12} = 2V_{12} \\ \end{cases}$ $\begin{cases} 2V_{12} = 0V_{12} \\ 0V_{12} = 0V_{12} \end{cases}$	$\begin{array}{c} = 2n-1 \\ = 2n-1 \\ = 2n-1 \\ = 3n-1 \\ = 32n-1 \\ = 3223n-1 \\ = 3223n-1 \\ = 3223n-1 \\ = 3223n-1 \\ = 323n-1 \\ = 3$	1 1					2 n - 1 2 n - 1 2 n - 2 2 n - 2	4 4		2n-1	 n - 3			B ₃ A ₃ 0	$\left\{ A_{2}+B_{1}A_{1}+B_{2}A_{3}\right\}$		Ba				
	. 1		ATT LOT	her	[4V,2=0V-2]	1 2			1		ws a rej	petition	of Oper	ations th	irteen	to twent	ty-three.									
2		+ +	1V ₁ + 1V ₃	1V ₈	Toy - ove	= B ₇ = n+1 = 4+1 = 5 by a Variable card. by a Variable card.			n + 1			0	0			-						-		В,		

ENDIX G

Many years later, four mainframe computers were networked together by US government researchers.

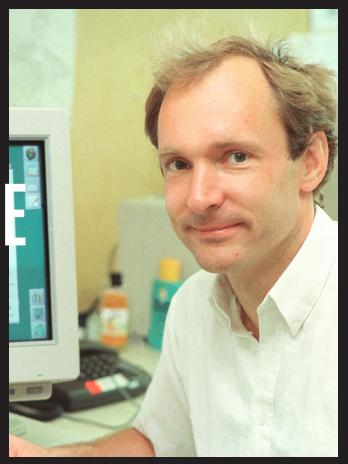
"The ARPANET was not started to create a Command and Control System that would survive a nuclear attack, as many now claim. To build such a system was, clearly, a major military need, but it was not ARPA's mission to do this; in fact, we would have been severely criticized had we tried. Rather, the ARPANET came out of our frustration that there were only a limited number of large, powerful research computers in the country, and that many research investigators, who should have access to them, were geographically separated from them."

Charles Herzfeld, ARPA Director (1965-1967)

Former physicist + computer scientist

TIM BURNERS-LE

invented HTML, http, URLs, the first web server and the browser and html editor.



HYPERTEXT MARKUP LANGUAGE

TEXT ENCODING SYSTEM

BURNER-LEE'S 3-PART WEB

- 1. HTML documents
- 2. Software programs called browsers
- 3. Sets of rules, known as the HTTP protocol

HTML Document Structure

HTML is the skeleton of a webpage

HTML code is made of tags, which represent elements on the page

Tags tell a browser what it is rendering

```
<!DOCTYPE html>
<html lang="en-U$">
  <head>
     <meta charset="utf-8" />
     <meta name="viewport" content="width=device-width" />
     <title>Page Title</title>
  </head>
  <br/><br/>body>
     Here is a sentence in a paragraph.
  </body>
</html>
```