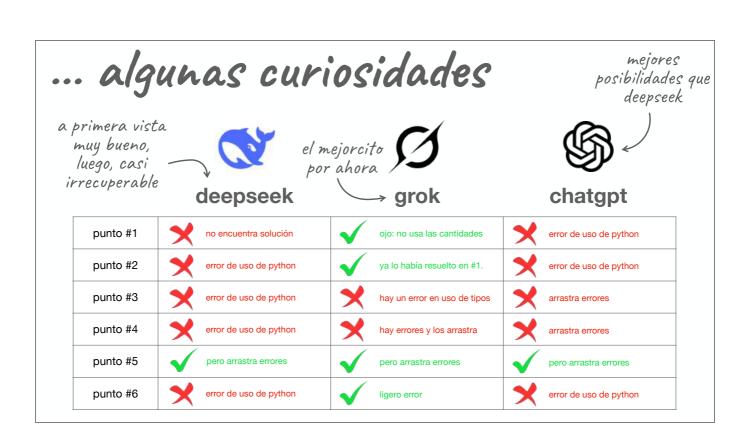
INVESTIGACIÓN OPERATIVA SUPERIOR

continuamos con scheduling

Presencial



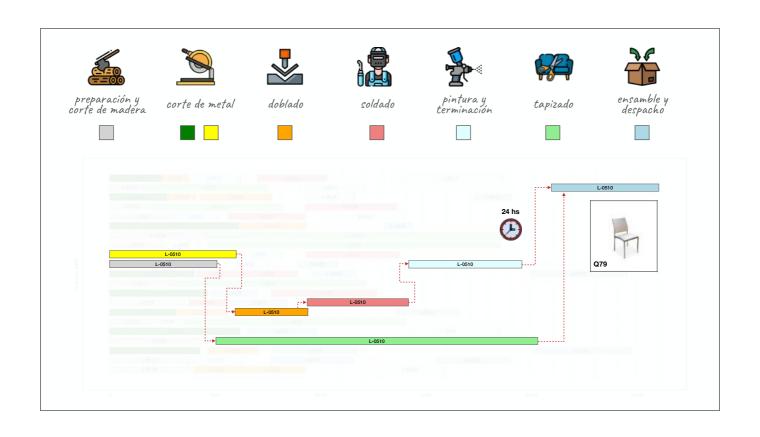


limitaciones de licencia



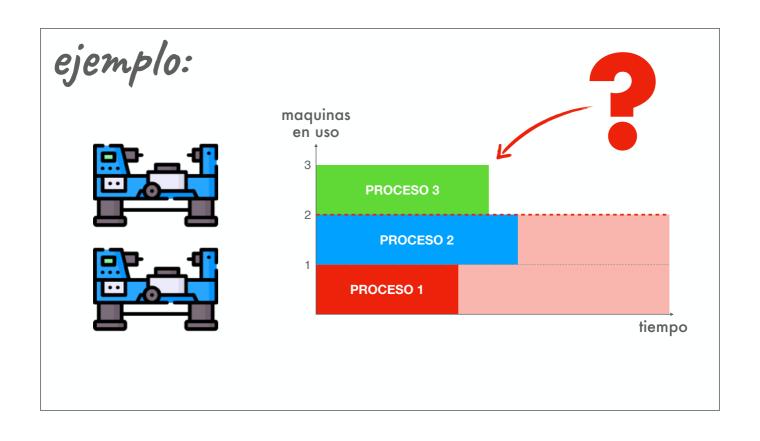
scheduling
(parte II)

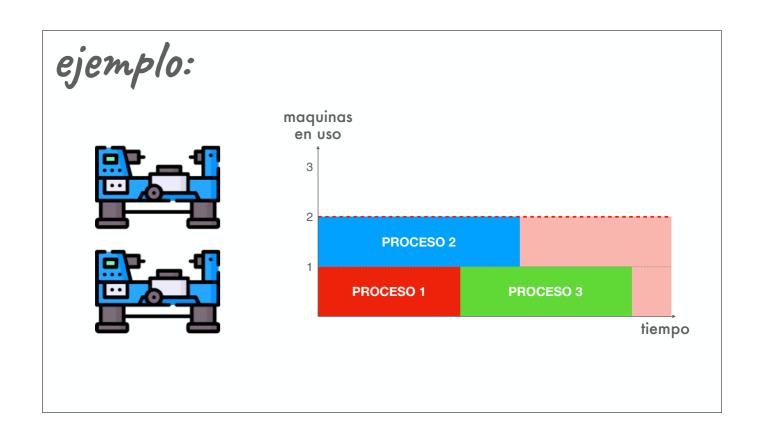


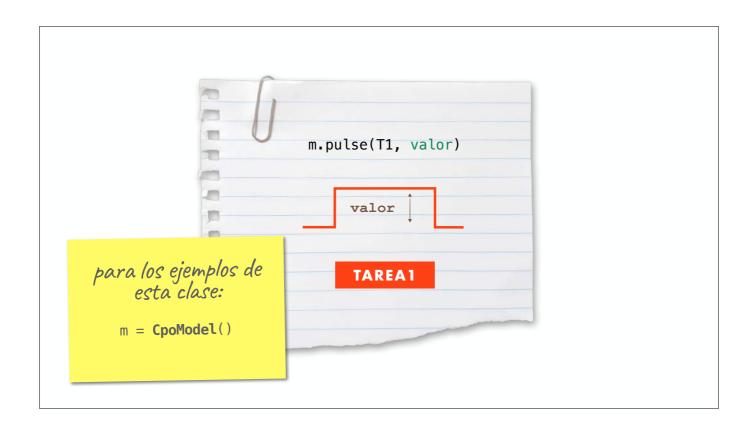


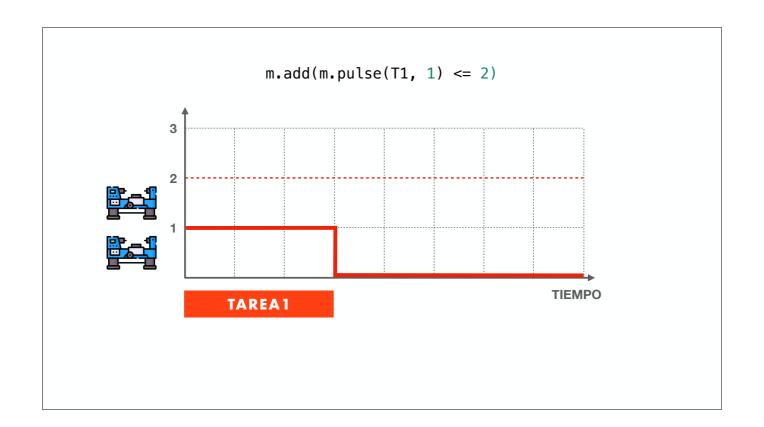


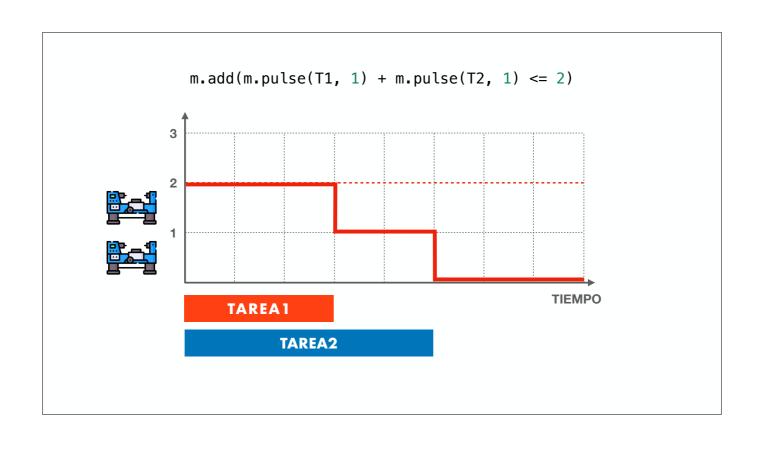


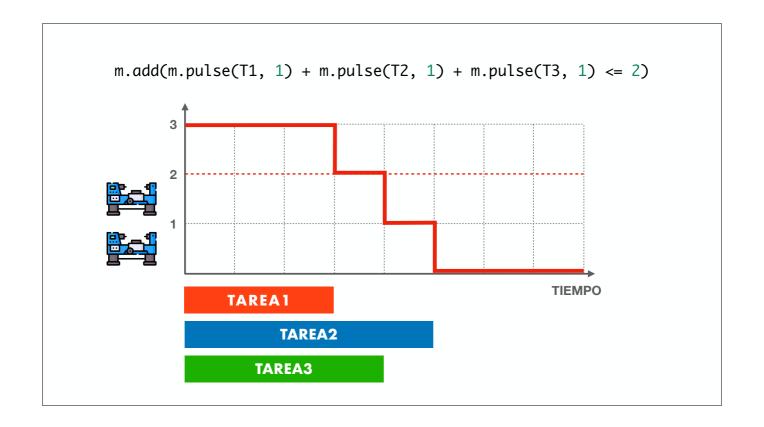


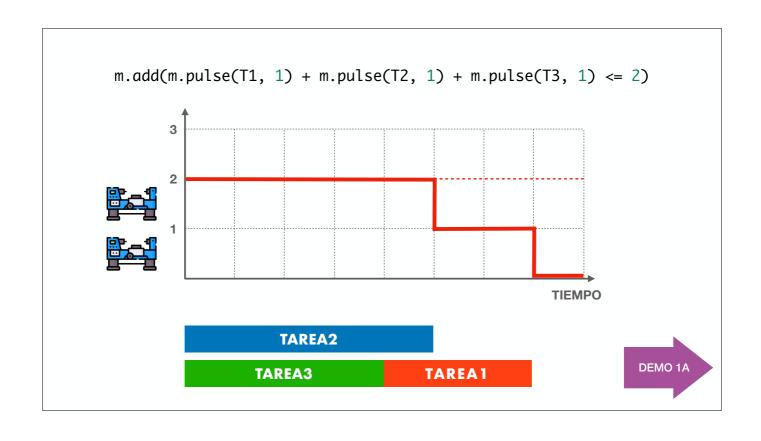


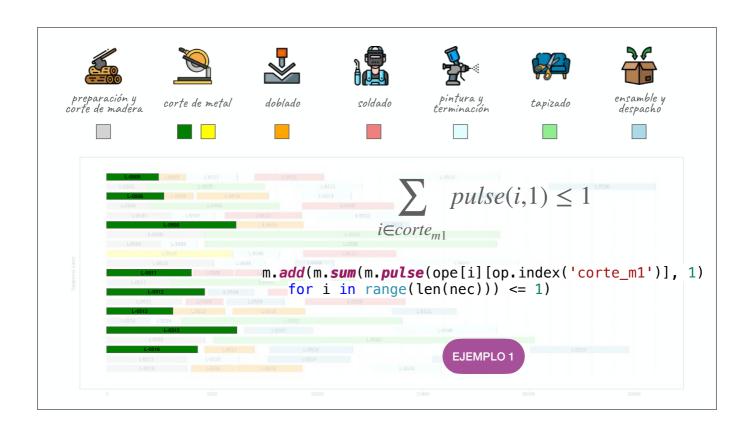






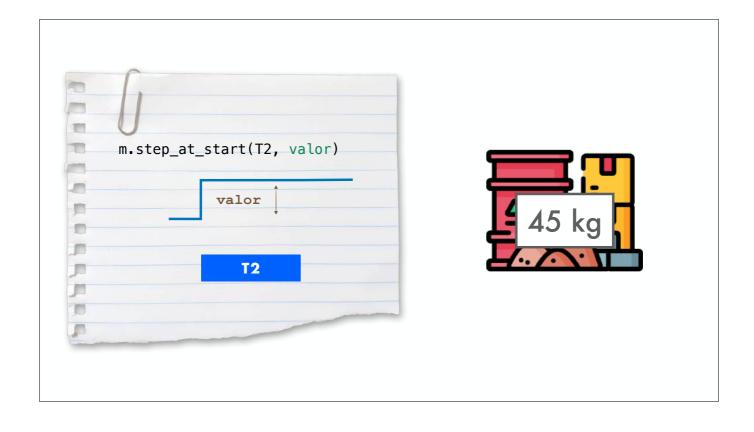


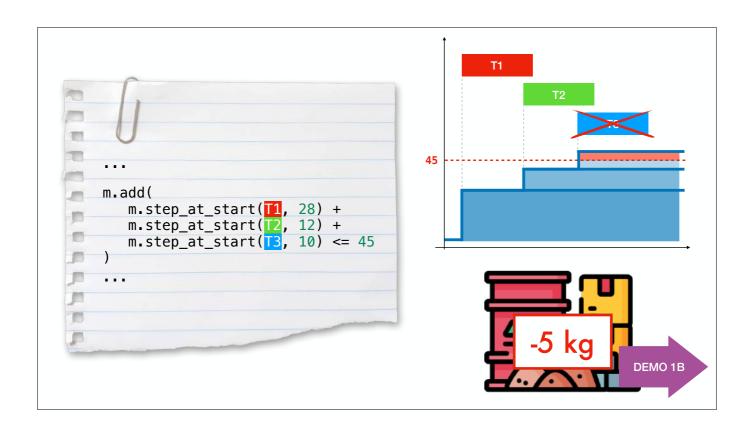


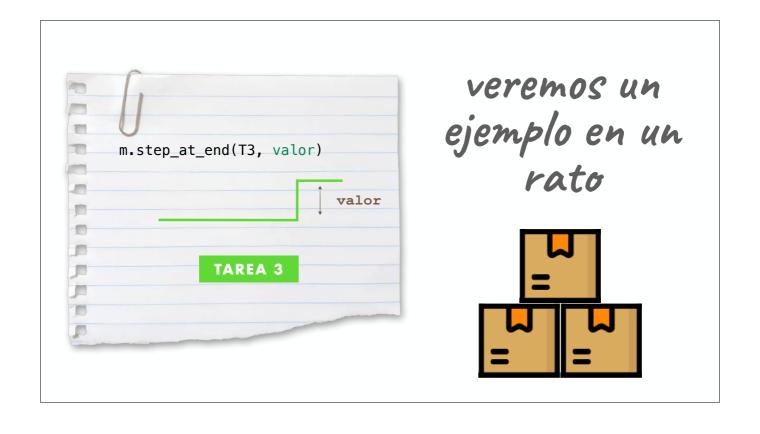




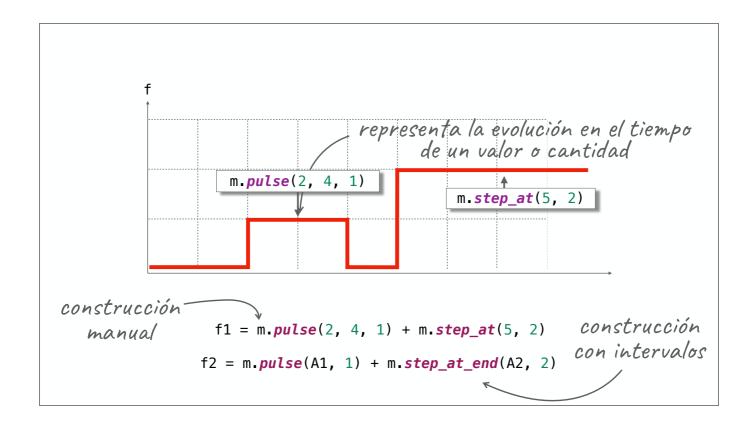


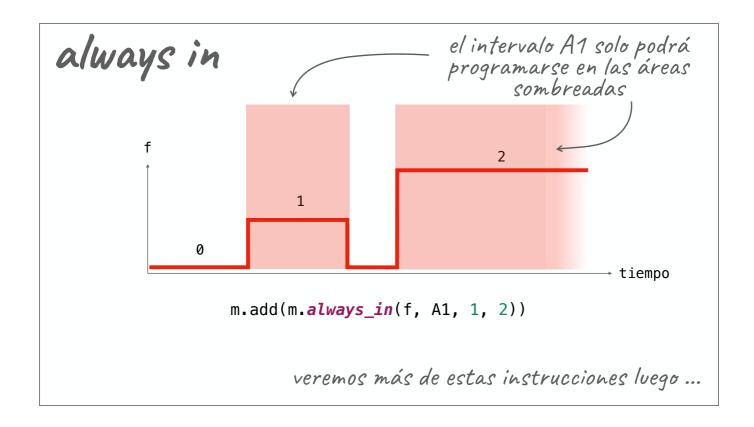


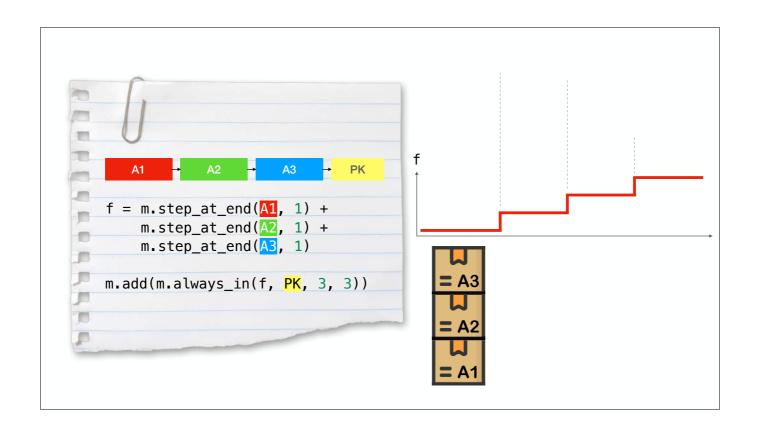












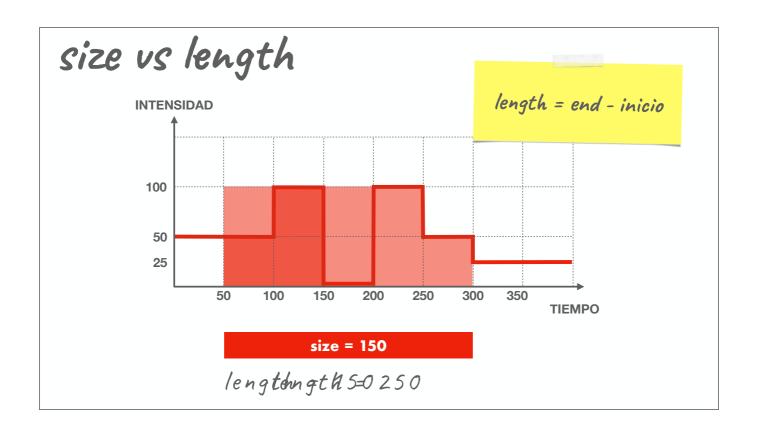
```
para graficar ...
                                         f = CpoStepFunction()
                                         f.add_value(0, 10, 20)
                                         f.add_value(10, 40, 40)
                                         f.add_value(40, 60, 40)
                                         visu.function(
      20
                                              segments = f,
                                              style = 'area',
                                              origin = 0,
                                              horizon = 30,
   para graficar debo
crear una función
                                              color = 'red')
                               60
        tipo step
                                                                 DEMO 1C
```

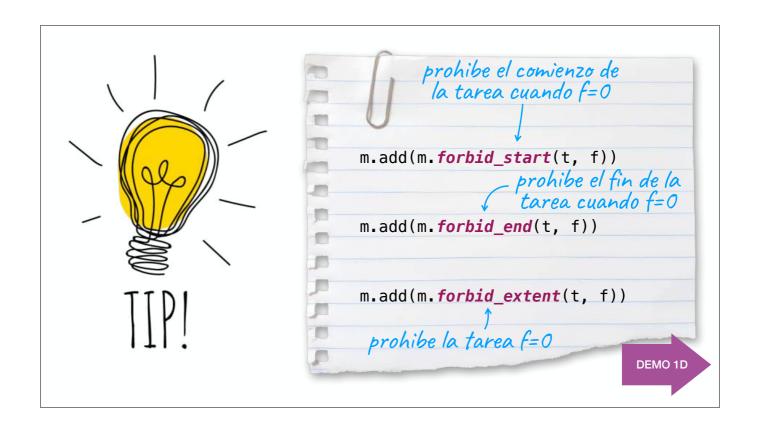


```
intensity

t = m.interval_var(size=11 intensity=f, name = 't')

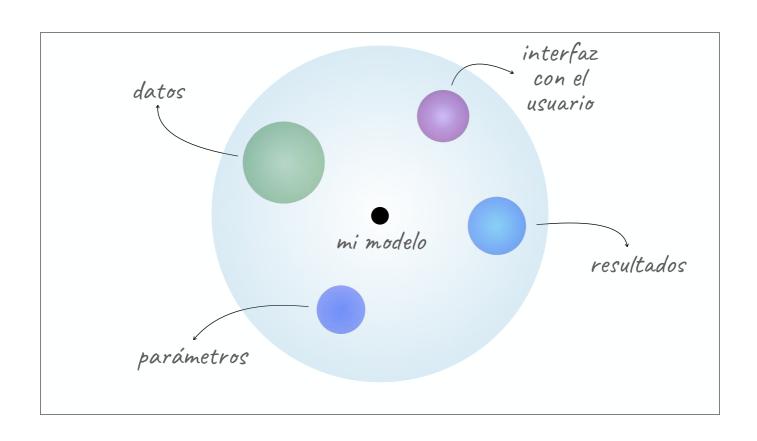
la tarea se realizará acorde
    a la función f (en %)
```



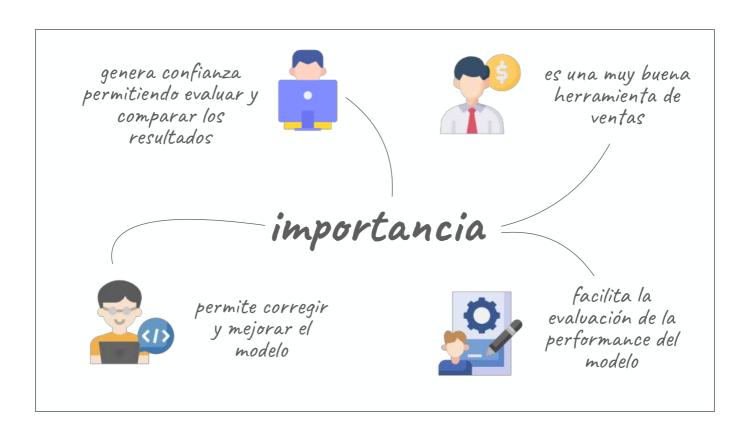




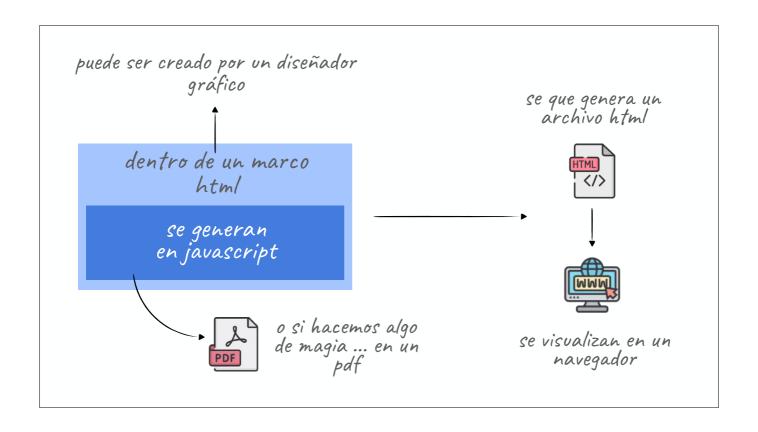


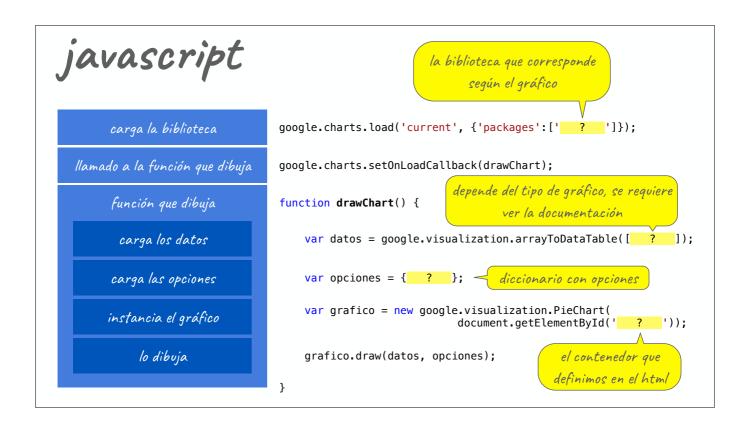




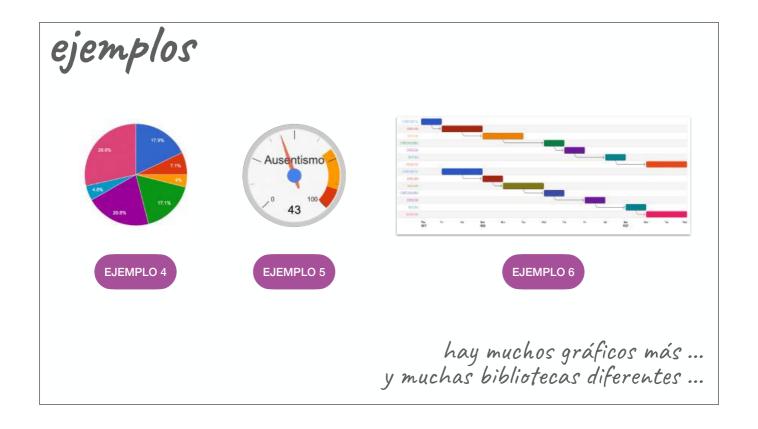


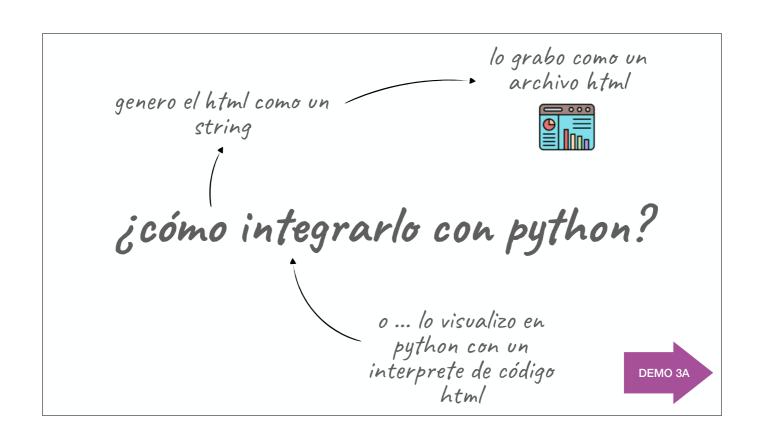






```
html (básico)
        encabezado (head)
                                      <html>
                                        <head>
        llamados a las apis
                                          <script type="text/javascript"</pre>
                                          src="https://www.gstatic.com/charts/loader.js"></script>
<script type="text/javascript">
        sección javascript
                                                                                   explicado en el slide
           javascript
                                                        javascript
                                                                                        anterior
                                          </script>
                                        </head>
        diseño html (body)
                                        <body>
                                          <div id="piechart" style="width: 900px; height: 500px;"></div>
                                        </body>
      contenedor del gráfico
                                      </html>
                                                     id utilizado en el
                                                        javascript
```







pyhtml2pdf



```
import os
```

```
from pyhtml2pdf import converter

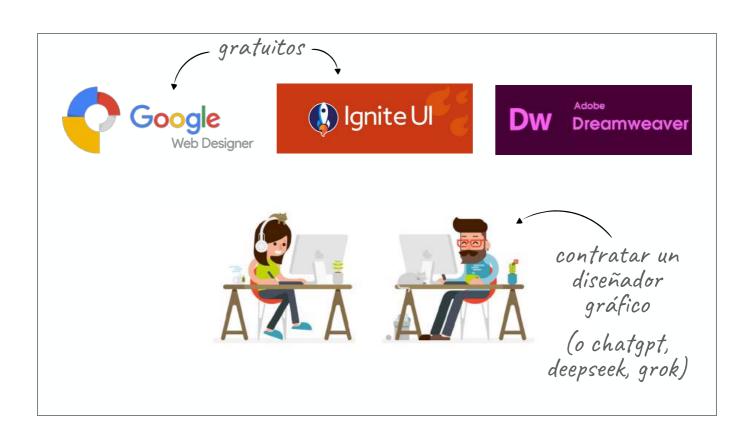
path = os.path.abspath('reporte.html')

converter.convert(f'file:///{path}', 'reporte.pdf')
```





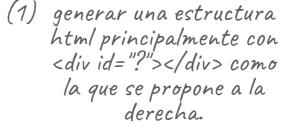
finalmente el diseño ...

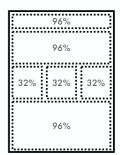




algunas practicas optativas ...

tip: pueden pintar de diferentes colores los DIV para diferenciarlos





(2) probar cargar distintos gráficos en el html.

(3) incorporar todo a python y transformarlo a pdf.



[Python] bibliotecas:

https://pypi.org/project/ipython/

https://docs.python.org/3/library/os.html

https://pypi.org/project/html/

https://pypi.org/project/pyhtml2pdf/

[Diseño] links:

https://designer.igniteui.com/

https://www.adobe.com/

https://webdesigner.withgoogle.com/

para la próxima clase ...



Español



Español



próxima clase:

clase virtual

scheduling 3, introducción a base de datos, otras bibliotecas de CP y presentación del problema integrador

INVESTIGACIÓN OPERATIVA SUPERIOR

jmuchas gracias!