

# A balance of last class

28 April 2022



# First of all

sorry for the noises coming from my  
microphone during recording

5



Then:

Thank you for your great presentation and for taking part of last class !

All presentations were great!

| Nome     | Sobrenome        | Enviar e-mail        | Duração    | Horário de entrada | Horário de saída |
|----------|------------------|----------------------|------------|--------------------|------------------|
| Produtor | Marcelo Rocha    | prod*****@           | 1 h 24 min | 10:06              | 11:30            |
| Aura     | Conci            | aconci@id.uff.br     | 1 h 25 min | 10:05              | 11:30            |
| Ronaldo  | da Silva Tavares | ronaldosilvatavares@ | 1 h 24 min | 10:06              | 11:30            |
| Fernando | de Sá            | fpgd***@***.com      | 1 h 24 min | 10:06              | 11:30            |
| Bogdan   | Dumitrana        | bogd*****@***.       | 1 h 24 min | 10:06              | 11:30            |
| Lu       | Palhanos         | luro***@***.com      | 1 h 24 min | 10:06              | 11:30            |
| Rodrigo  | Picinini         | ropi***@***.com      | 1 h 24 min | 10:06              | 11:30            |
| Ganadev  | Prajapathy       | gana*****@***        | 1 h 24 min | 10:06              | 11:30            |
| Leandro  | Reis             | lean*****@***.c      | 55 min     | 10:08              | 11:04            |
| Augusto  | Righetti         | augu*****@***.c      | 1 h 24 min | 10:06              | 11:30            |
| jordan   | salas cuno       | jord*****@***.com    | 1 h 24 min | 10:05              | 11:30            |

Almost all of you considered the suggested aspects :

## For next Wednesday :

bring the answer for these

**Features computation** ( why they are chosen )

**Steps** that will be follow in the **processing phase** .

What is considered a **solution** for the initial problem

What is the **input** ?

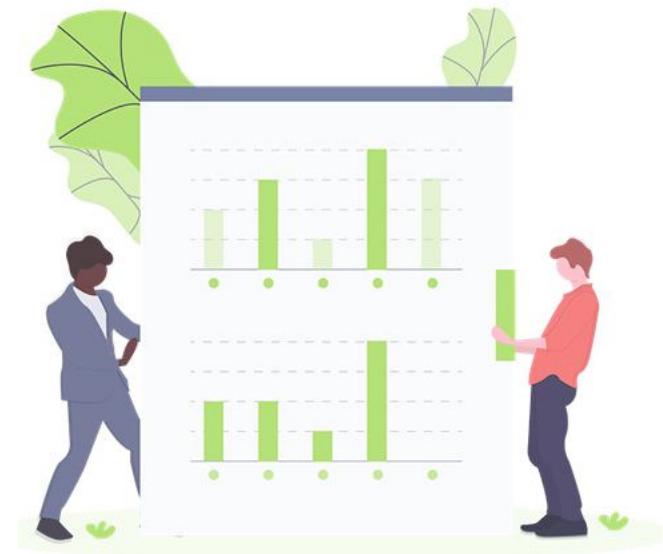
How is the **output** ?

How will be the **evaluation** of the solution ?

What will be the **computational tools to be used** ?

And present they, during the class time , for us consider together their viability !

Your presentation must be included in our classroom ( [code: a7giqcr](#) ) as a [ppt](#) .



# Now:

- let's get ready to have a **full-length version of something** that could actually be a work by the **end of May**;
- Ok! it is always possible to reduce the objective later, but **the time you wasted doing useless implementations and computations will never be recovered.**

# Remember our Agenda !

- if you focus on just **one point** you will not come to an end.
- Much better **to do a little bit of each part**, but having an implementation of **something in a week**;  
( next Wednesday !)
- To be checked and then writing , in the **last Wednesday of May!**

# hypothesis + validation + report

- do little but **go to the end** of a simple and straightforward **hypothesis** that your implementation can verify (**thesis**) and then you can **report** you experience



# Today is the proper time

- To reduce the initial aims and goals !
- Only a simple goal is the best option
- And a well defined goal!
- That you can verify by computational experiments and promptly report it.

# There were 3 types of proposals

1- Present feature and way for it validation ;

2- Present feature but probably will use some machine learning for validation ;

3- Will use machine learning for all aspects .

# Of course

- You must propose a way to do **the work that is more comfortable** for you to achieve to the end!
- But , lets think about the possibility of the **arrive to this end....**



Concrete and simple things has more **probability of successes**

- For instance **imagine this idea** :
- A camera used as aided tool for children learn to write correctly



# It is not difficult to finish it

- Using in it new perspective like :
- To do a program that do:

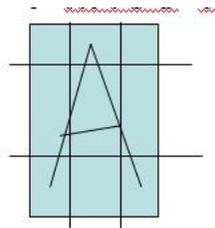
A mapping between a manuscript letter and  
It as AISC character

# Additional reduction

- ASCII is a 7-bit character set containing **128 characters with** the numbers from 0-9, the upper and lower case from A to Z, and some special characters.
- But we will use only upper case from A to Z => reduction

# Concrete and simple Thesis:

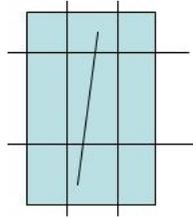
- If we **detect the edges** in the manuscript area ( i.e. its **Bonding box**)
- divided this box in 9 parts ;
- and propose a decision tree relating the manuscript ends with the AISC table we will have X% of correction



This Proposition **you will have success in a week** to implement from zero (for sure):

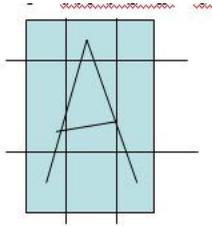
- 1 line with ends in 1 2 3 and 7 8 9 = I

|   |   |   |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |



- 3 lines with ends in 1 2 3 and 8 = Y
- Etc.

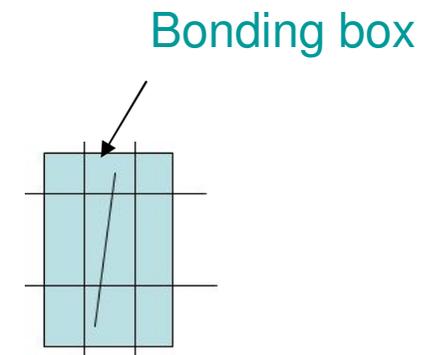
Of course you will have problems  
in this first approach



- But this is related to the **X** in the percentage of:  
  
“.....a decision tree relating the manuscript ends with the AISC table we will have **X%** of correction.”

# So before to begin

- How about simplify and organize what you will do ?



# Concrete and simple things has more probability of successes

- For example consider what is your hypothesis.
- Then do a concrete proposition like:
- I / we will do a program to solve only this .....
- Do it and evaluated how much you achieved before try more complex path
- But be yourself the master of your ideas and explain them with simpler words next week
- And do the master of your implementation as much as possible

# See you next

- Wednesday
- When you show as your first result.

