



#4711

A blue speech bubble with a white question mark and the word 'ORDER?' inside. The bubble is oriented horizontally and has a small tail pointing towards the bottom right.

ORDER?

A blue speech bubble with a white outline and a small tail pointing towards the bottom right. Inside the bubble, the text "YOUR ORDER ID: #4711" is written in a bold, white, sans-serif font.

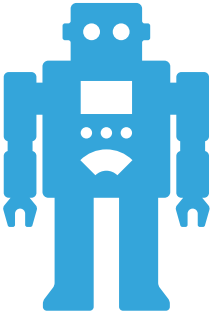
**YOUR
ORDER ID: #4711**





CONFIDENTIALBURGERSINCPARALLEL, BUT ORDER EXECUTION







waiter











Prizzen Owen

Burgherrin





conference machine









#4711 DONE

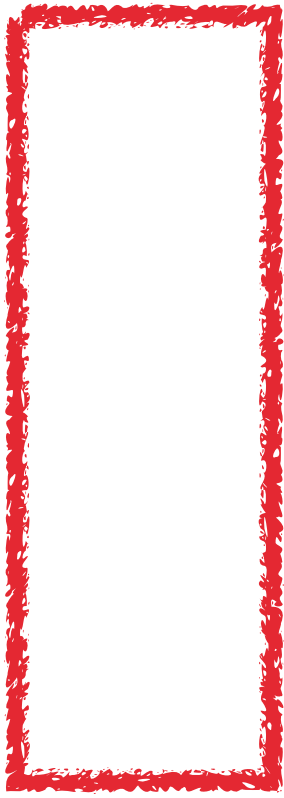


- ▶ Multiple customers' orders **executed in parallel**¹ and **delivered** (retired) **in order**

I.e. multiple orders prepared at the same time

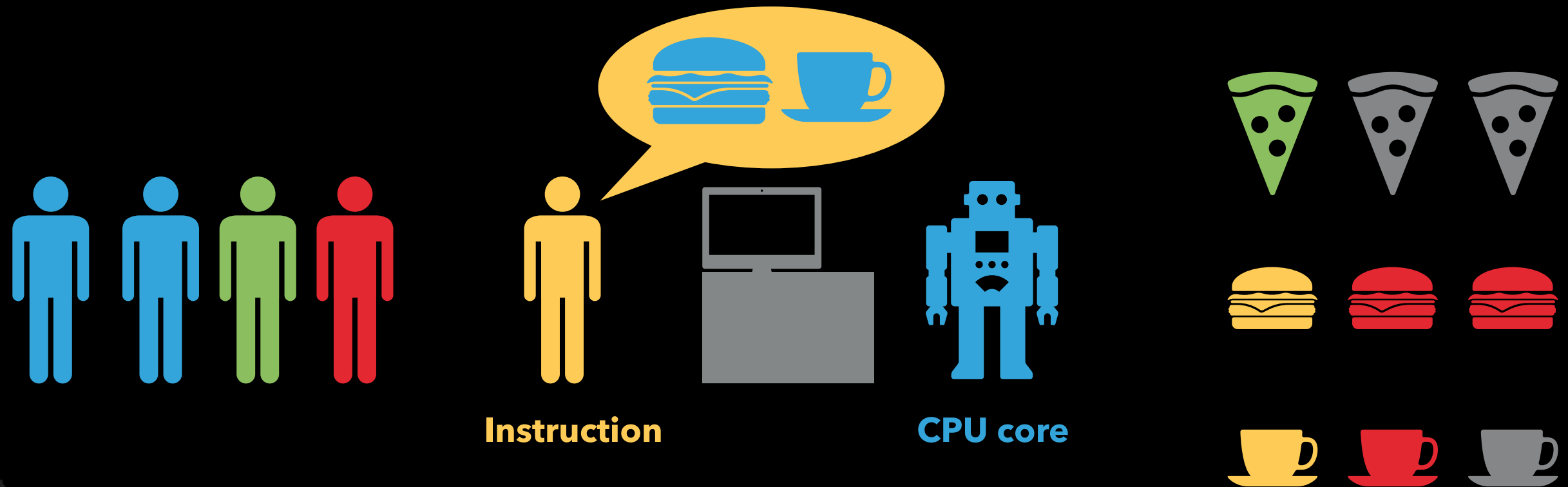
- ▶ PRO: **Faster because resources are utilised even better**
- ▶ CON: More difficult to implement

¹this is called superscalar



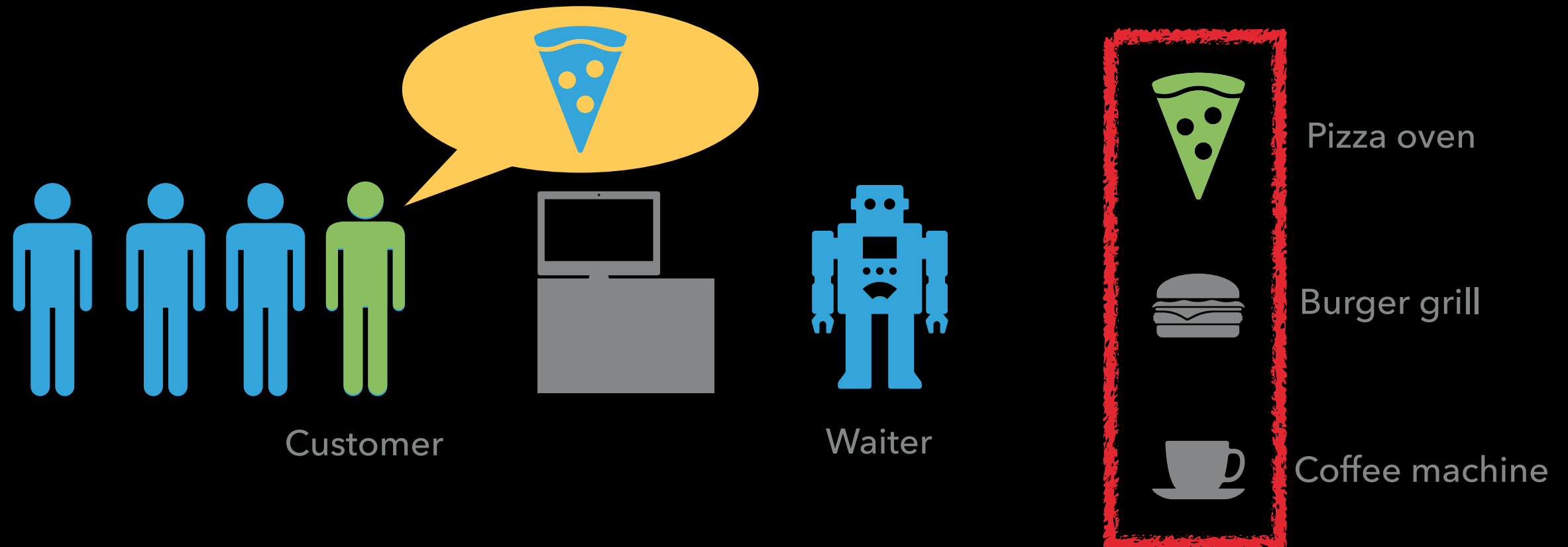


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Adding more resources increase parallelism & throughput.
This is all on one CPU core.

CONFIDENTIAL BURGERS INC. : PARALLEL, OUT OF ORDER EXECUTION



- ▶ Multiple customers' orders executed in parallel¹ and delivered (retired) in order

I.e. multiple orders prepared at the same time

- ▶ PRO: **Faster because resources are utilised even better**
- ▶ CON: More difficult to implement

¹ this is called *superscalar*