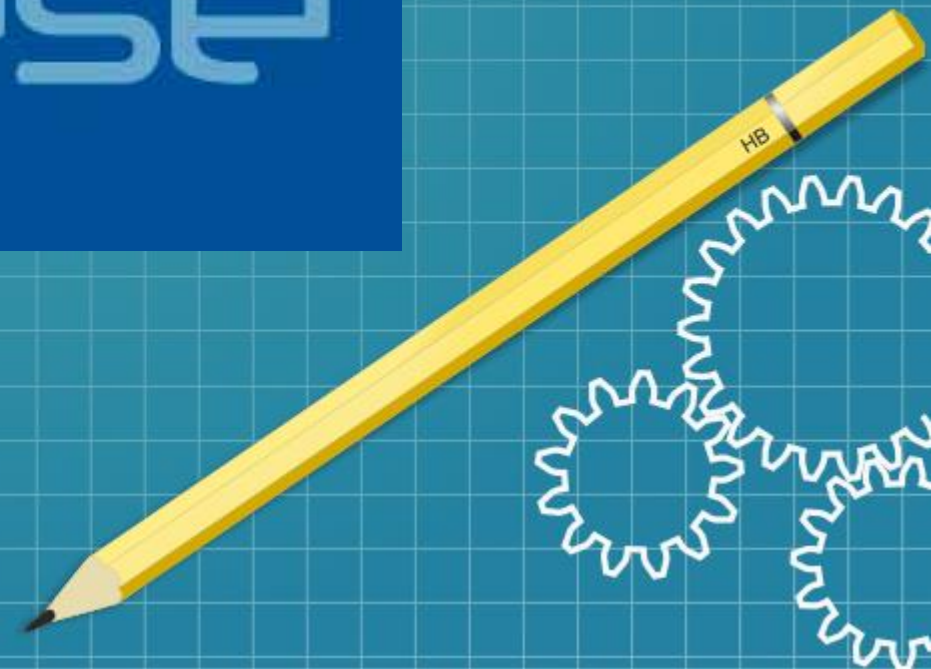


sPicking Assistant



ANGELS

OF

Angela



Alex Sanz



Pablo Orduna



Raúl Logroño

TECHNOLOGIES USED

PYTHON

- Cloud Speech-to-Text
- Google Text-to-Speech
- Mixer

SPYDER (ide python3)

GITHUB

VIM



SPYDER

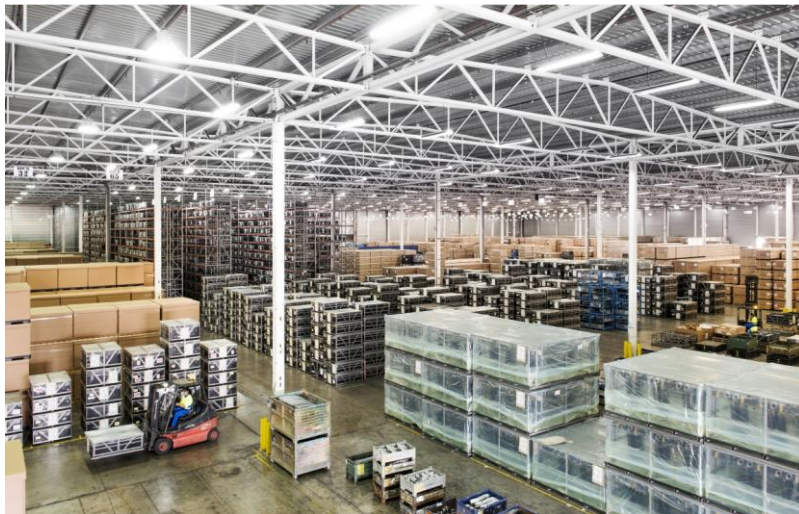


GitHub



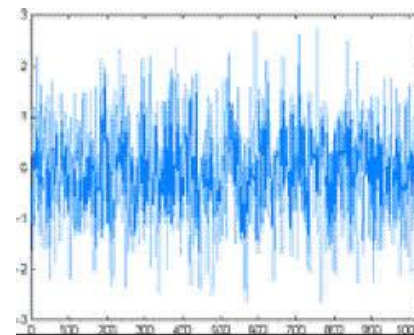
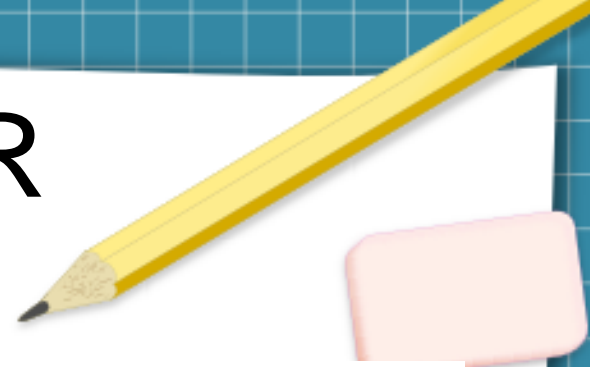
HARDWARE

- Speaker: PC
- Microphone: integrated headset microphone
- It isn't the most appropriate configuration, so
WHY THIS DECISION?

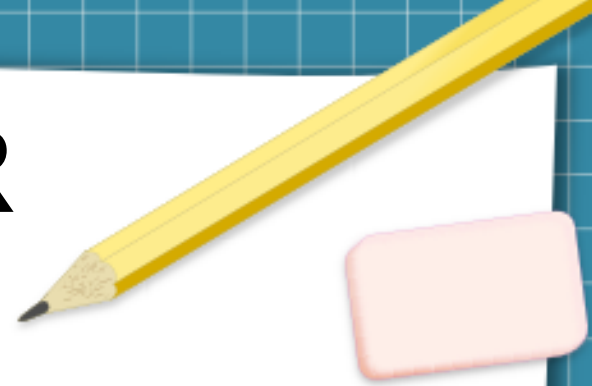


CAPABILITIES OF OUR PROJECT

- Multi-language (spanish and english)
- Human Error Detection
- Logging (we will focus later)
- Hands-free
- Flexible (you can use different gramatical structures)
- Microphone Sensitivity
- Singular and plural differentiation
- Keywords (“pass”)
- Configurable task lists
- Path Optimization



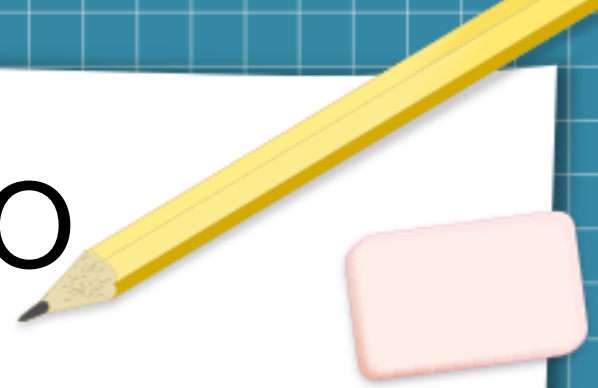
PREVIOUS ERROR CASES



- Before we start moving sticks,
- let's make sure:
 - The number of final products isn't greater than the initial
 - (bad news, sticks are neither created or destroyed, they are preserved)
 - The ordered product is in the initial list
 - (we aren't Sesé,
 - our inventory is limited)



PHYSICAL SCENARIO



We will use two main elements for the development of this practice:

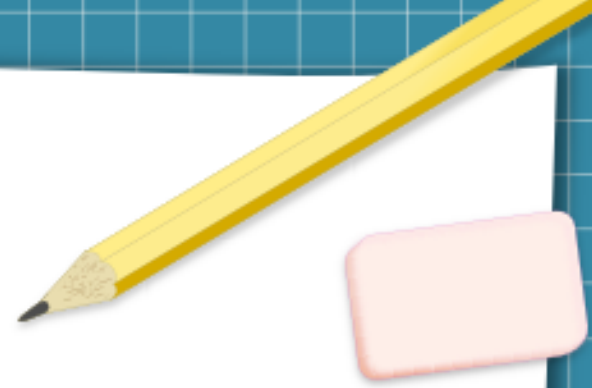


Products: Color sticks



Buyers: You

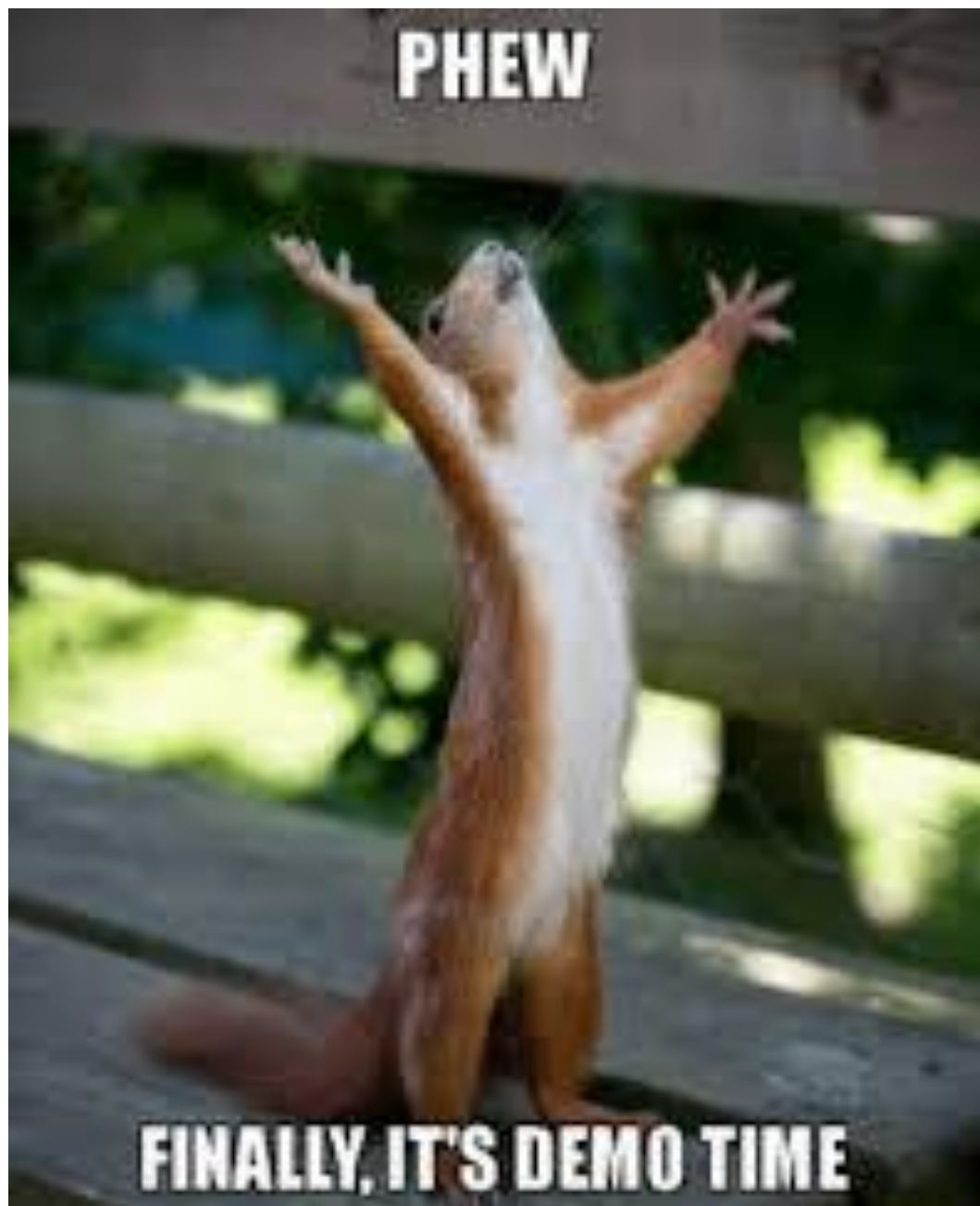
MAKING THE ORDER FILE



- So now,
 - any volunteers who want to make a “shopping list”?



Choose your own
adventure, you are the hero
of this journey



PHEW

FINALLY, IT'S DEMO TIME





LOGGING



- As we all know, machines can fail too:
 - MAN VS MACHINE
 - WHO IS RIGHT?
- LOGS are the answer
- But, if there is an error while the operator is working?
 - “Pass” function to skip the order

FUTURE PLANS

- More language support
- Machine Learning Implementation
- Pressure detection in
- the destination containers



THANK YOU!

SEE YOU IN
FUTURE
HACKATONS

