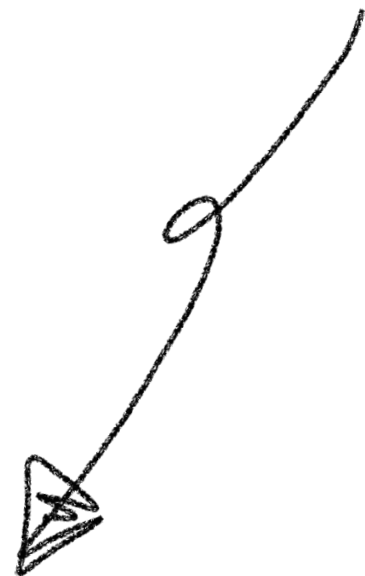


JavaScript on Microcontrollers



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I am Niels Leenheer



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I'm from The Netherlands





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I tweet at @html5test



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I  **the web**

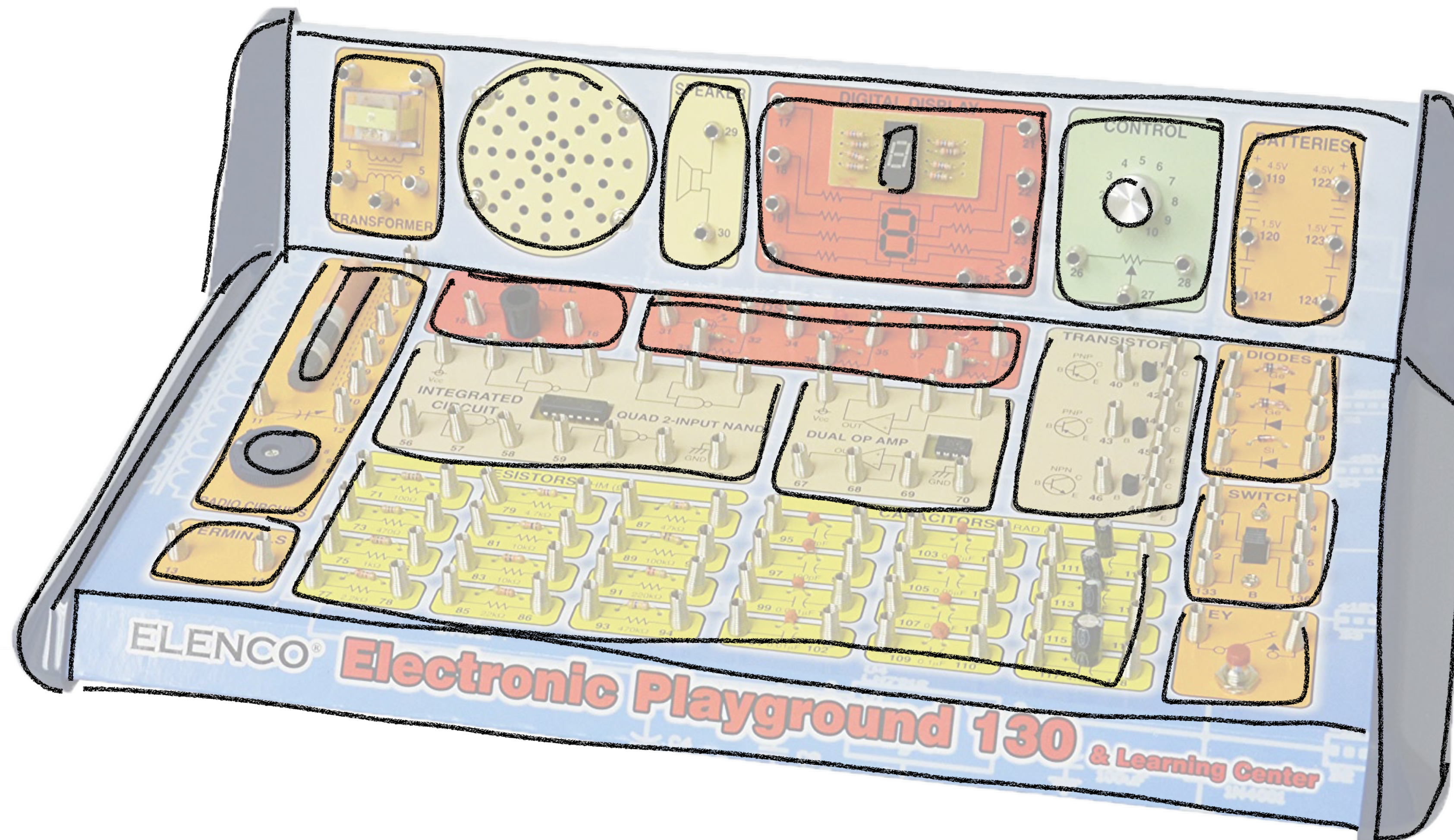


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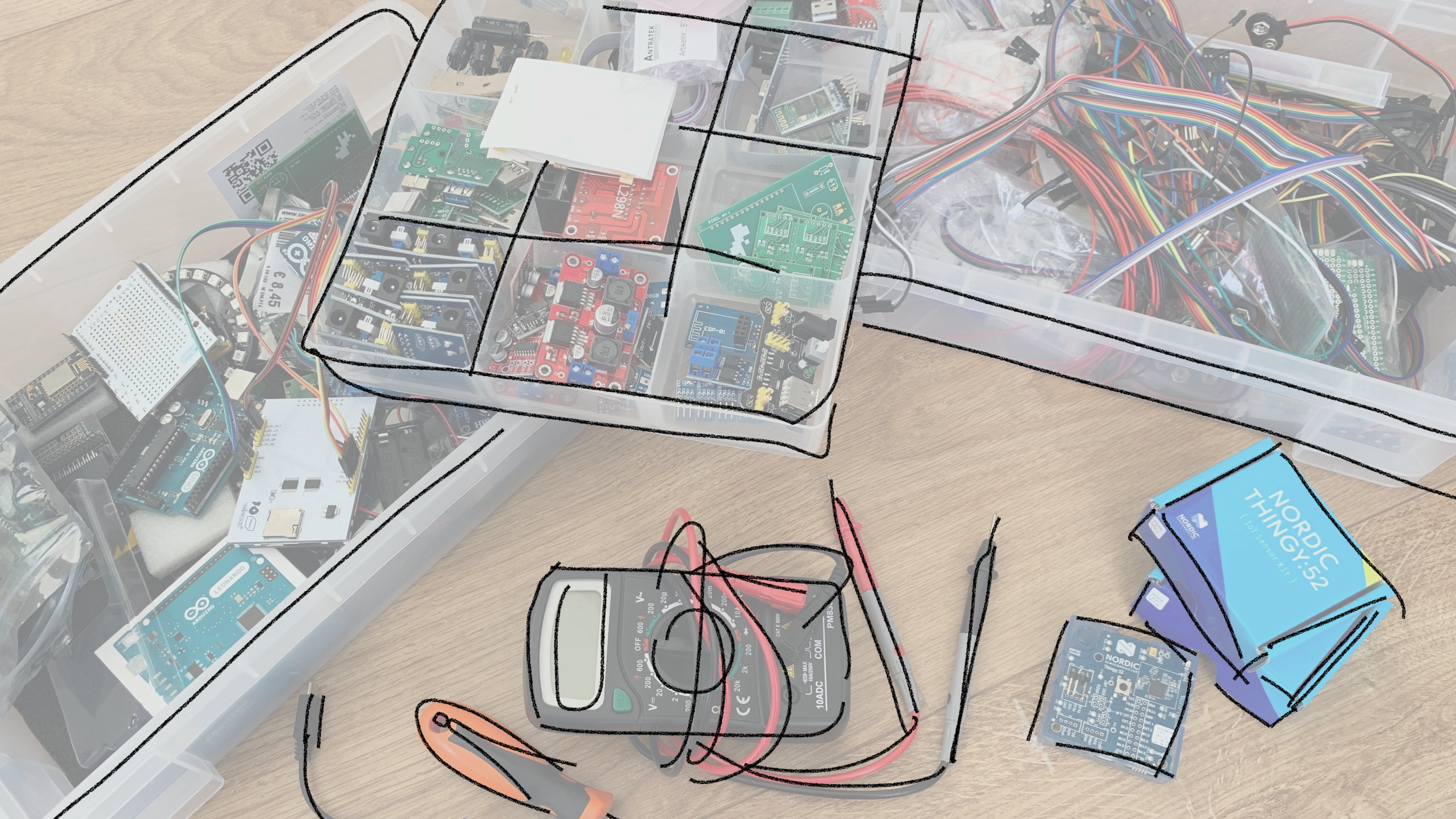
I  **electronics**



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**Why should I
care about this?**



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electronics + web = IoT



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JavaScript on Microcontrollers



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but . . .

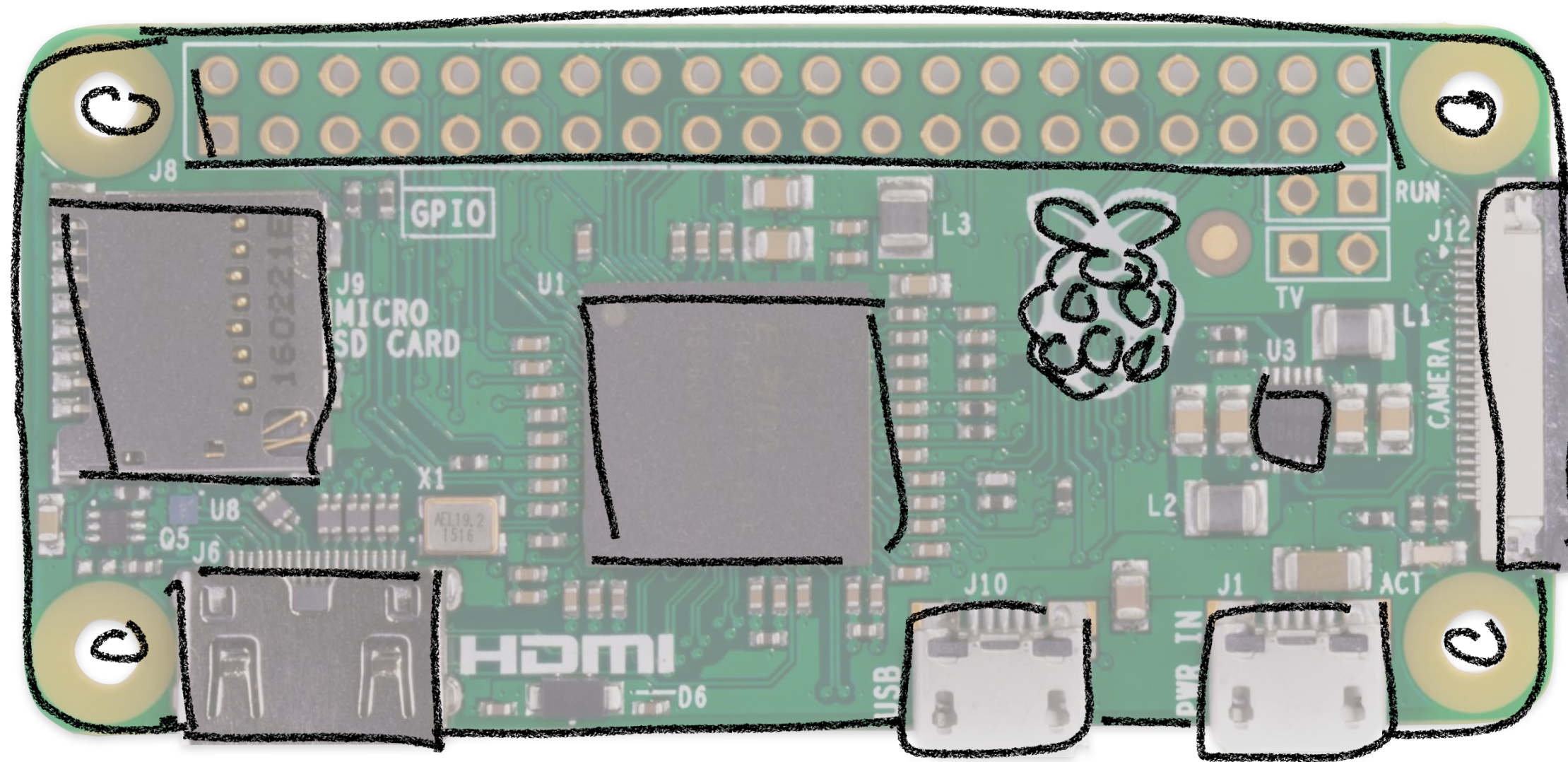


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Microcontrollers are ~~\$1000~~ \$10000



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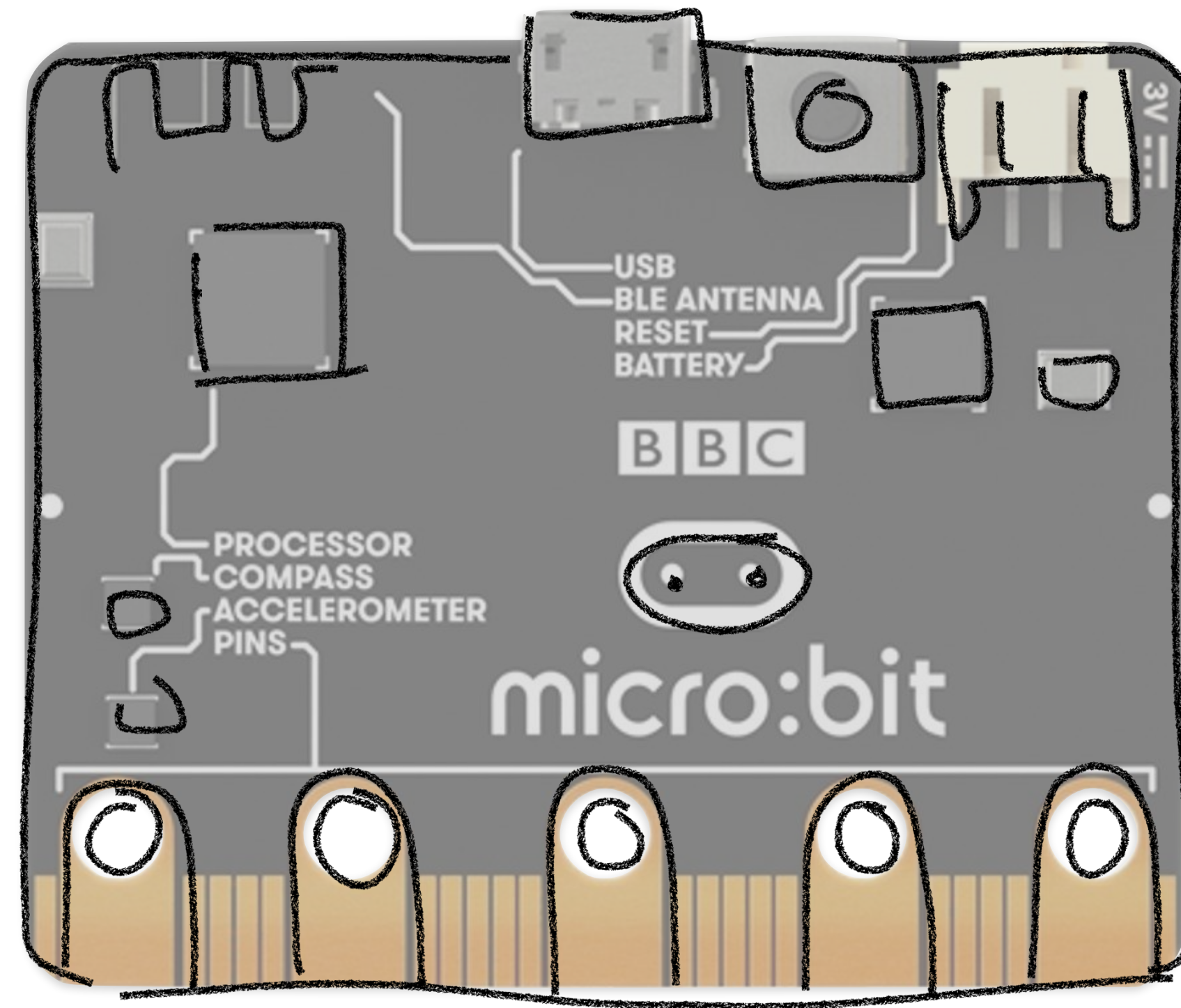


Raspberry Pi Zero W

1 GHz CPU and 512MB RAM



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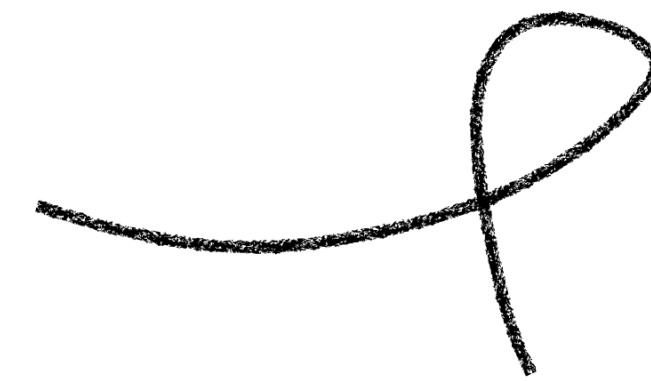
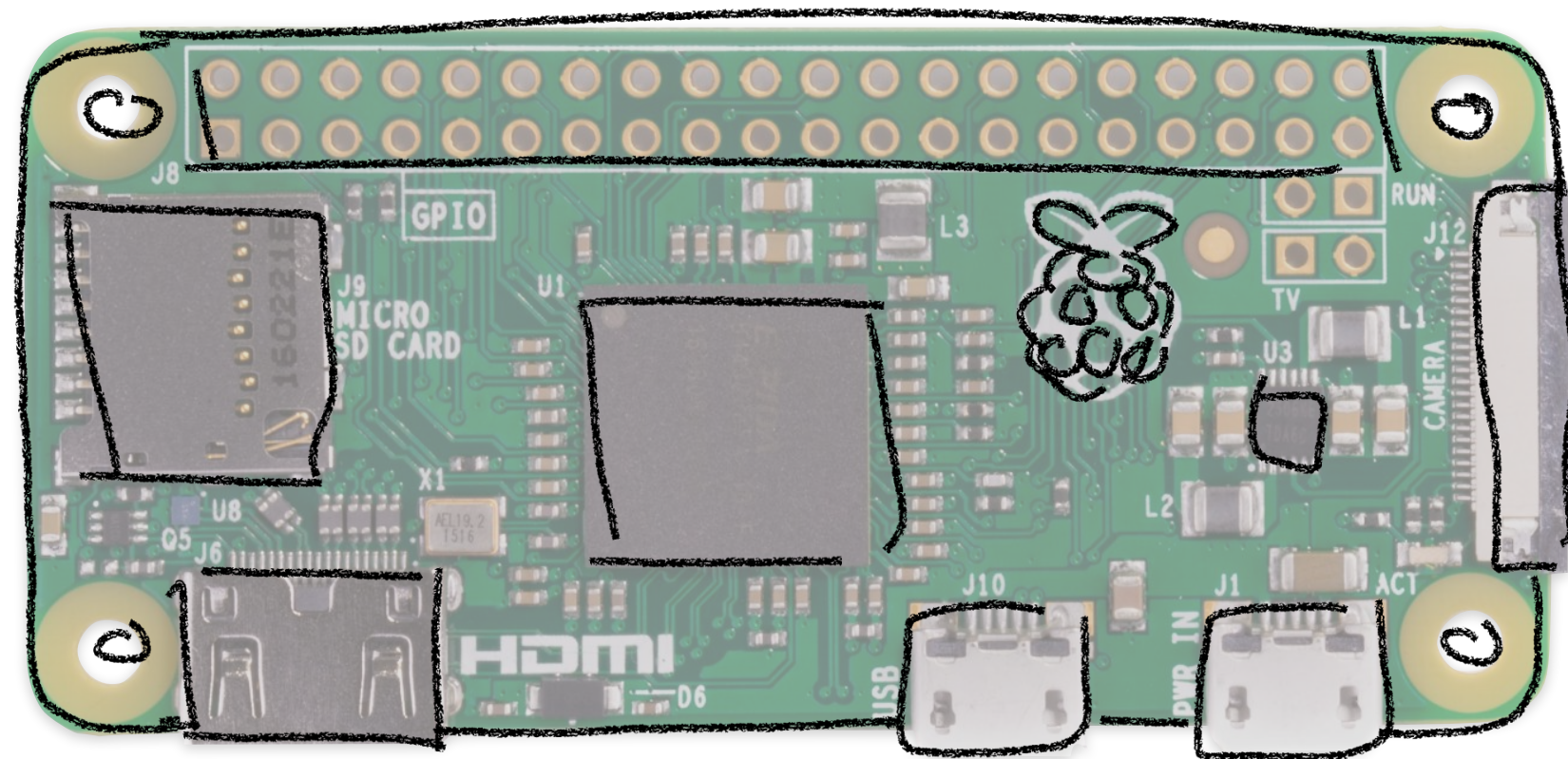


micro:bit

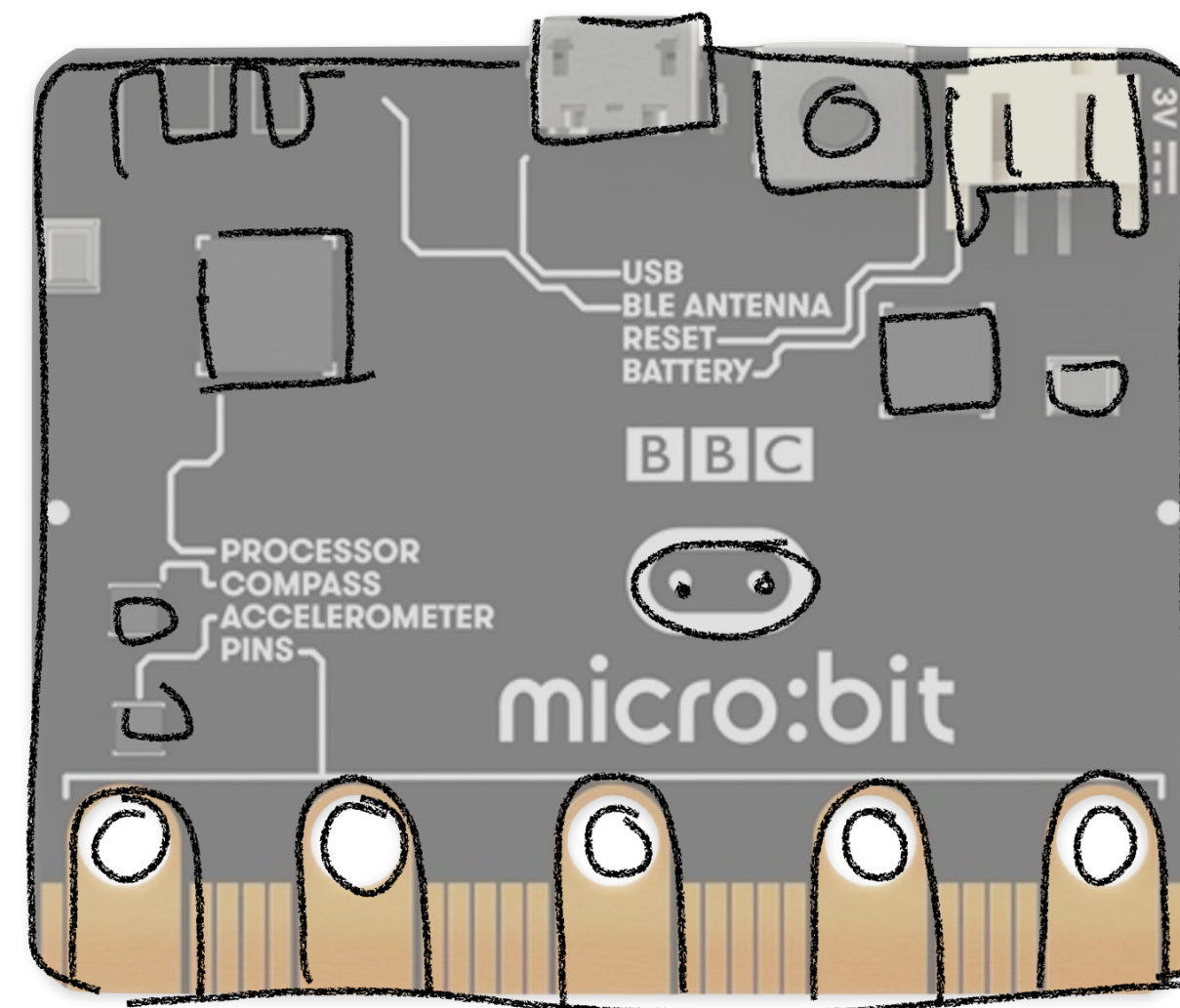
16 MHz CPU and 16KB RAM



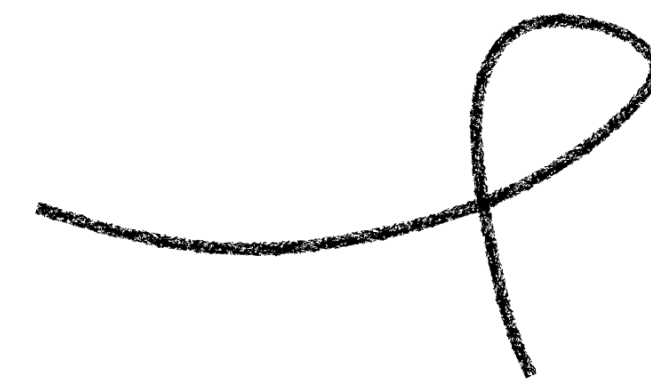
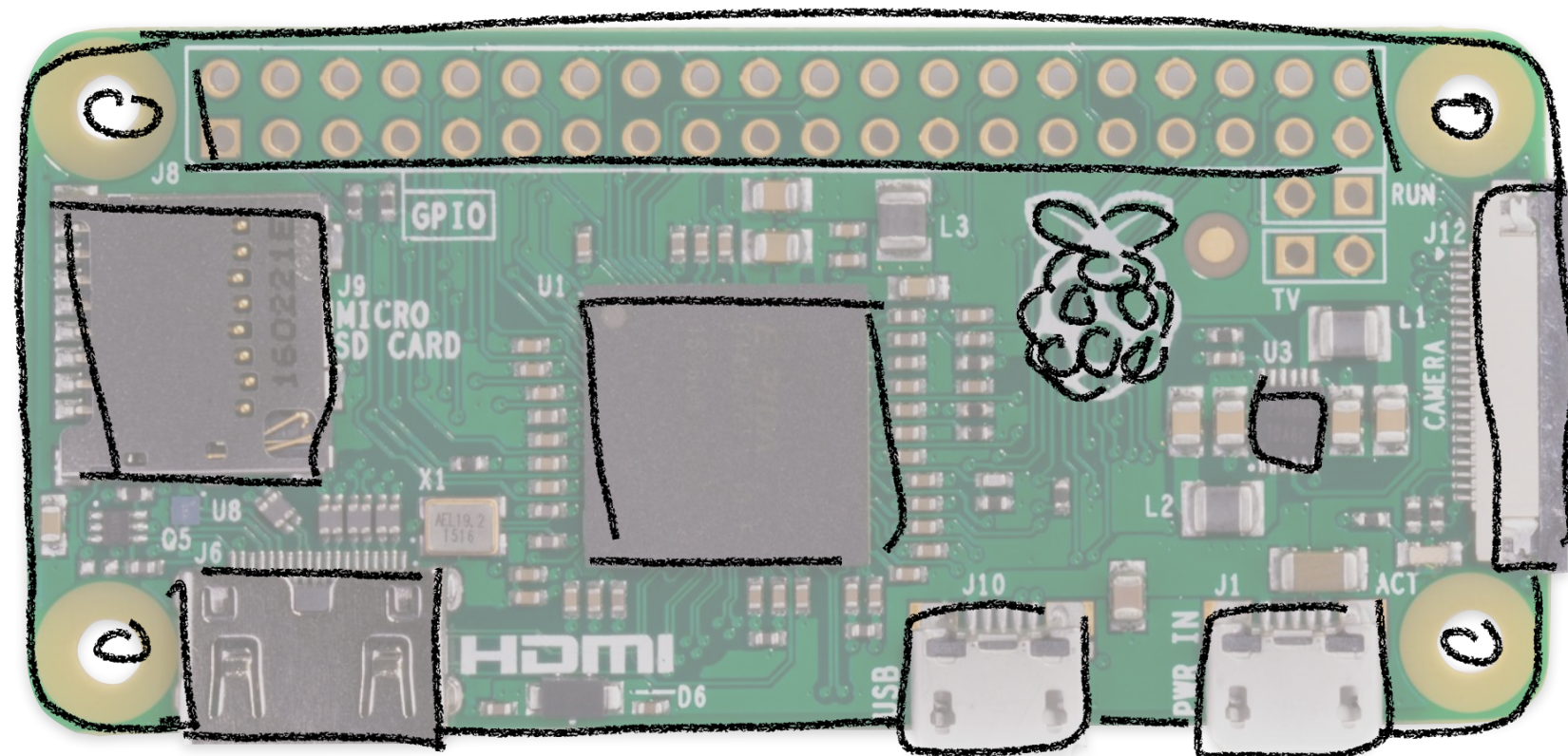
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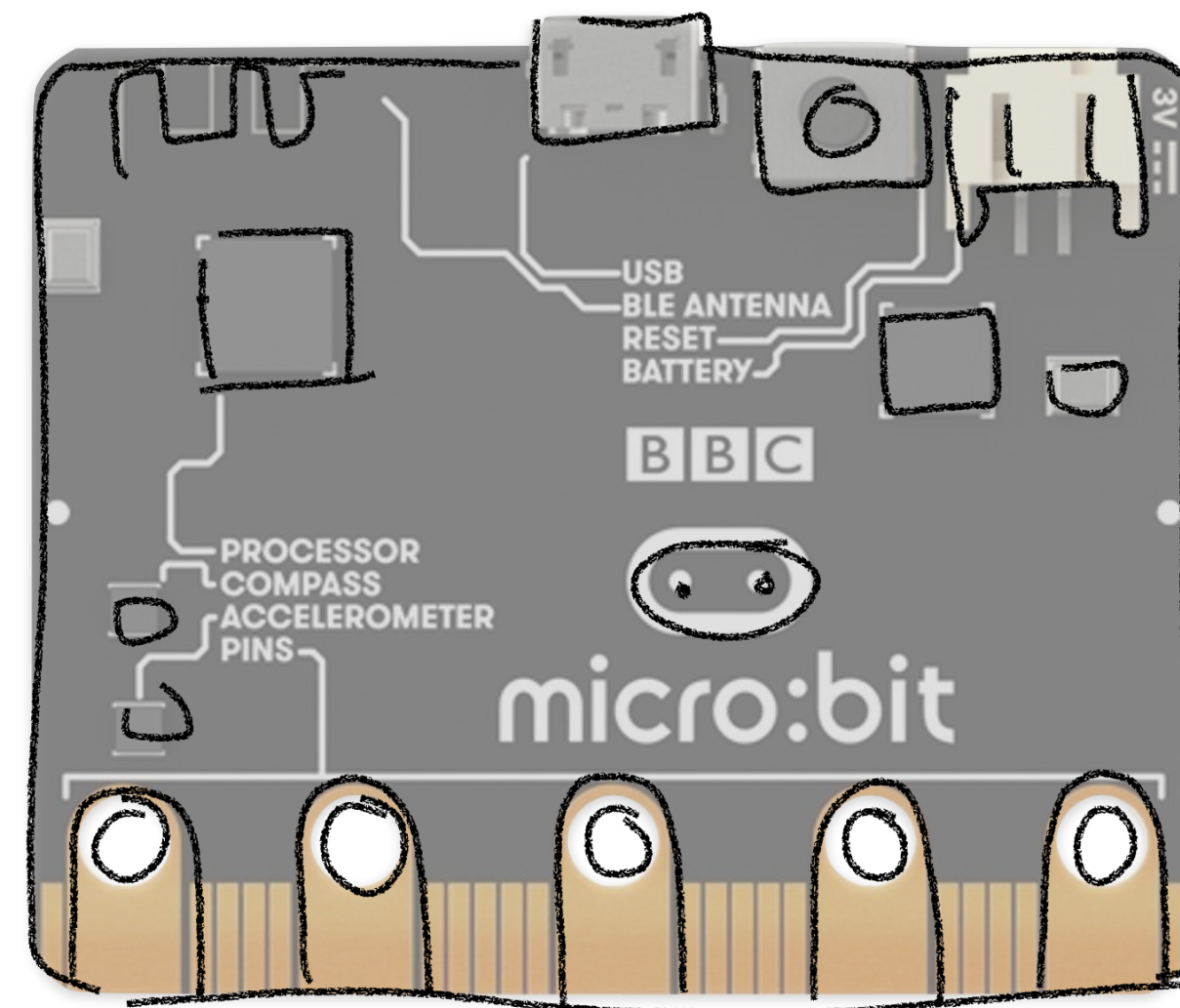
60 x faster



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30.000 x memory



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“

**JavaScript on
microcontrollers?
Are you crazy?**

Me – two years ago



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**Microcontrollers are
very power efficient.**



**Microcontrollers only
need to be fast enough
to solve the problem.**



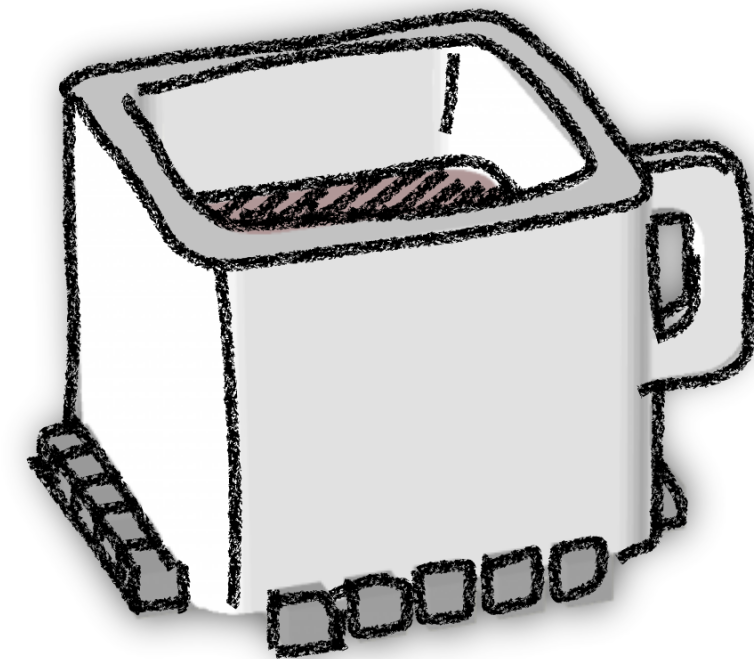
**Microcontrollers do not
have ~~an~~ operating system.**



how?



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Espruino



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**Espruino is a JavaScript
interpreter for
microcontrollers.**

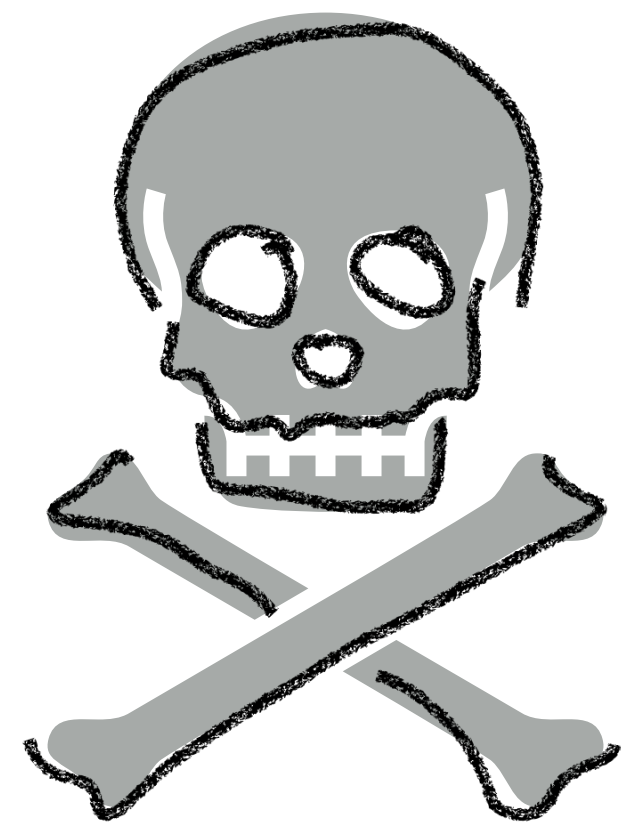


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demo



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Experimental technology



Setting low expectations

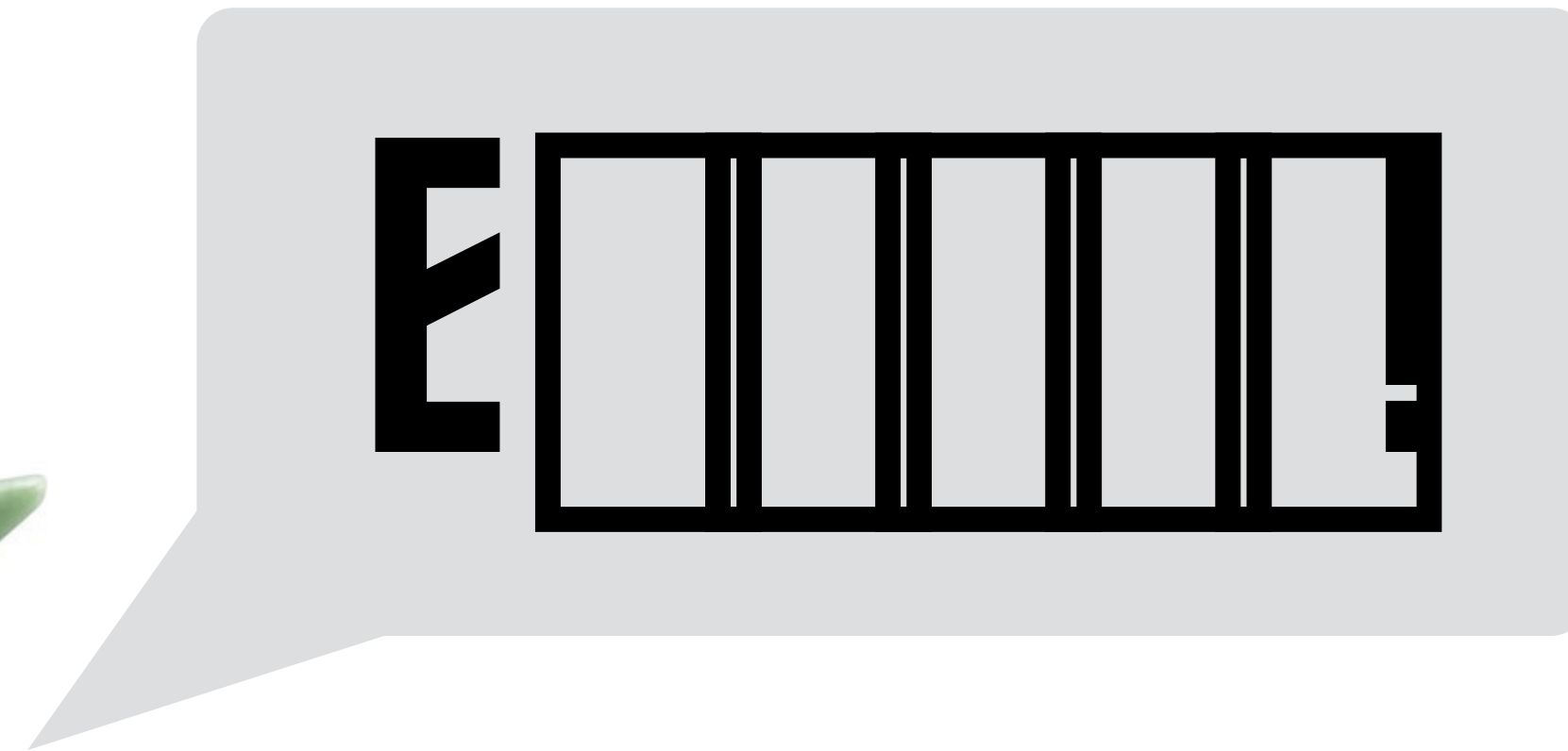


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*fun with
bluetooth*

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