

# Programming

## Class 14 - Erros & asserts

Universidad CES



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The background is a dark blue-tinted aerial photograph of a city, likely Rio de Janeiro, showing a large building complex and a parking lot filled with cars. Overlaid on the left side is a semi-transparent blue shape with a decorative pattern of white leaf-like motifs. The text 'Error handler' is centered in white.

# Error handler

# Errors

Python not  
let us know

Check  
manually

Debbuging

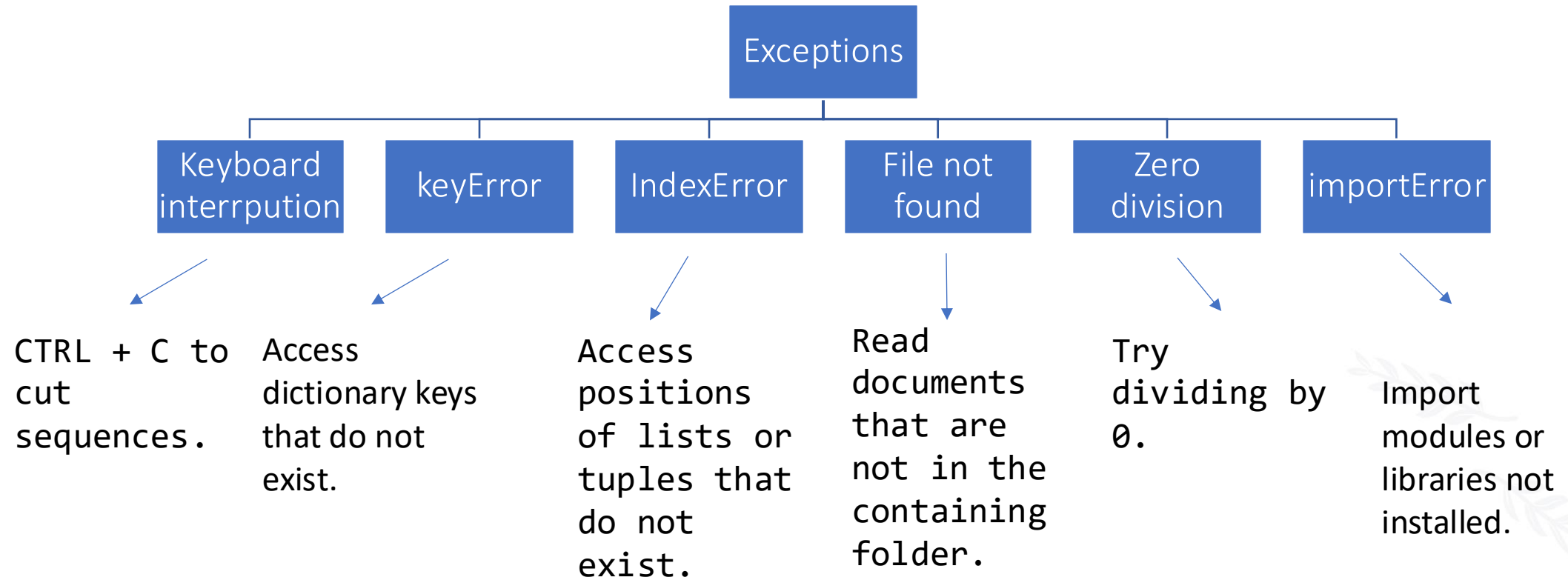
Python let  
us know

SyntaxError

Exception

→ Normally python detects it  
before executing the code  
and doesn't execute it.

→ It is identified in  
a special point  
where a line is  
executed.



\*There are mor than 50! These ones are just an example



# Traceback

```
Traceback (most recent call last):  
  File "<stdin>", line 1, in <module>  
ZeroDivisionError: division by zero
```

# Exceptions

Key word: raise, try, except y finally

Try y except. Traduce intentar a menos que! Ver ejemplo.

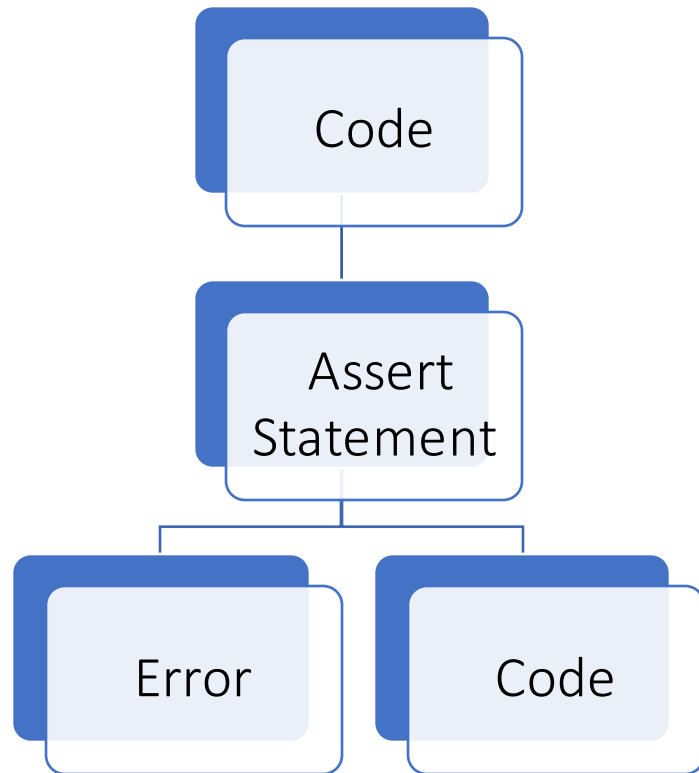
Raise es elevar un tipo de error determinado a otro.

Finally su función es hacer algo si sucede un error ó no. Útil en manipulación de archivos o conexión a bases de datos.

The background is a dark blue-tinted aerial photograph of a city. A large, semi-transparent blue shape with rounded corners is overlaid on the left and top portions of the image. This shape is decorated with a repeating pattern of white, stylized leaf or branch motifs. In the center of the image, the word "Asserts" is written in a white, sans-serif font.

# Asserts

# Assert Statement



It is an elegant way to handle errors in python.

If the statement is true, the error is executed.

If not, continue with the code. It is similar to a conditional

Syntax:

`assert condition, error message`



The background is a dark blue-tinted aerial photograph of a city, likely Rio de Janeiro, showing a mix of modern high-rise buildings and older structures nestled in a valley. A large, semi-transparent blue shape, resembling a stylized 'C' or a partial circle, is positioned in the upper left and center. Overlaid on this shape and the background are several white laurel wreath branches, which are traditional symbols of achievement or victory. The text '¿What is a lambda function?' is written in a clean, white, sans-serif font across the middle of the image, centered within the blue overlay.

¿What is a lambda function?

# Lambda – Anonymous functions

They are unnamed functions, small and simple expressions to execute a particular action.

What is lambda? It is a python flag to tell the computer to create an anonymous function.

Syntaxis

Lambda inputs: expressions

## Lambda – Anonymous functions

To instantiate anonymous functions or lambda functions let's build a function that identifies when a word written forwards and backwards reads the same.

\*See concept of palindrome



Conditionals

Cycles

Functions

List  
comprehension

Exceptions

# Thank you



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