## Binary Representations for Integers

In the early days of computing, designers made computers express numbers using unsigned binary. And they were content...

Until there were negative numbers.


To include negative numbers, designers came up with sign magnitude.
That took care of the negative numbers...


Plus, this introduced positive and negative zero.
Then designers created one's complement.
Now computers only had to count in one direction...


But there were still two zeroes!


Finally, designers developed two's complement.
Now, there was only one zero...


And they were content.


Ketrma Yim

