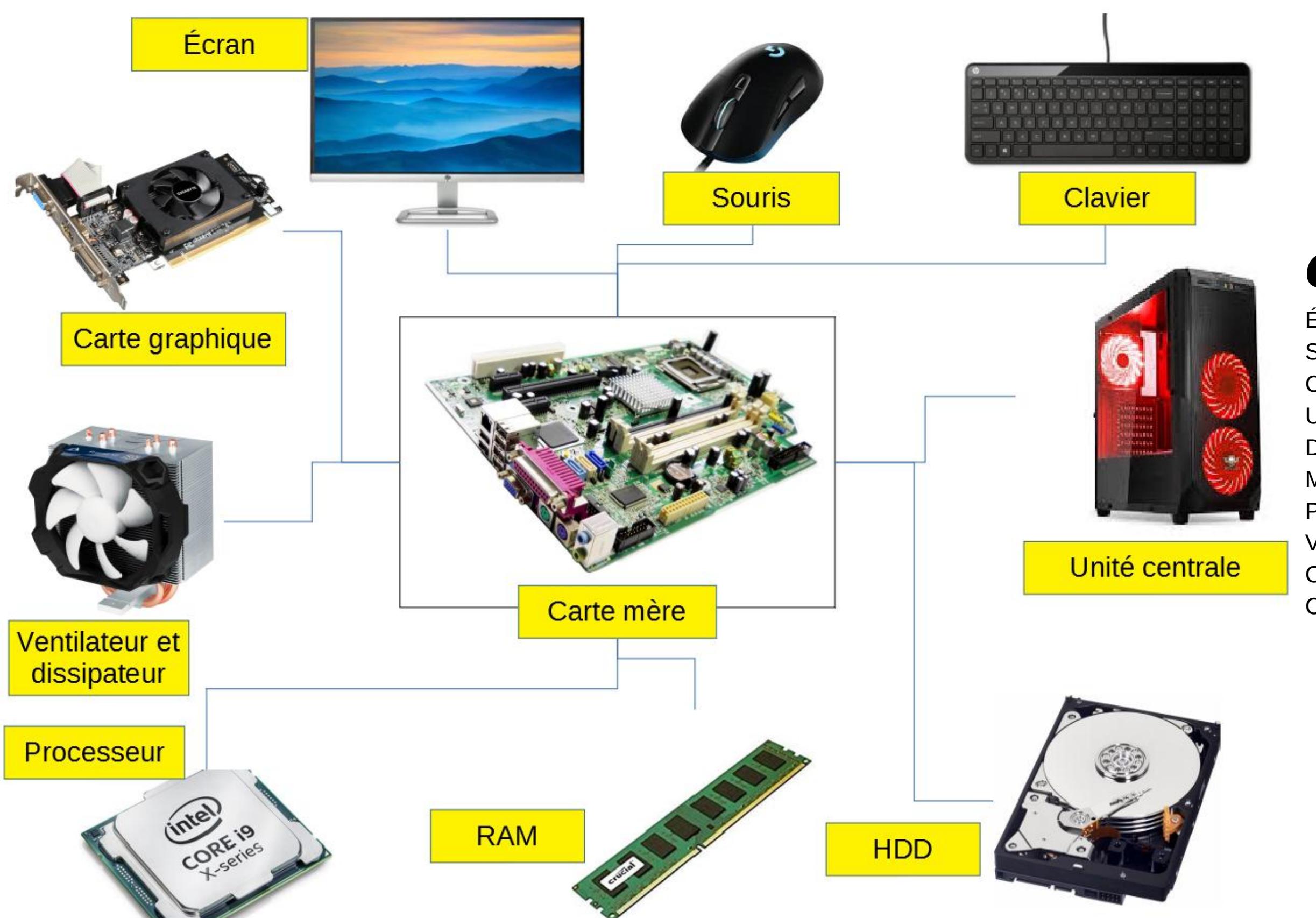


## **COMPOSANTS**

Écran  
Souris  
Clavier  
Unité centrale  
Disque Dur  
Mémoire Vive  
Processeur  
Ventilateur  
Carte Graphique  
Carte Mère

## **COMPONANTS**

Screen  
Mouse  
Keyboard  
Central Unit  
Hard Disk (HD)  
Random Access Memory  
Central Process Unit  
Fan  
Graphic Processing Unit  
Motherboard

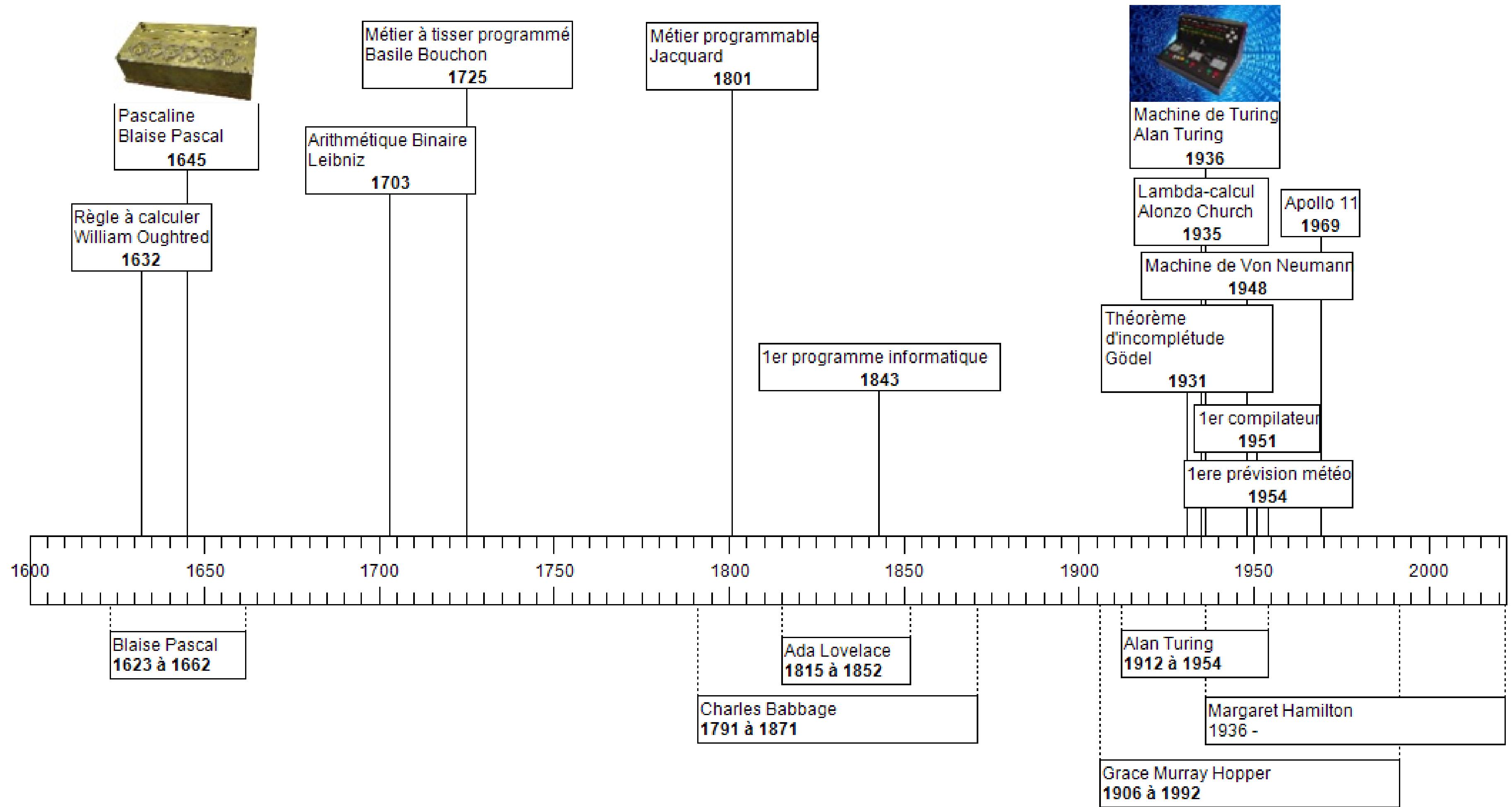


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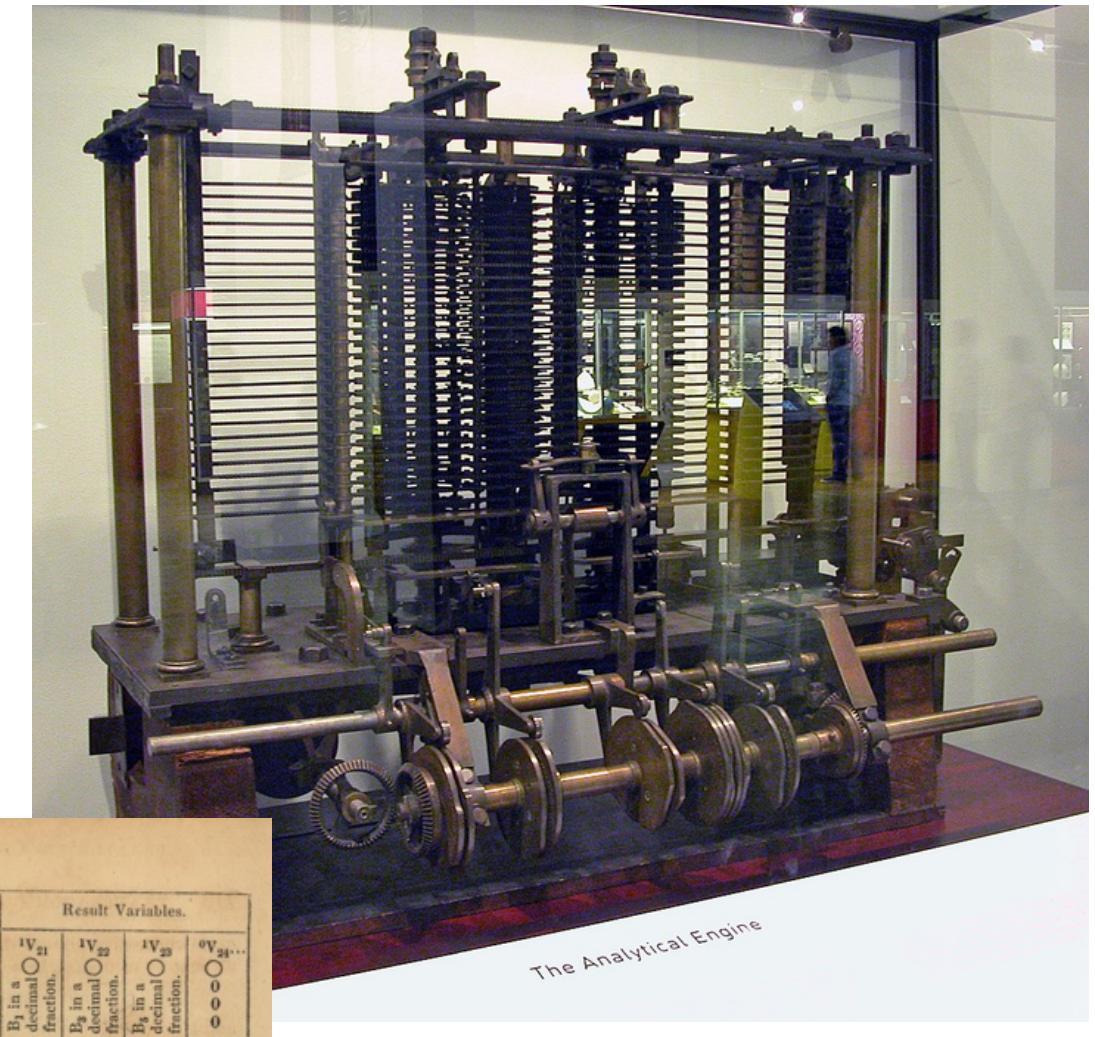


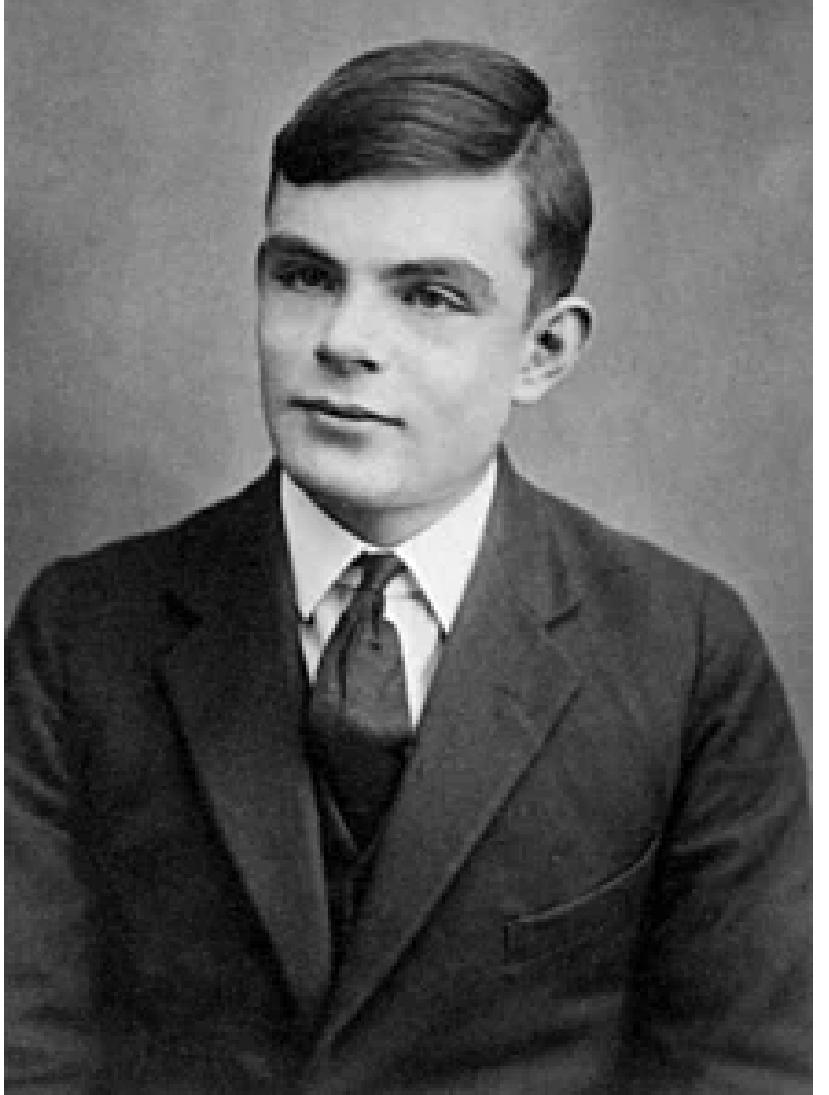
1815-1852

# Ada Lovelace

Number of Operation.	Nature of Operation.	Variables acted upon.	Variables receiving results.	Indication of change in the value on any Variable.	Statement of Results.	Data.			Working Variables.						Result Variables.					
						IV <sub>1</sub>	IV <sub>2</sub>	IV <sub>3</sub>	oV <sub>4</sub>	oV <sub>5</sub>	oV <sub>6</sub>	oV <sub>7</sub>	oV <sub>8</sub>	oV <sub>9</sub>	oV <sub>10</sub>	oV <sub>11</sub>	oV <sub>12</sub>	oV <sub>13</sub>		
1	×	IV <sub>2</sub> × IV <sub>3</sub>	IV <sub>4</sub> , IV <sub>5</sub> , IV <sub>6</sub>	{IV <sub>2</sub> = IV <sub>5</sub> IV <sub>3</sub> = IV <sub>6</sub> }	= 2 n .....	...	2	n	2 n	2 n	2 n									
2	-	IV <sub>4</sub> - IV <sub>1</sub>	IV <sub>4</sub>	{IV <sub>4</sub> = 2 V <sub>4</sub> IV <sub>1</sub> = IV <sub>3</sub> }	= 2 n - 1 .....	1	...	...	2 n - 1											
3	+	IV <sub>5</sub> + IV <sub>1</sub>	IV <sub>6</sub>	{IV <sub>5</sub> = 2 V <sub>5</sub> IV <sub>1</sub> = IV <sub>3</sub> }	= 2 n + 1 .....	1	...	...	...	2 n + 1										
4	+	2 V <sub>4</sub> + 2 V <sub>4</sub>	IV <sub>11</sub>	{2 V <sub>4</sub> = 0 V <sub>4</sub> 2 V <sub>4</sub> = 0 V <sub>4</sub> }	= $\frac{2 n - 1}{2 n + 1}$ .....	...	...	...	0	0	...	...	...	...	...					
5	÷	IV <sub>11</sub> + IV <sub>2</sub>	2 V <sub>11</sub>	{IV <sub>11</sub> = 2 V <sub>11</sub> IV <sub>2</sub> = IV <sub>2</sub> }	= $\frac{1}{2} \cdot \frac{2 n - 1}{2 n + 1}$ .....	...	2	...	...	...	...	...	...	...						
6	-	oV <sub>13</sub> - 2 V <sub>11</sub>	IV <sub>13</sub>	{2 V <sub>11</sub> = 0 V <sub>11</sub> oV <sub>13</sub> = IV <sub>13</sub> }	= $\frac{1}{2} \cdot \frac{2 n - 1}{2 n + 1} = A_0$ .....	...	...	...	...	...	...	...	...	...	0	.....	- $\frac{1}{2} \cdot \frac{2 n - 1}{2 n + 1} = A_0$			
7	-	IV <sub>3</sub> - IV <sub>1</sub>	IV <sub>10</sub>	{IV <sub>3</sub> = IV <sub>9</sub> IV <sub>1</sub> = IV <sub>1</sub> }	= n - 1 (= 3) .....	1	...	n	...	...	...	...	...	...	...	n - 1				
8	+	IV <sub>2</sub> + oV <sub>7</sub>	IV <sub>7</sub>	{IV <sub>2</sub> = IV <sub>5</sub> oV <sub>7</sub> = IV <sub>7</sub> }	= 2 + 0 = 2 .....	...	2	...	...	...	...	2								
9	+	IV <sub>6</sub> + IV <sub>7</sub>	IV <sub>11</sub>	{IV <sub>6</sub> = IV <sub>9</sub> IV <sub>7</sub> = 3 V <sub>11</sub> }	= $\frac{2 n}{2} = A_1$ .....	...	...	...	...	2 n	2	...	...	...						
10	×	IV <sub>21</sub> × IV <sub>11</sub>	IV <sub>12</sub>	{IV <sub>21</sub> = IV <sub>21</sub> IV <sub>11</sub> = 3 V <sub>11</sub> }	= B <sub>1</sub> · $\frac{2 n}{2} = B_1 A_1$ .....	...	...	...	...	...	...	...	...	...						
11	+	IV <sub>12</sub> + IV <sub>13</sub>	IV <sub>13</sub>	{IV <sub>12</sub> = 0 V <sub>12</sub> IV <sub>13</sub> = 2 V <sub>13</sub> }	= $-\frac{1}{2} \cdot \frac{2 n - 1}{2 n + 1} + B_1 \cdot \frac{2 n}{2}$ .....	...	...	...	...	...	...	...	...	...	0	.....	{ - $\frac{1}{2} \cdot \frac{2 n - 1}{2 n + 1} + B_1 \cdot \frac{2 n}{2} } = B_1$			
12	-	IV <sub>10</sub> - IV <sub>1</sub>	IV <sub>10</sub>	{IV <sub>10</sub> = 2 V <sub>10</sub> IV <sub>1</sub> = IV <sub>1</sub> }	= n - 2 (= 2) .....	1	...	...	...	...	...	...	...	...	n - 2					
13	-	IV <sub>6</sub> - IV <sub>1</sub>	2 V <sub>6</sub>	{IV <sub>6</sub> = 2 V <sub>6</sub> IV <sub>1</sub> = IV <sub>1</sub> }	= 2 n - 1 .....	1	...	...	...	2 n - 1										
14	+	IV <sub>1</sub> + IV <sub>7</sub>	IV <sub>7</sub>	{IV <sub>1</sub> = IV <sub>1</sub> IV <sub>7</sub> = 2 V <sub>7</sub> }	= 2 + 1 = 3 .....	1	...	...	...	...	3									
15	-	2 V <sub>6</sub> + 2 V <sub>7</sub>	IV <sub>8</sub>	{2 V <sub>6</sub> = 2 V <sub>6</sub> 2 V <sub>7</sub> = 2 V <sub>7</sub> }	= $\frac{2 n - 1}{3}$ .....	...	...	...	2 n - 1	3	$\frac{2 n - 1}{3}$									
16	×	IV <sub>8</sub> × IV <sub>11</sub>	IV <sub>11</sub>	{IV <sub>8</sub> = 0 V <sub>8</sub> IV <sub>11</sub> = 3 V <sub>11</sub> }	= $\frac{2 n}{2} \cdot \frac{2 n - 1}{3}$ .....	...	...	...	...	...	0	...	...							
17	-	2 V <sub>6</sub> - IV <sub>1</sub>	IV <sub>6</sub>	{2 V <sub>6</sub> = 3 V <sub>6</sub> IV <sub>1</sub> = IV <sub>1</sub> }	= 2 n - 2 .....	1	...	...	...	2 n - 2										
18	+	IV <sub>1</sub> + 3 V <sub>7</sub>	IV <sub>7</sub>	{IV <sub>1</sub> = IV <sub>1</sub> 3 V <sub>7</sub> = 3 V <sub>7</sub> }	= 3 + 1 = 4 .....	1	...	...	...	4										
19	+	3 V <sub>6</sub> - 3 V <sub>7</sub>	IV <sub>9</sub>	{3 V <sub>6</sub> = 3 V <sub>6</sub> 3 V <sub>7</sub> = 3 V <sub>7</sub> }	= $\frac{2 n - 2}{4}$ .....	...	...	...	2 n - 2	4	$\frac{2 n - 2}{4}$									
20	×	IV <sub>9</sub> × IV <sub>11</sub>	IV <sub>11</sub>	{IV <sub>9</sub> = 0 V <sub>9</sub> IV <sub>11</sub> = 3 V <sub>11</sub> }	= $\frac{2 n}{2} \cdot \frac{2 n - 1}{3} \cdot \frac{2 n - 2}{4} = A_3$ .....	...	...	...	...	...	0	...								
21	×	IV <sub>22</sub> × IV <sub>11</sub>	IV <sub>12</sub>	{IV <sub>22</sub> = 1 V <sub>22</sub> IV <sub>11</sub> = 3 V <sub>11</sub> }	= B <sub>2</sub> · $\frac{2 n}{2} \cdot \frac{2 n - 1}{3} \cdot \frac{2 n - 2}{3} = B_2 A_3$ .....	...	...	...	...	...	...	...	...	0	B <sub>2</sub> A <sub>3</sub>	.....	B <sub>2</sub>			
22	+	2 V <sub>12</sub> + 2 V <sub>13</sub>	IV <sub>13</sub>	{2 V <sub>12</sub> = 2 V <sub>12</sub> 2 V <sub>13</sub> = 3 V <sub>13</sub> }	= A <sub>0</sub> + B <sub>1</sub> A <sub>1</sub> + B <sub>2</sub> A <sub>2</sub> .....	...	...	...	...	...	...	...	...	...	0	.....	{ A <sub>0</sub> + B <sub>1</sub> A <sub>1</sub> + B <sub>2</sub> A <sub>2</sub> }			
23	-	2 V <sub>10</sub> - IV <sub>1</sub>	IV <sub>10</sub>	{2 V <sub>10</sub> = 3 V <sub>10</sub> IV <sub>1</sub> = IV <sub>1</sub> }	= n - 3 (= 1) .....	1	...	...	...	...	...	...	...	...	n - 3					
24	+	4 V <sub>13</sub> + 6 V <sub>21</sub>	IV <sub>24</sub>	{4 V <sub>13</sub> = 0 V <sub>13</sub> 6 V <sub>21</sub> = IV <sub>21</sub> }	= B <sub>7</sub> .....	...	...	...	...	...	...	...	...	...					B <sub>7</sub>	

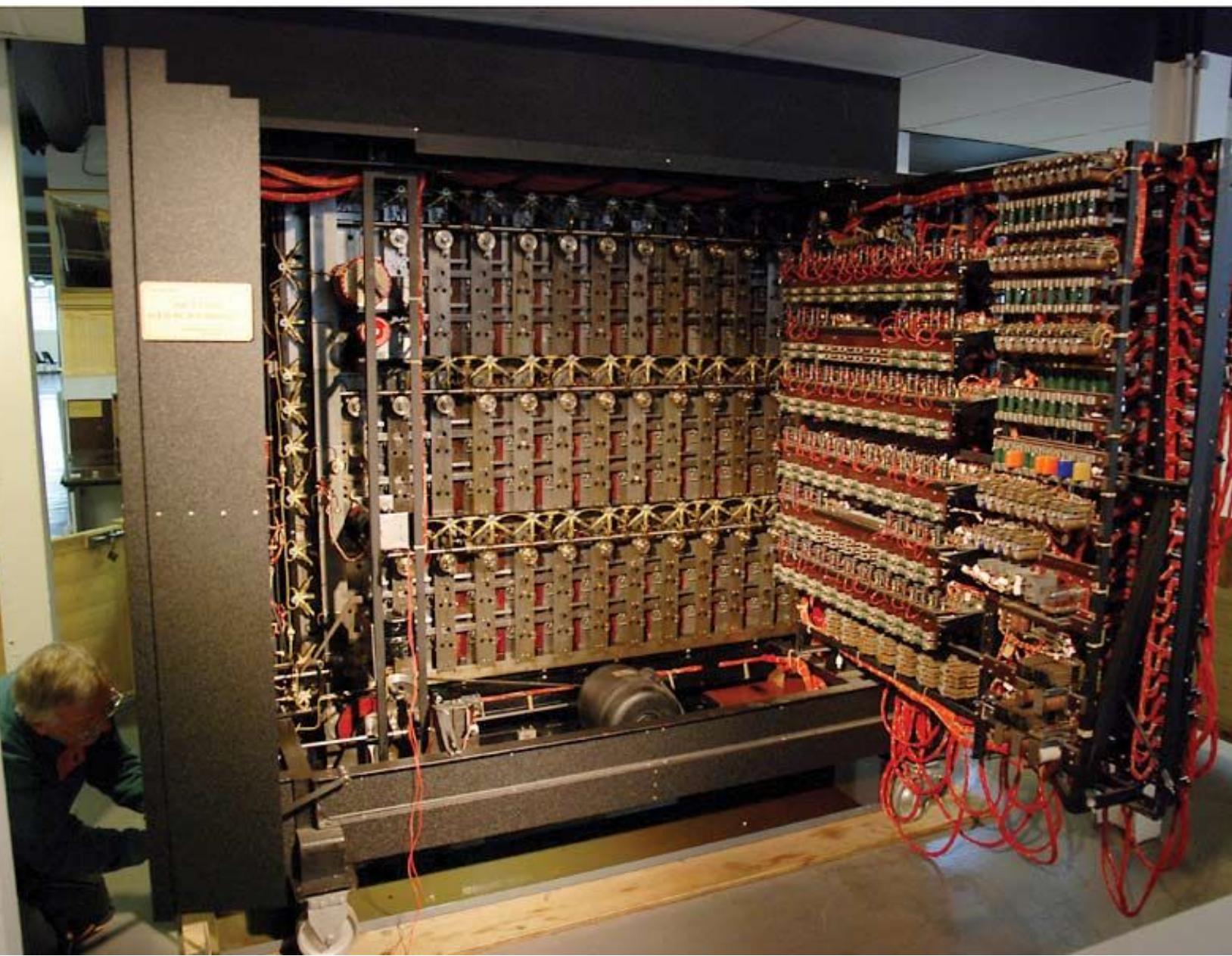
Here follows a repetition of Operations thirteen to twenty-three.





1912-1954

# Alan Turing

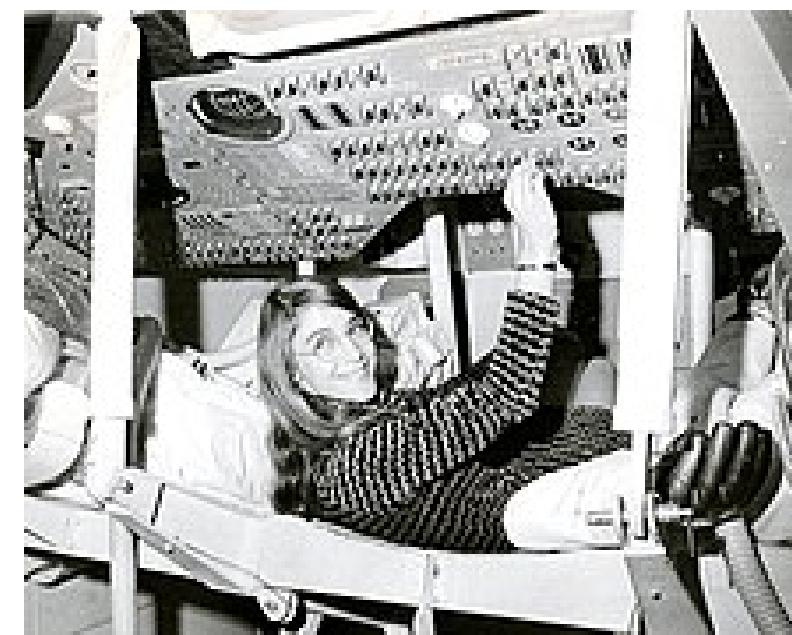


# Grace Hooper



1er Ordinateur  
1er Compilateur  
1er langage de programmation

# Margaret Hamilton



Programme Apollo 11