Source: Burst

Computer Vision

> ...how computers can be made to gain high-level understanding from digital images or videos.

Content

- Relevance for Interaction Design
- CV (*Input - Processing - Output*)
- Projects 🎨

“ Why is it relevant for spatial interaction? 🤷 ”

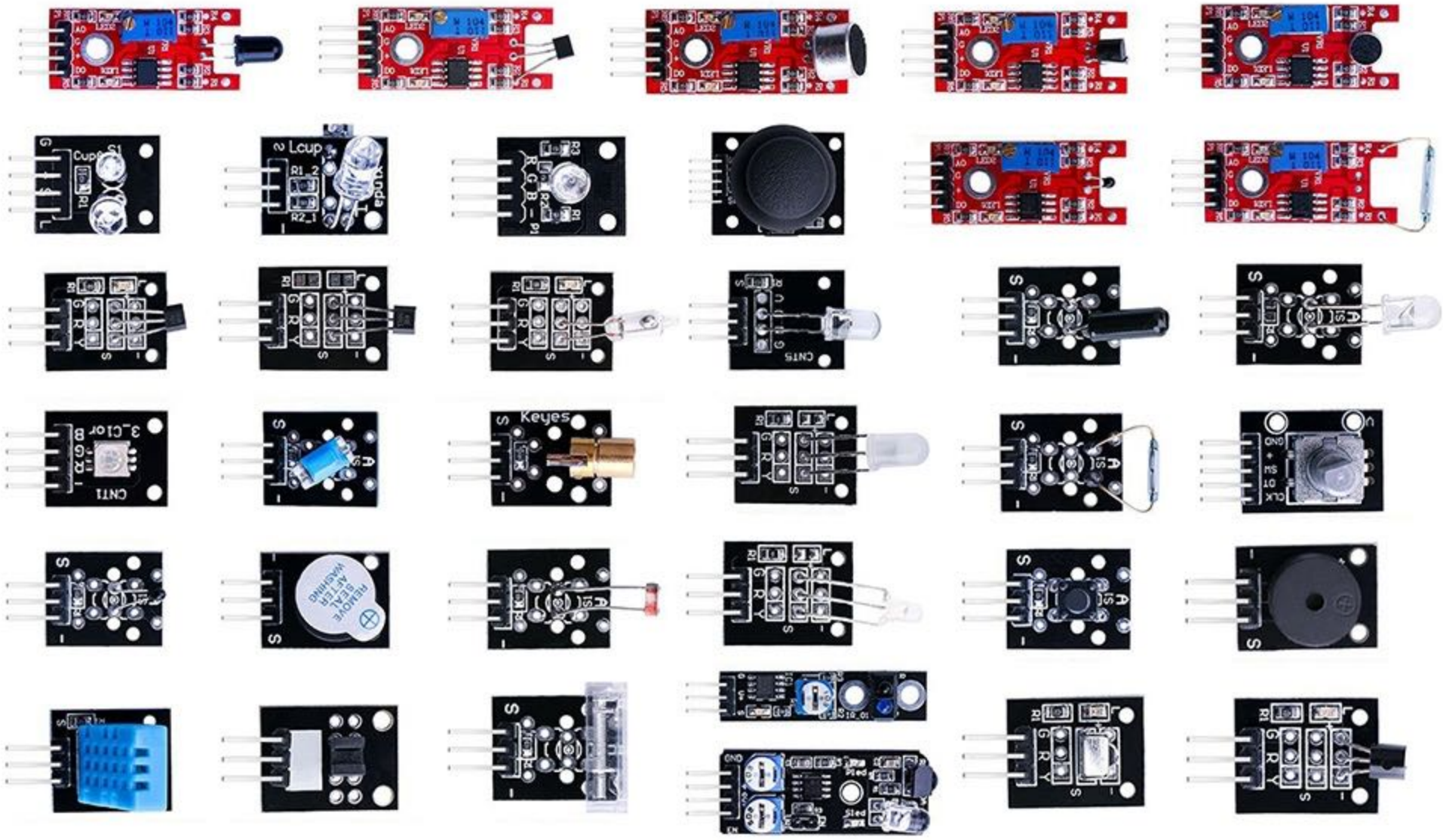
Source: Ron McClenny

“ Why is it relevant for spatial interaction? ”

- Automatic analysis / action
- Contextual information
- Understanding of 3d space in 2d

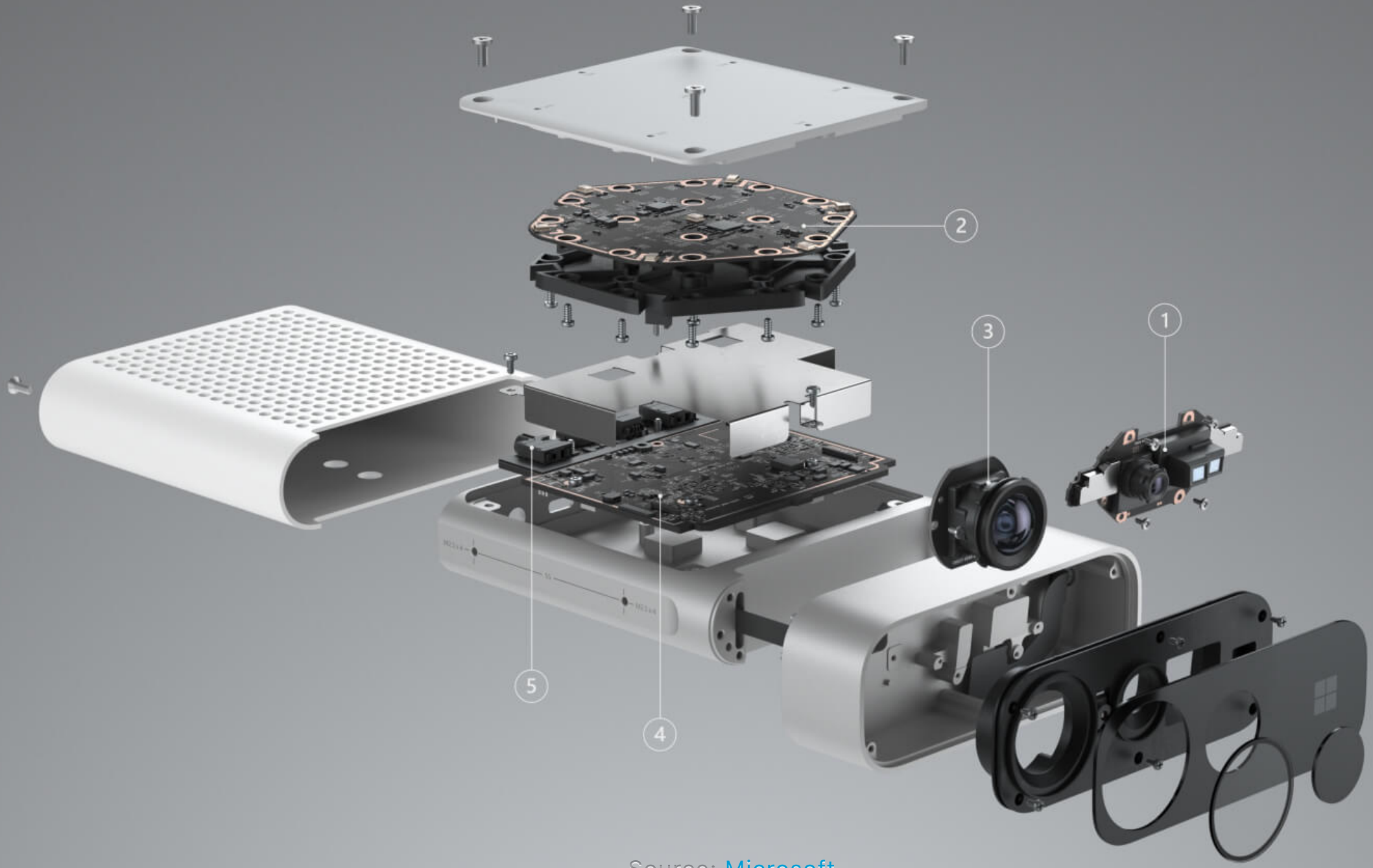
“A glimpse behind the curtain.”

Source: @thisisengineering

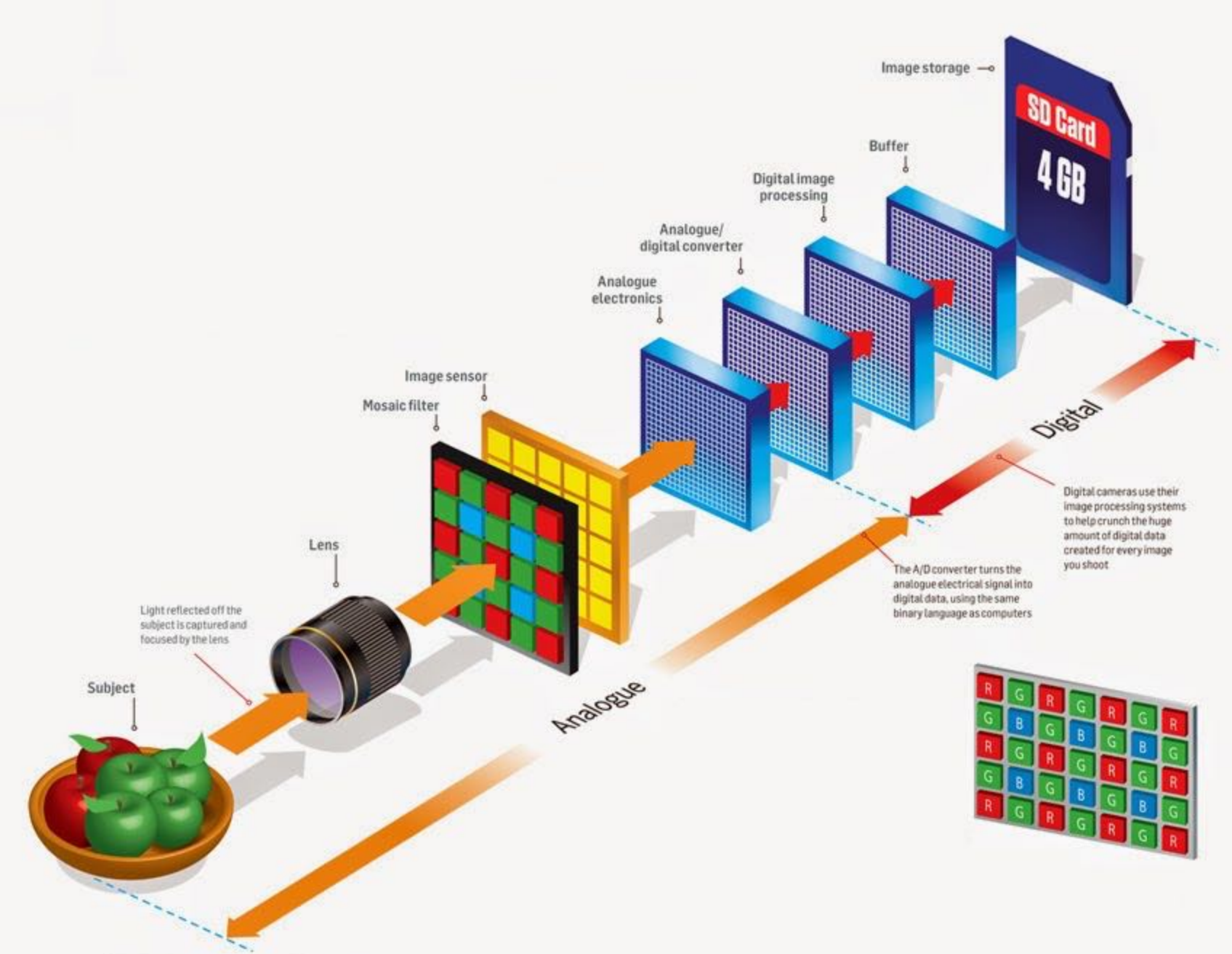


Source: Elecrow

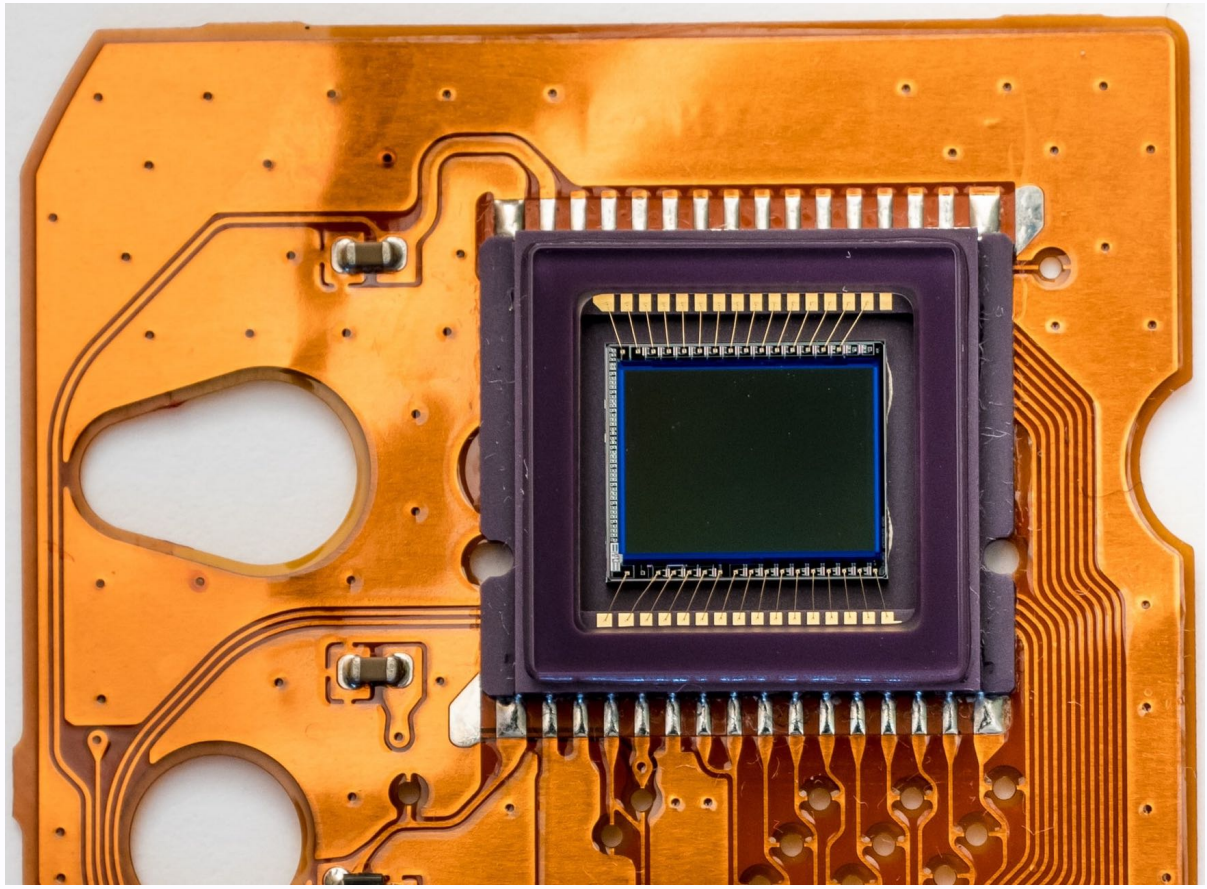
Source: Julius Drost



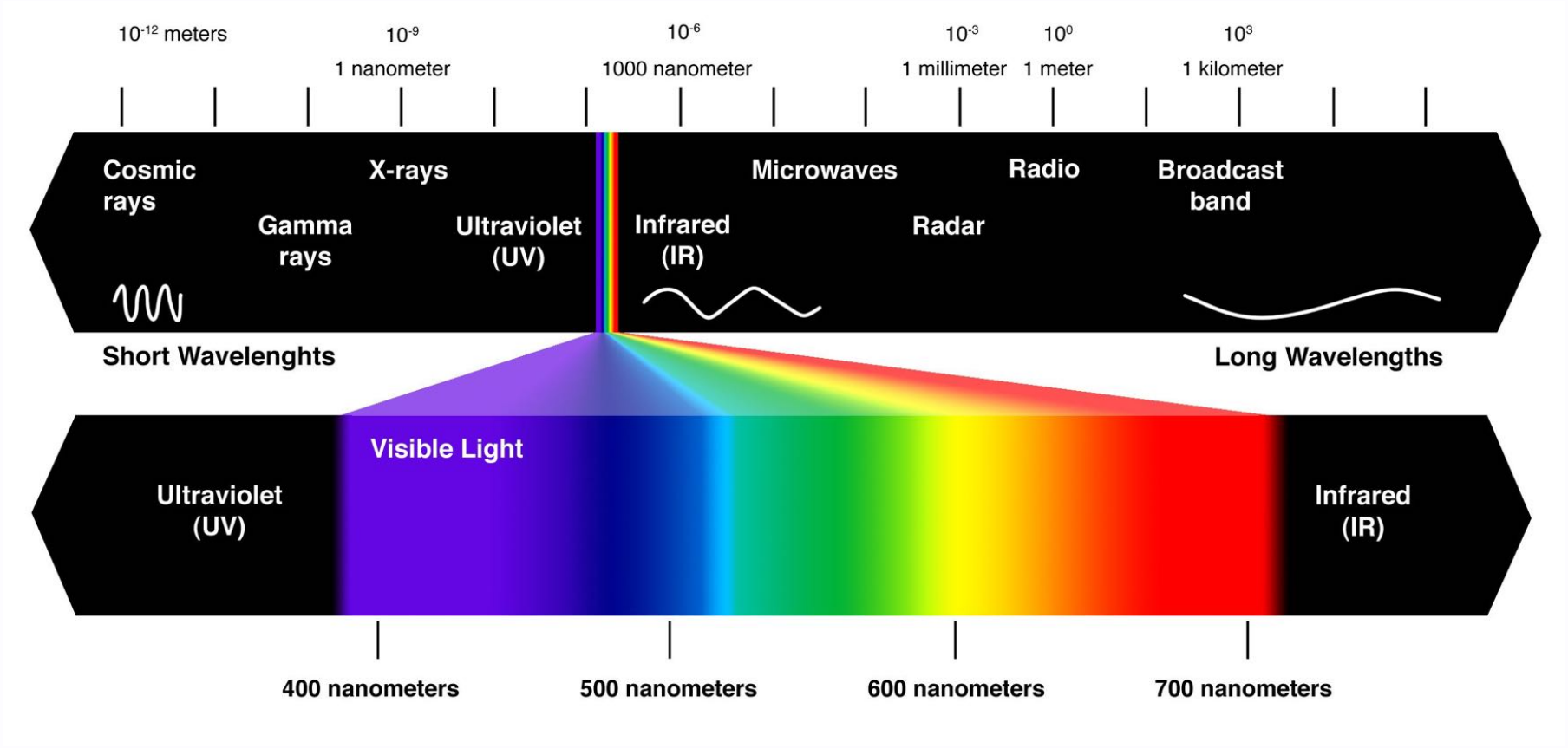
Source: Microsoft



Source: myscienceschool.org



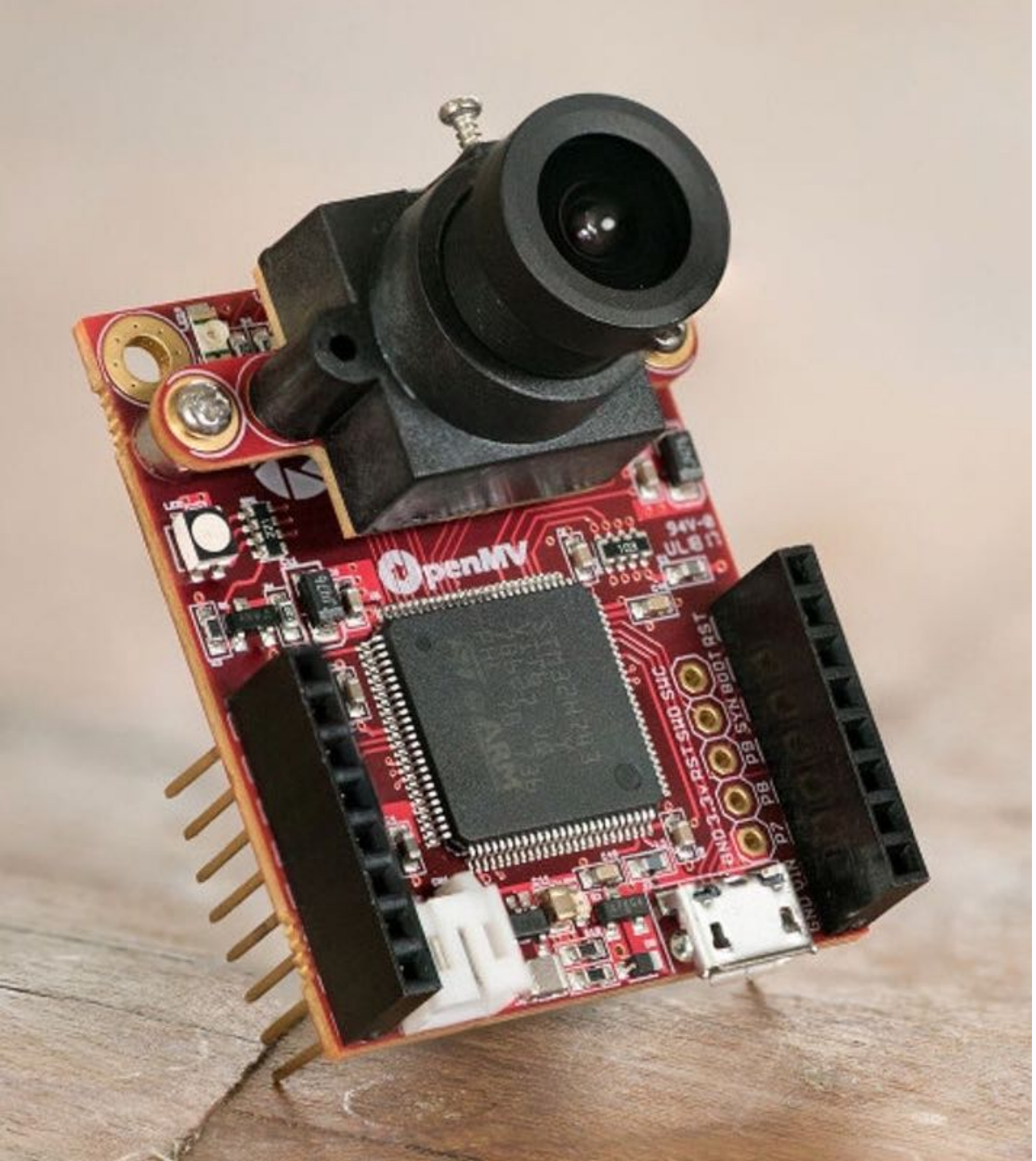
Source: Dan-Cristian Pădureț



Source: once.lighting

Source: V Srinivasan

Source: Cara Phillips



OpenMV

- Edge Computing
- Camera / Image

Source: OpenMV

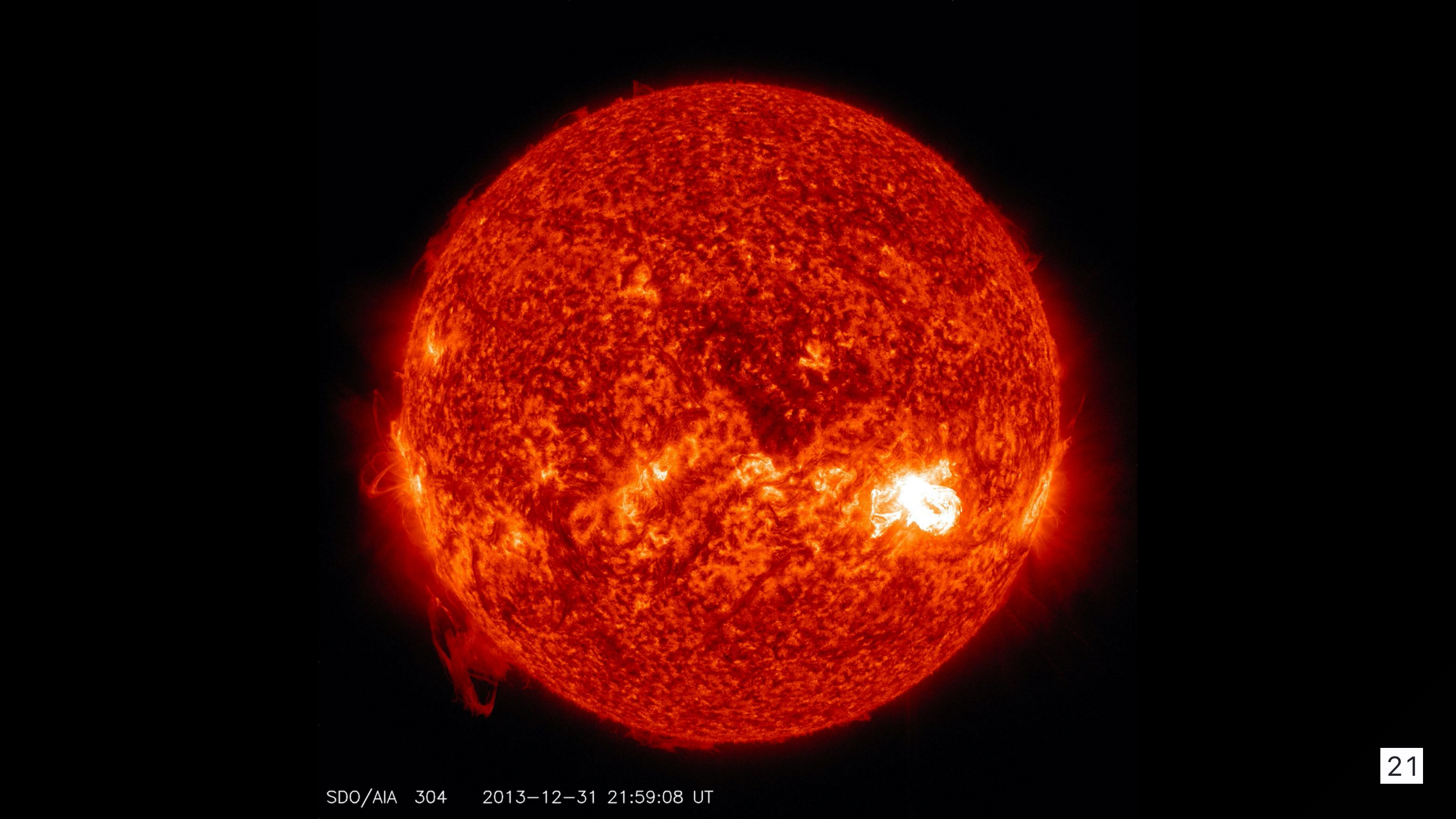
Source: Facebook

“ Where is computer vision used? ”

“Where is computer vision used?

Everywhere.”

Science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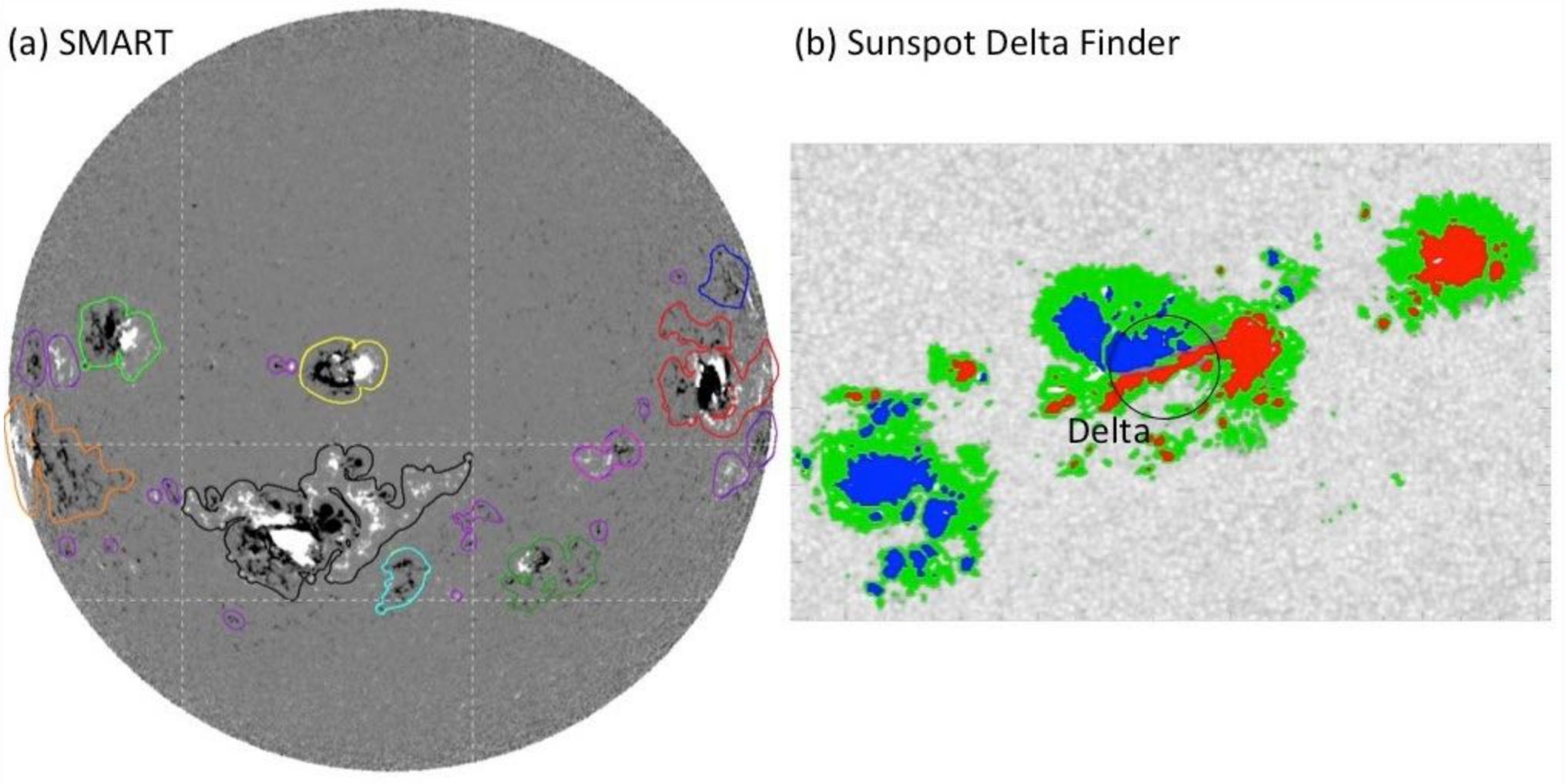
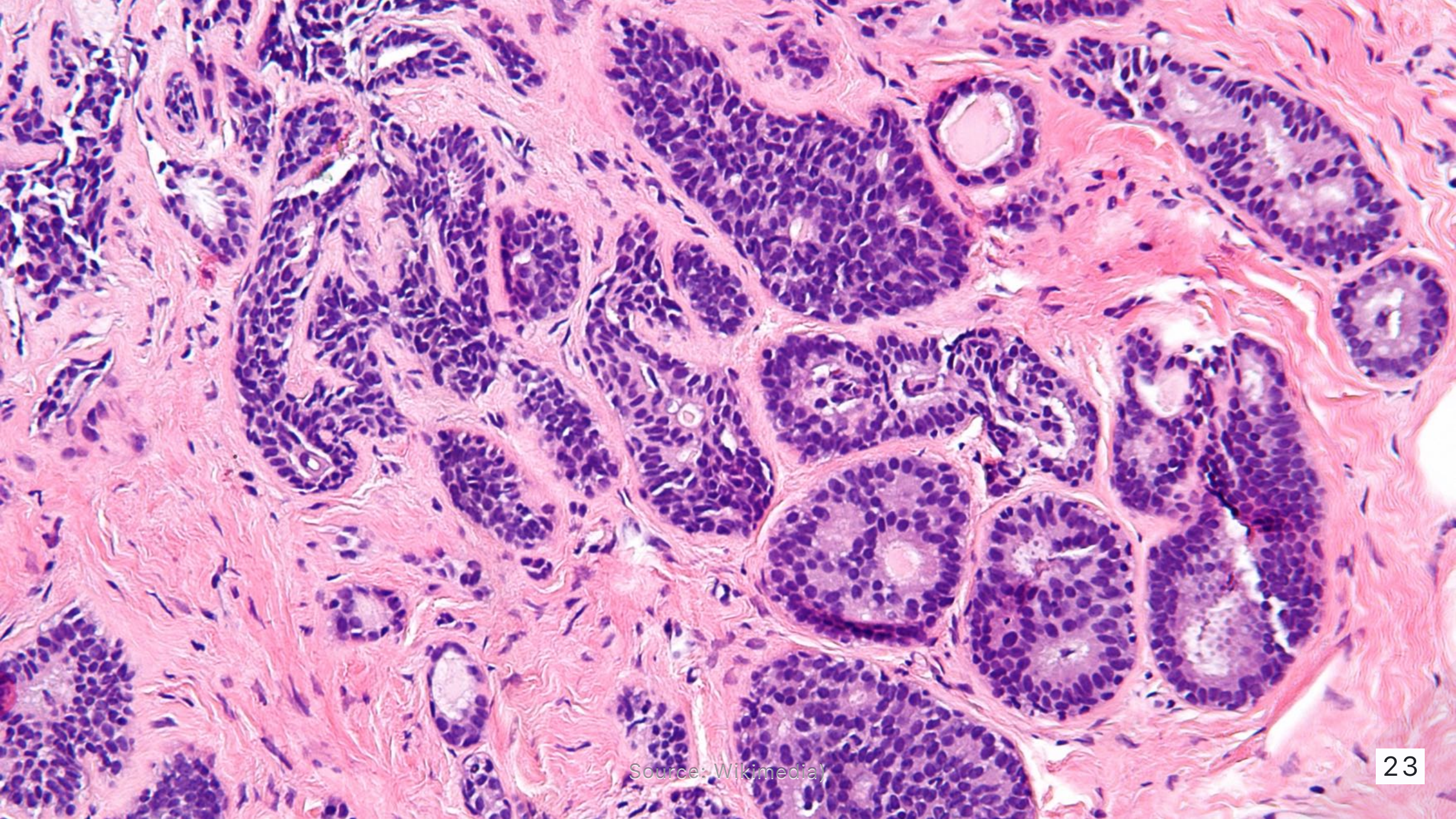
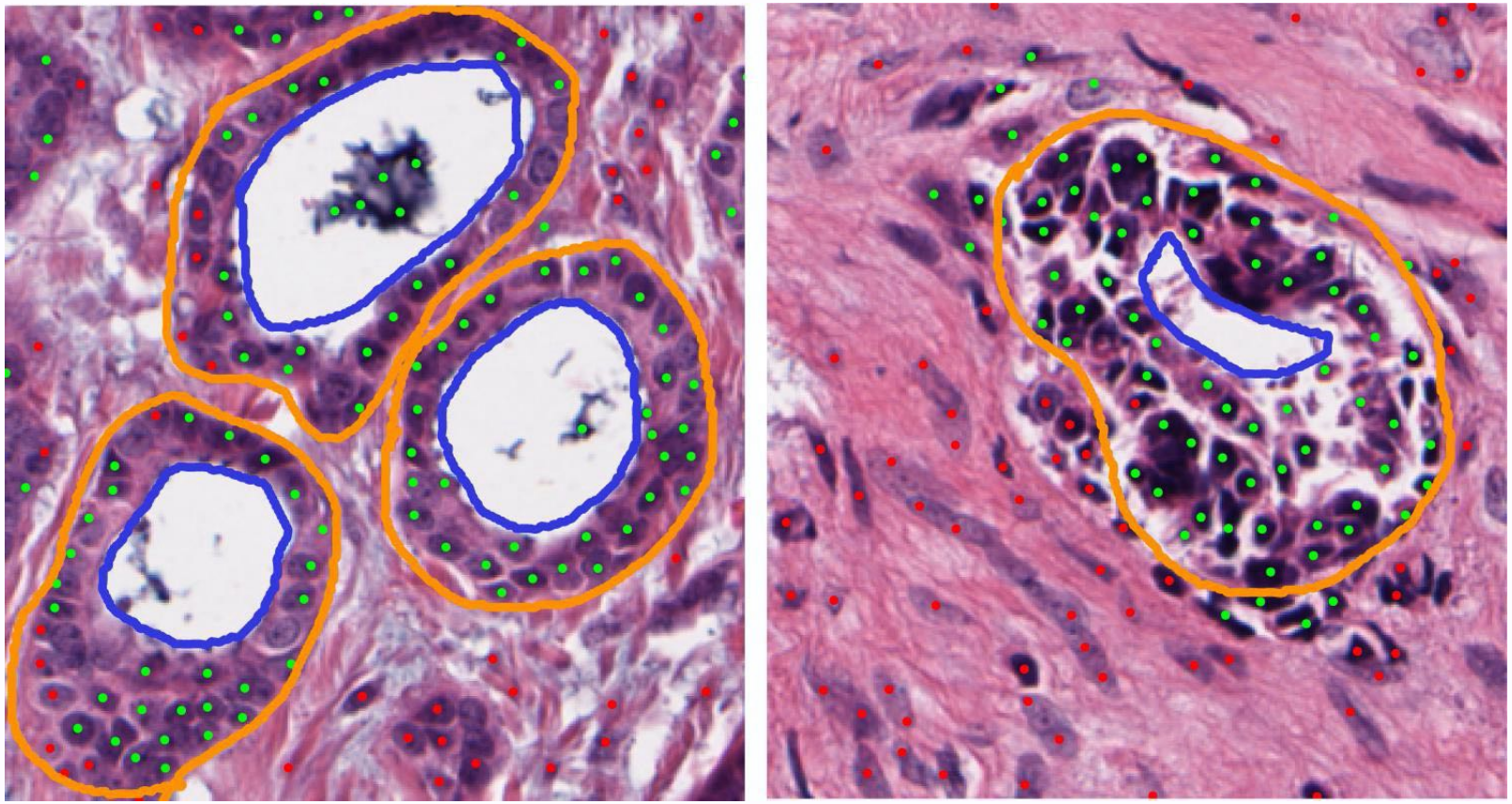


Source: Flarecast.eu



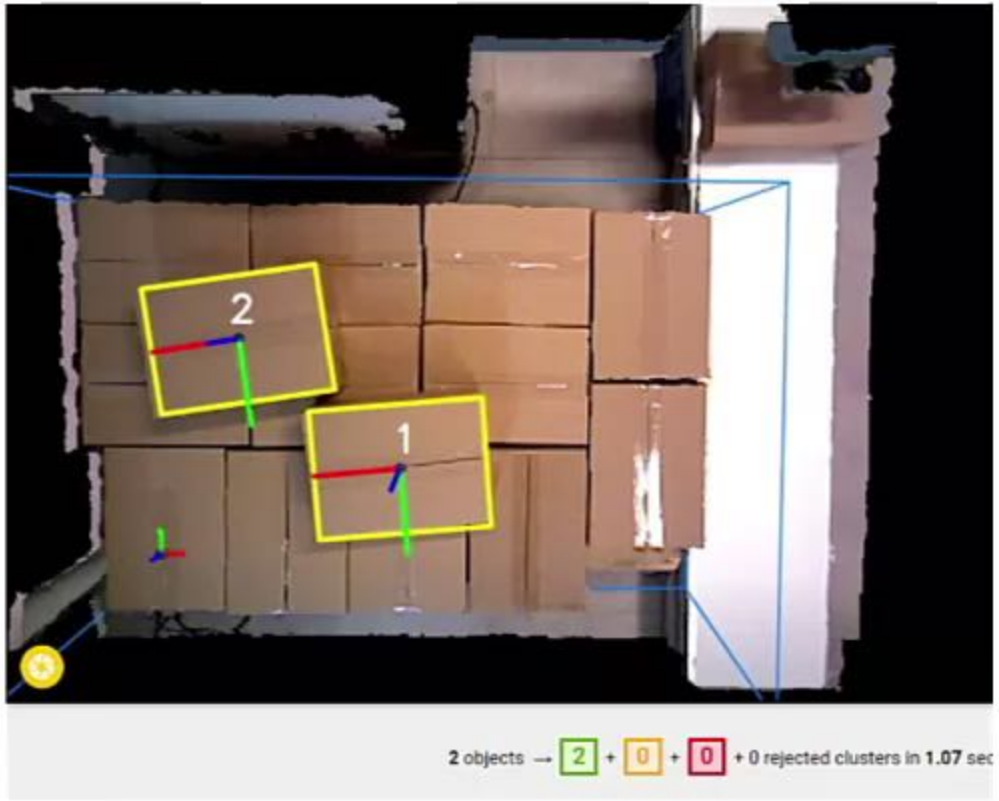
Source: Wikimedia



Source: towardsdatascience

Everyday Life

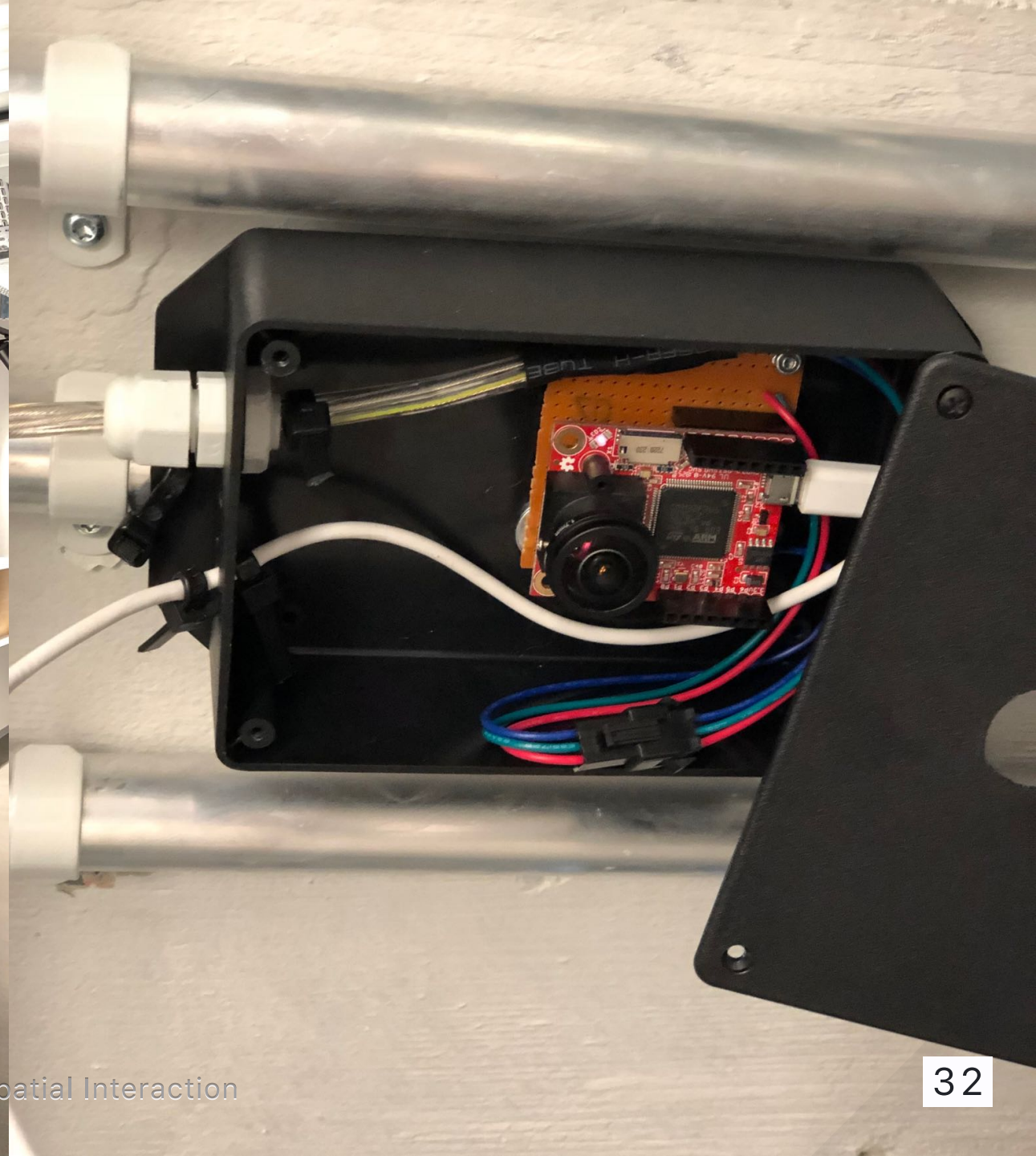
Source: Alexandre Boucher


2
1
2 objects → 2 + 0 + 0 + 0 rejected clusters in 1.07 sec

Source: Google

Source: clearview.ai

Art & Design



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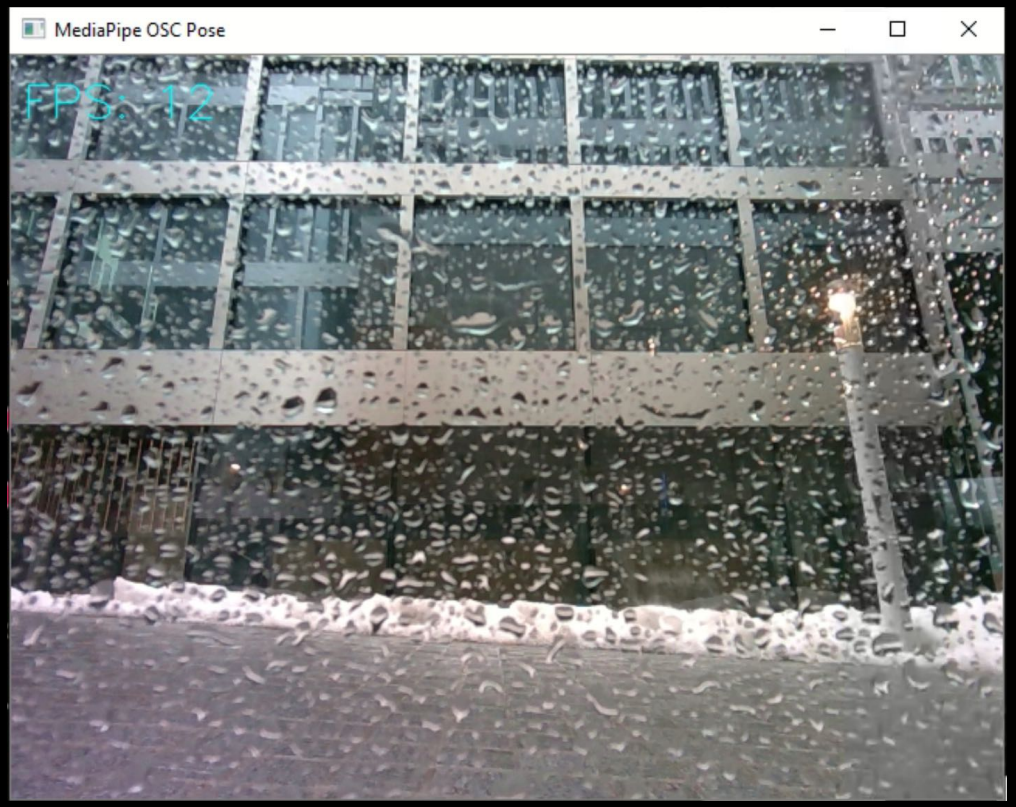
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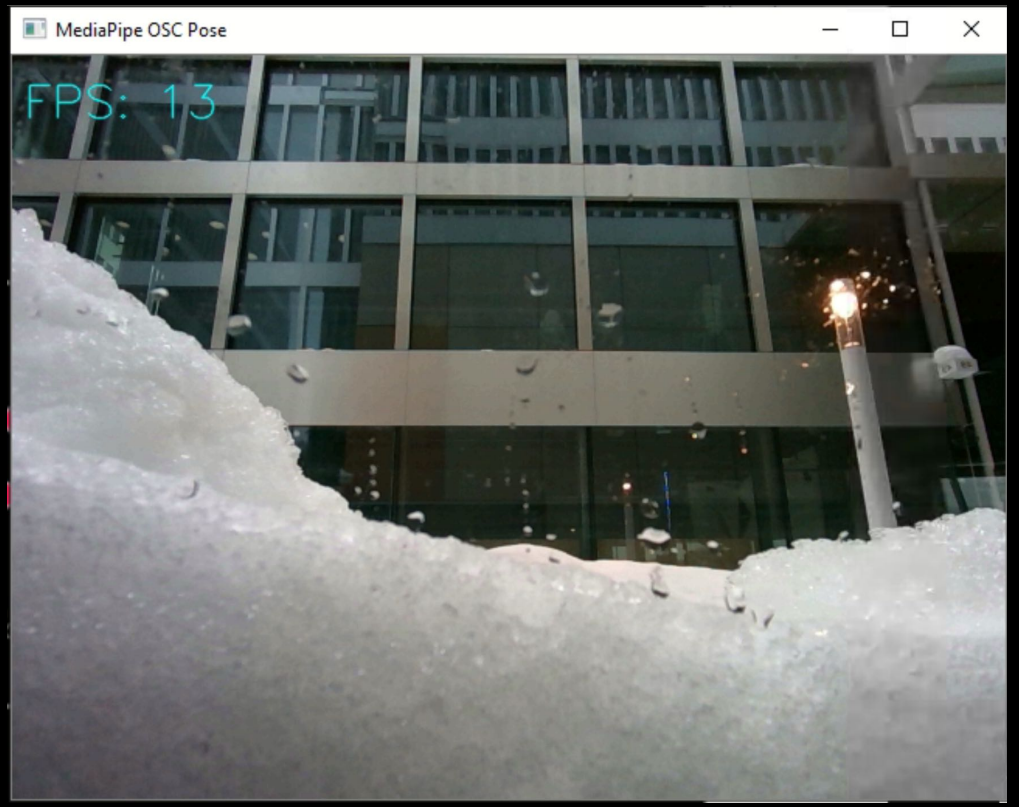
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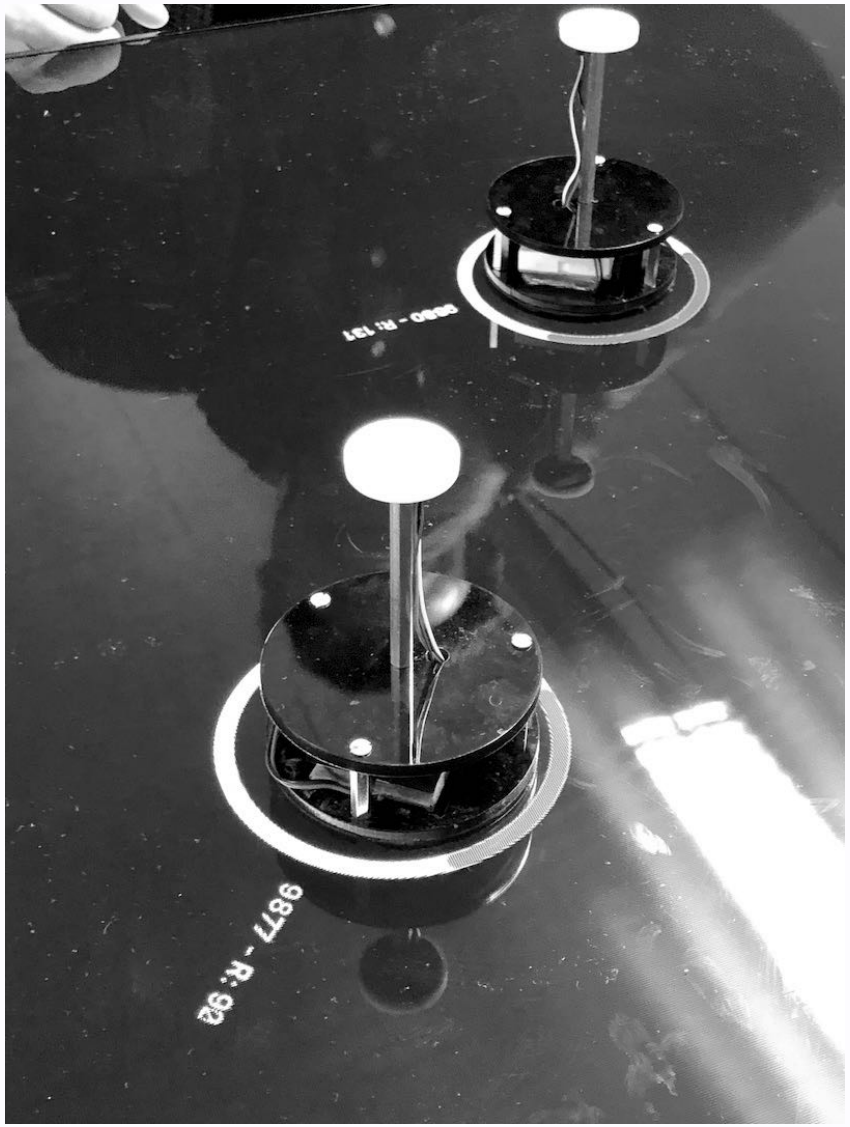

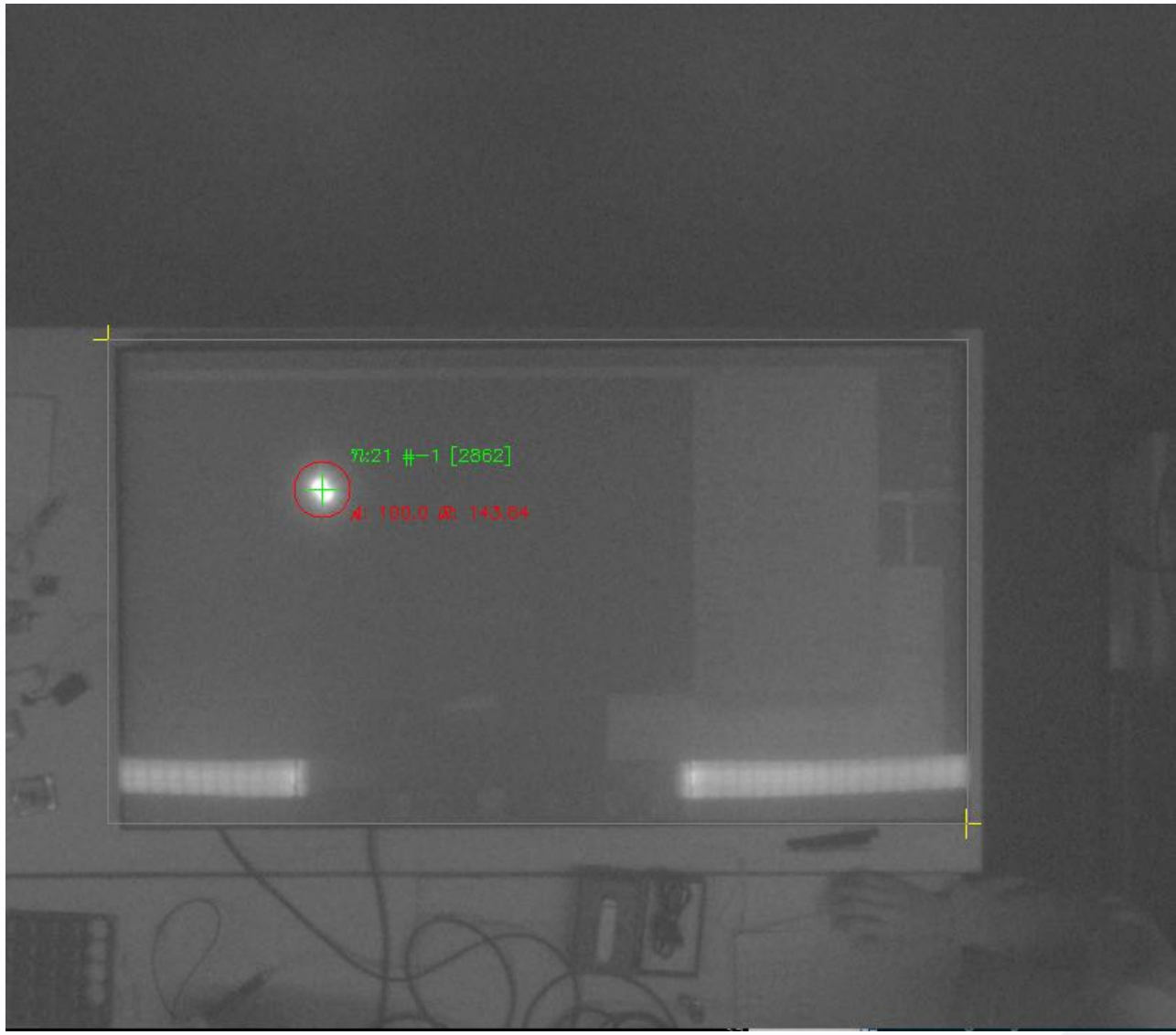

Camera Restricta

> Algorithms are already looking through the viewfinder alongside with you: they adjust settings, scan faces and take a photo when you smile. What if your grin wasn't the only thing they cared about?
>
> *Philipp Schmitt*

Source: Philipp Schmitt

Source: Philipp Schmitt

Source: Philipp Schmitt

HOW NORMAL AM I?

Experience how "artificial intelligence" judges your face

Access to your camera is necessary,
but no personal data is collected.

Computer Vision

- Great tool 🎉
- Be careful and question ⚡

Source: Claudio Schwarz