



# MKafeína

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**André**  
**Daniel**

**João Paulo**  
**Tharik**

Preço de 1 cafézinho

Mário = R\$2,00

Custo café + açúcar  $\approx$  R\$0,35



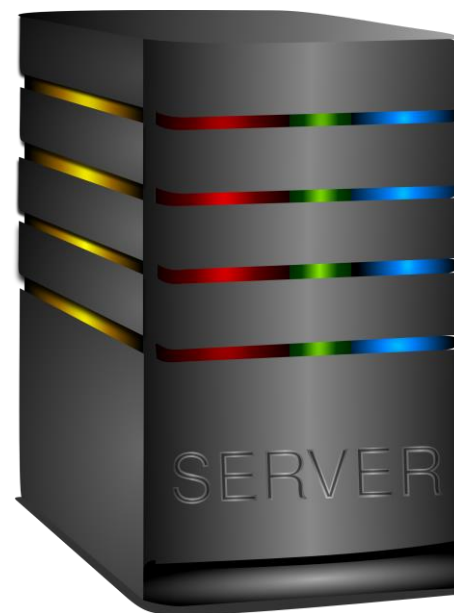
**Cafeteira do ICMC**



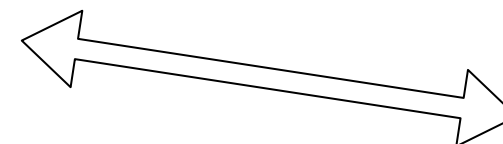
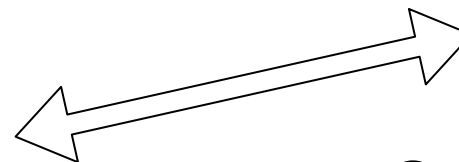
**Cafeteira do CAASO**



**Cafeteira do IAU**



**SERVIDOR**



**Cafeteira da MK**



**Cafeteira do ICMC**



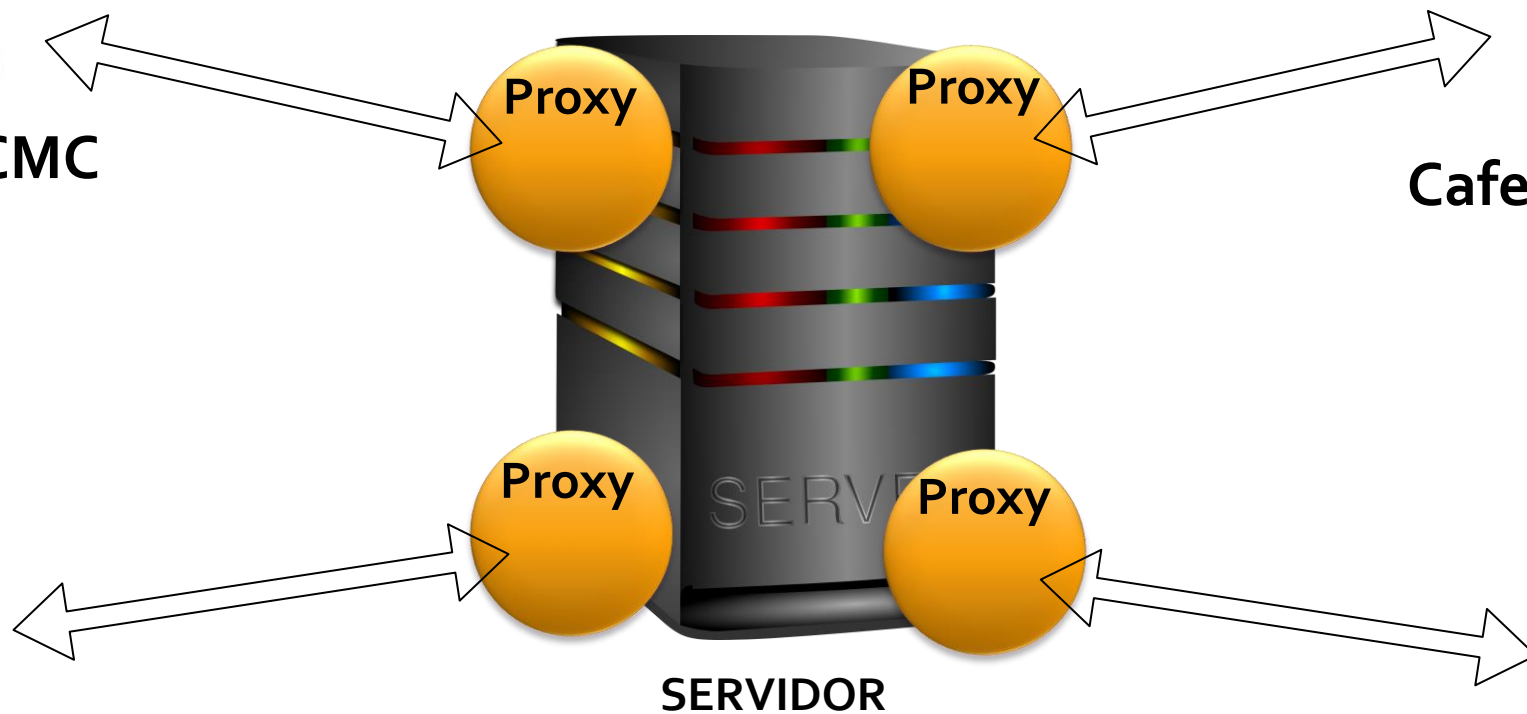
**Cafeteira do CAASO**



**Cafeteira do IAU**



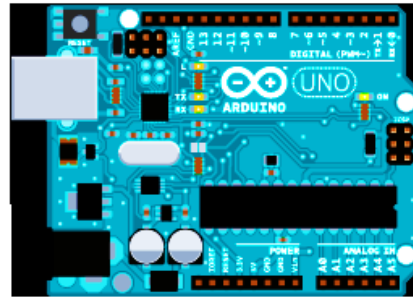
**Cafeteira da MK**





SENSORES

ATUADORES

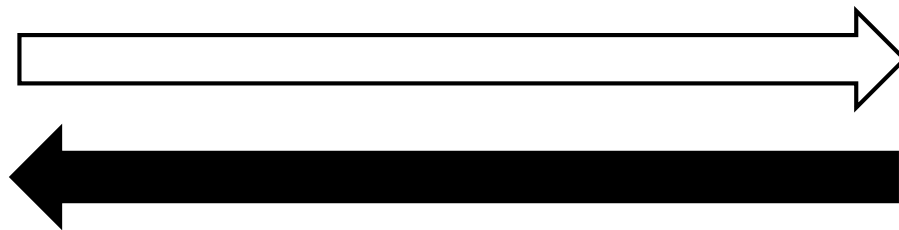
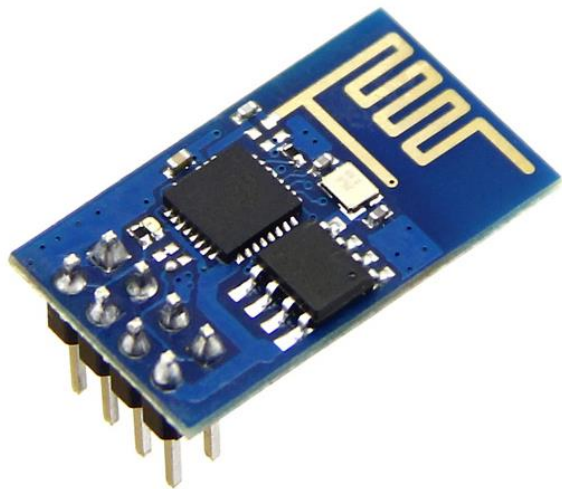


DADOS

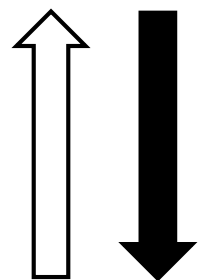
Comunicações sem Fio

COMANDOS

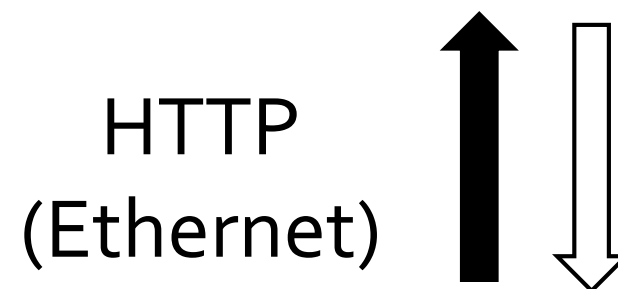




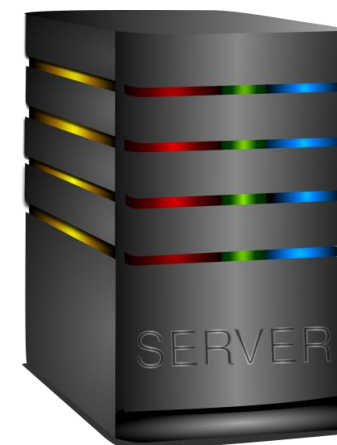
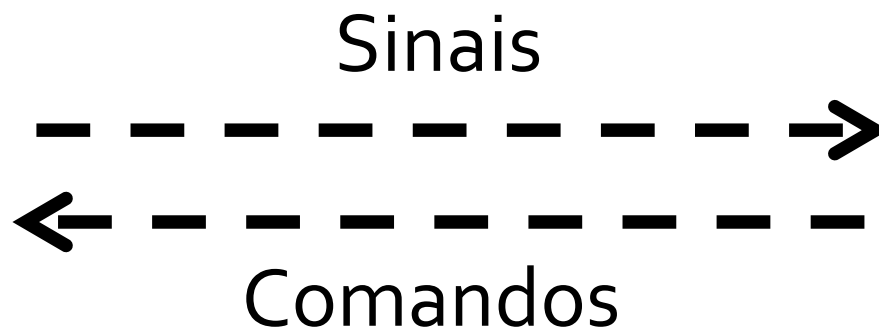
HTTP  
(Wi-fi)



Char  
(Serial)



HTTP  
(Ethernet)



# Tecnologias



**SERVIDOR**  
**(7.000 linhas)**



**MENSAGENS**

# Exemplo de JSON

```
{  
  "mac" : "E841A7FCF5C",  
  "msg" : 1100,  
  "un" : "Prototipo",  
  "stp" : {  
    "ca" : true,  
    "ce" : 0.1,  
    "cf" : 4.1,  
    "wa" : true,  
    "we" : 0.2,  
    "wf" : 4.2,  
    "sa" : true,  
    "se" : 0.3,  
    "sf" : 4.3  
  }  
}
```