

Use of Binary in Computing

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Types

```
int x = 65;
System.out.println(x);
// 65
System.out.println((char) x);
// A
System.out.println(Integer.toBinaryString(x));
// 1000001
System.out.println((float) x);
// 65.0
int y = Float.floatToIntBits((float) x);
System.out.println(Integer.toBinaryString(y));
// 10000101000001000000000000000000
```

What every computer scientist should know about floating-point arithmetic, 2023. URL https://docs.oracle.com/cd/E19957-01/806-3568/ncg_goldberg.html

Fabien Sanglard. Floating point visually explained, 2023. URL https://fabiansanglard.net/floating_point_visually_explained/

Integer Addition

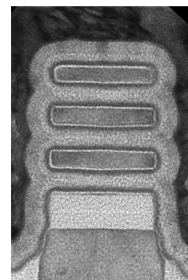
	55	110111
+	33	100001
<hr/>		
	88	1011000

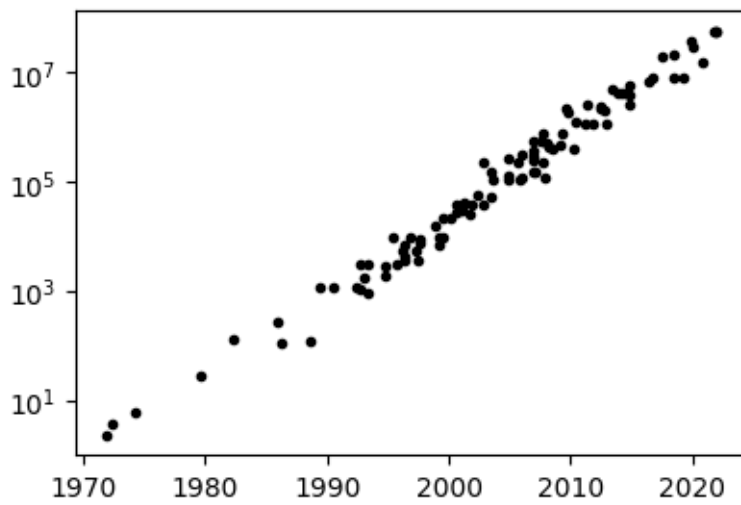
Integer Multiply by Two

	55	110111
×	2	10
<hr/>		
		000000
+		1101110
<hr/>		
	110	1101110

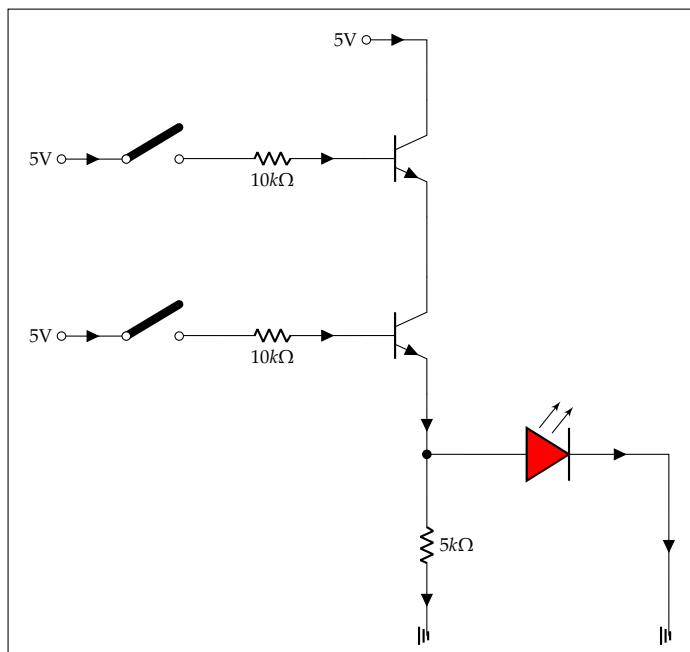
Nanometers

nm	Nanometre	0.000000001 metres
	Nanometre	10^{-9} metres
pm	Picometre	10^{-12} metres
	Atomic Radius of Silicon	111pm



Moore's Law

karlrupp/microprocessor-trend-data:
Data repository for my blog series
on microprocessor trend data., 2023.
URL <https://github.com/karlrupp/microprocessor-trend-data>

From Physical to Logical

Designing an AND gate using transistors, 2023. URL <https://circuitdigest.com/electronic-circuits/designing-and-gate-using-transistors>

