99506 2021-7-29 Spain 4422291.0 26689.0 632935.0 81442.0 46.0 **99507** 2021-7-30 44.0 Spain 4447044.0 24753.0 654358.0 81486.0 532 rows × 7 columns In [219... x= covid_spain.date y = covid spain.cumulative total cases plt.figure(figsize=(20,10)) plt.fill_between(x,y, color="skyblue", alpha=0.3) plt.plot(x, y, color="Slateblue", alpha=0.7) plt.title("Casos acumulados del Covid19 en España") plt.xlabel("Fecha") plt.ylabel("Casos") ax = plt.gca() ax.axes.xaxis.set_visible(False) plt.show() Casos acumulados del Covid19 en España titanic_df.head() PassengerId Survived Name Sex Age SibSp **Ticket** Cabin Embarked **Pclass** Parch **Fare** 0 1 0 3 Braund, Mr. Owen Harris A/5 21171 7.2500 NaN S 22.0 1 0 male Cumings, Mrs. John Bradley (Florence 1 1 female 0 PC 17599 71.2833 **C85** C 38.0 1 Briggs Th... STON/O2. 2 Heikkinen, Miss. Laina 3 1 3 0 0 7.9250 S female 26.0 NaN 3101282 Futrelle, Mrs. Jacques Heath (Lily May female 35.0 53.1000 3 1 113803 C123 S 4 5 0 Allen, Mr. William Henry 0 0 373450 8.0500 S male 35.0 NaN titanic_df.describe() **PassengerId** Survived **Pclass** SibSp **Parch Fare** Age 891.000000 891.000000 891.000000 714.000000 891.000000 891.000000 891.000000 count 0.523008 mean 446.000000 0.383838 2.308642 29.699118 0.381594 32.204208 257.353842 0.486592 1.102743 0.806057 0.836071 14.526497 49.693429 std 1.000000 0.000000 1.000000 0.420000 0.000000 0.000000 0.000000 min 223.500000 0.000000 0.000000 25% 2.000000 20.125000 0.000000 7.910400 50% 446.000000 0.000000 3.000000 28.000000 0.000000 0.000000 14.454200 75% 668.500000 1.000000 3.000000 38.000000 1.000000 0.000000 31.000000 891.000000 1.000000 3.000000 80.000000 8.000000 6.000000 512.329200 max survivals = df.PassengerId[df.Survived == 1] females = df[df.Sex == "female"] class1 = df[df.Pclass == 1] class1females = class1[class1.Sex == "female"] class1Surviving = class1[class1.Survived == 1] femalesSurviving = females[females.Survived == 1] femalesSurviving.shape[0] class1FemalesSurviving = femalesSurviving[malesSurviving.Pclass == 1] plt.figure(figsize=(20,10)) subsets = (females.shape[0], class1.shape[0], class1females.shape[0], survivals.shape[0], femalesSurviving.shape[0] venn3(subsets, set labels=("Females", "Class 1", "Survivals")) venn3 circles(subsets, alpha=1, linestyle="-", linewidth=1) Out[290... [<matplotlib.patches.Circle at 0x152bfaf5400>, <matplotlib.patches.Circle at 0x152bfaefa00>, <matplotlib.patches.Circle at 0x152bfaef910>] Females Class 1 314 216 91 233 136 342 Survivals students df In [244... reading scores =students df["reading score"] outstanding = reading_scores[reading_scores >= 90] notable = reading_scores[(reading_scores >=70) & (reading_scores <90)]</pre> good = reading_scores[(reading_scores >= 50) & (reading_scores <70)]</pre> didnt_pass = reading_scores[reading_scores < 50]</pre> data = {'Outstanding': outstanding.shape[0] / reading scores.shape[0] * 100, 'Notable': notable.shape[0]/ reading 'Good': good.shape[0]/ reading scores.shape[0]*100 , 'Didnt pass': didnt pass.shape[0]/ reading scores.s fig = plt.figure(FigureClass=Waffle, rows=7, values=data, colors=("#983D3D", "#232066", "#DCB732", "#60F75D"), title={'label': 'Percentage of Students Performance in Reading test ', 'loc': 'center'}, labels= $[f''\{k\} (\{v\}\%)''$ for k, v in data.items()], legend={'loc': 'lower left', 'bbox_to_anchor': (0, -0.1), 'ncol': len(data), 'framealpha': 0}, starting_location='NW', block arranging style='snake', tight=False, figsize=(14, 8) fig.set_facecolor('#EEEEEE') plt.show() Percentage of Students Performance in Reading test Outstanding (7.9%)
 Notable (43.4%)
 Good (39.7%)
 Didnt pass (9.0%)

#Import libraries

import pandas as pd
import seaborn as sns

%matplotlib inline

covid spain

98976 2020-2-15

98977 2020-2-16

98978 2020-2-17

98979 2020-2-18

98980 2020-2-19

99503 2021-7-26

99504 2021-7-27

99505 2021-7-28

In [238...

from pywaffle import Waffle

from matplotlib_venn import venn2, venn2_circles, venn2_unweighted

covid spain = pd.read csv("worldometer coronavirus daily data.csv")

710.0

736.0

764.0

792.0

810.0

4342054.0

4368453.0

4395602.0

date country cumulative_total_cases daily_new_cases active_cases cumulative_total_deaths daily_new_deaths

708.0

734.0

762.0

790.0

808.0

564515.0

585935.0

610295.0

0.0

0.0

0.0

0.0

0.0

81268.0

81323.0

81396.0

NaN

NaN

NaN

NaN

NaN

15.0

55.0

73.0

NaN

26.0

28.0

28.0

18.0

20541.0

26399.0

27149.0

from matplotlib venn import venn3, venn3 circles

students df = pd.read csv("StudentsPerformance.csv")

covid_spain = covid_spain[covid_spain.country == "Spain"]

 $\textbf{from} \ \texttt{matplotlib} \ \textbf{import} \ \texttt{pyplot} \ \textbf{as} \ \texttt{plt}$

titanic df = pd.read csv("titanic.csv")

Spain

Spain

Spain

Spain

Spain

Spain

Spain

Spain