COVID19_SPA_VISUAL

COVID-19 in SPAIN¶

Official Data Source: https://www.mscbs.gob.es/

Official Data in pdf (2020-03-03 to Today):

Official Data in .csv (2020-03-03 to Today):

```
1) COVID19_SPA.csv the data correspond to the whole of the Spanish State.
2) COVID19_SPA_AC.csv the data has been classified by Autonomous Communities (Regions).
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Dataset Info¶

Each dataset contains 9 columns:

- **Region**
- **Date**
- [1] **Total** : Total Confirmed Cases.
- [2] **AI(14d)** : Accumulated Incidence in the last 14 days.
- [3] [4] **Hospitalized**
- [4] **ICU**
- [3] **Deads**
- [3] **Recovered**
- **New** : New Confirmed Cases

[1] The Total Confirmed Cases do not come from the sum of Hospitalized, Recovered and Dead patients, since they are not exclusive.
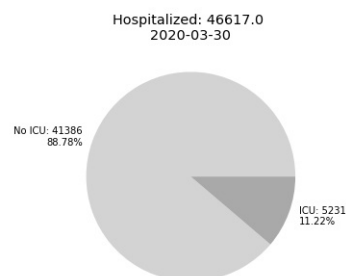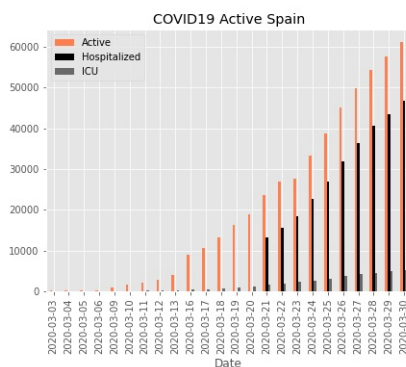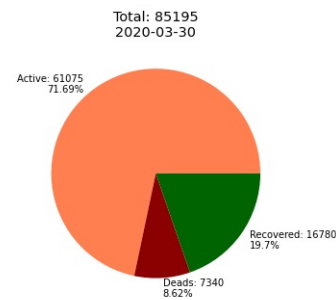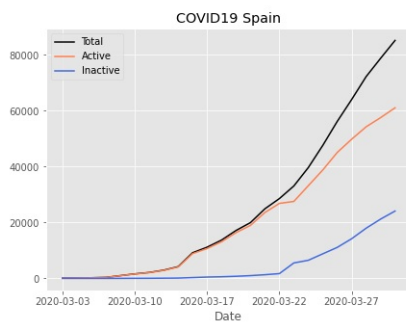
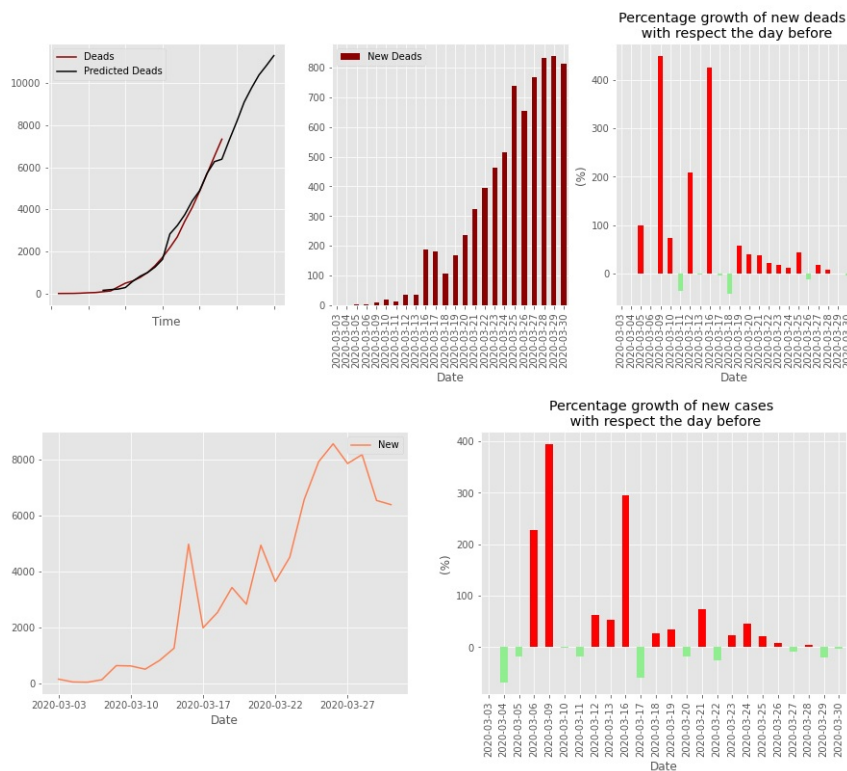[2] AI: Accumulated incidence (cases accumulated per 100,000 inhabitants).

[3] Dead and Recovered patients may have been hospitalized and therefore compute in both groups.

[4] Patients who have required ICU also compute in patients who have been hospitalized.

COVID19 in the Spanish State¶

Data Visualization of COVID19_SPA.csv
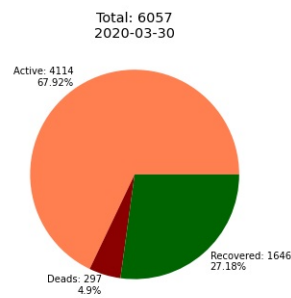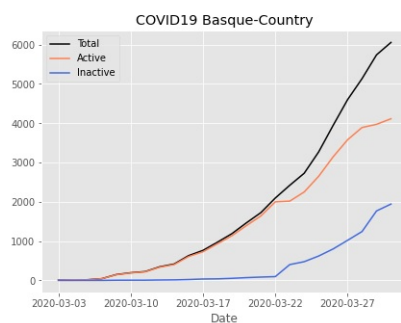
Percentage growth of new cases¶

- i, day
- N_i, new cases on day i
- Percentage growth of new cases, $\frac{N_{i}-N_{i-1}}{N_{i-1}}100 \ (\%)$

Notable changes in the percentage growth of reported new cases:

- 2020-03-06
  - **+228.2%** more new cases than on 2020-03-05.
- 2020-03-07 **No Data**.
- 2020-03-08 **No Data**.
- 2020-03-09
  - **+395.3%** more new cases than on 2020-03-06.
- 2020-03-14
  - **Lockdown measures are implemented**
- 2020-03-16
  - **+295.7%** more new cases than on 2020-03-15.

COVID19 in the Basque Country¶

Data Visualization of COVID19_SPA_AC.csv

COVID19 Active Basque-Country

- Active
- Hospitalized
- ICU

Hospitalized: 3427.0
2020-03-30

No ICU: 3134
91.45%

ICU: 293
8.55%

Percentage growth of new deads
with respect the day before

- New Deads

Percentage growth of new cases
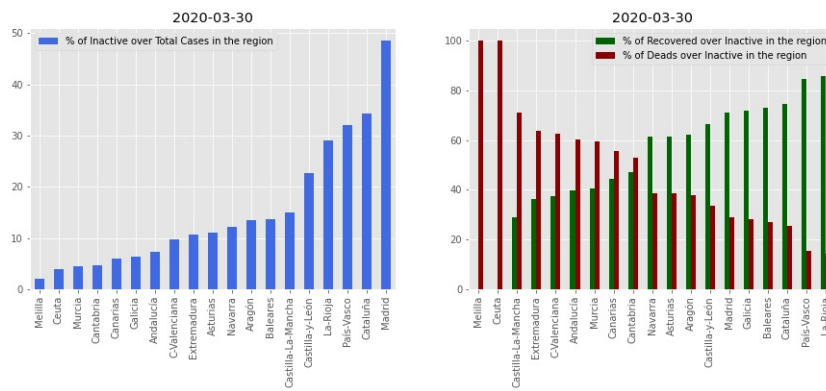with respect the day before

- New
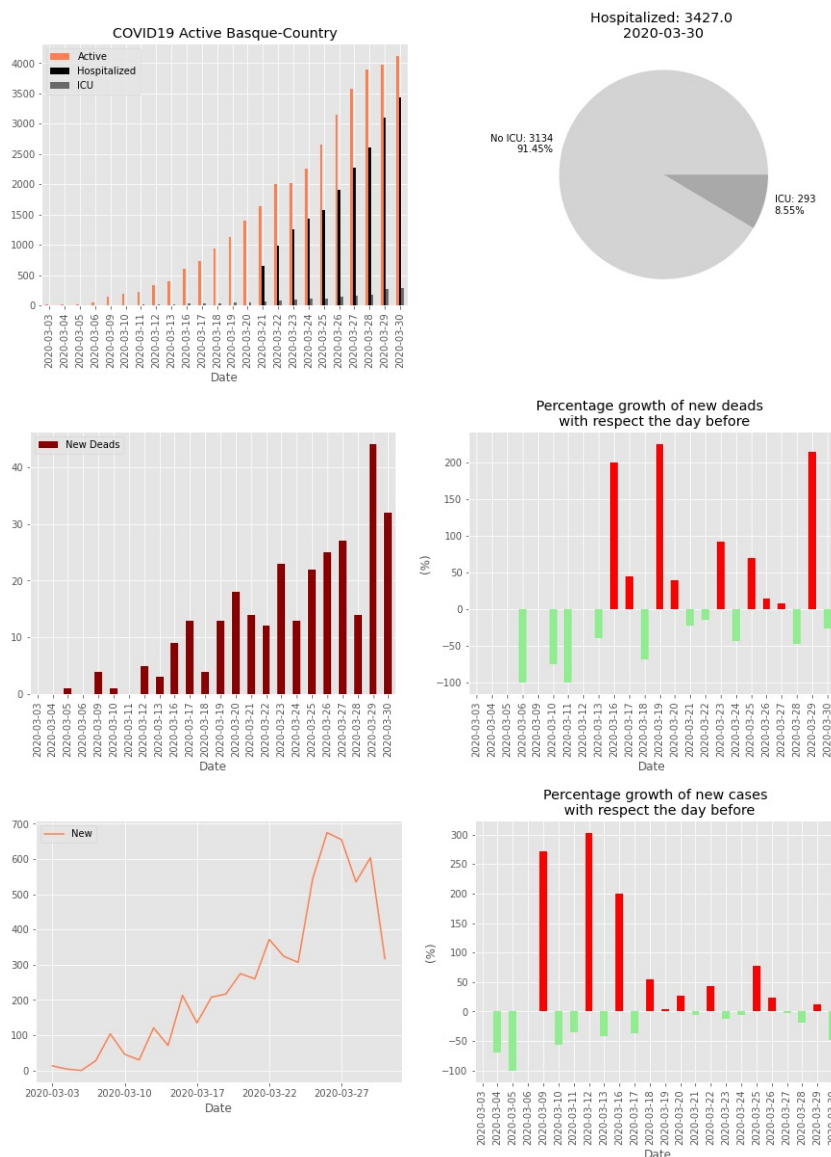
COVID19 compare regions¶

Autonomous Communities:

['Andalucía', 'Aragón', 'Asturias', 'Baleares', 'Canarias', 'Cantabria', 'Castilla-La-Mancha', 'Castilla-y-León', 'Cataluña', 'Ceuta', 'C-Valenciana', 'Extremadura', 'Galicia', 'Madrid', 'Melilla', 'Murcia', 'Navarra', 'País-Vasco', 'La-Rioja']

In an attempt to stop COVID19, **loockdown** measures were stablished the 2020-3-14. Since then, COVID19 is hitting the society and its **Universal Health-Care System** severelly. The Political-&-Administrative model in Spain delegates to the Autonomous Communities the management of the Health-Care System in each region. Thus, analysing and comparing the progress of the COVID19 pandemia by Autonomous Communities makes sense.

- The **% of Inactive Cases over Total Cases in the region** gives a measure about **how close** an Autonomous Community is to defeat COVID19. While **high** percentages indicate that the Autonomous Communities are about to end with COVID19, **low** percentages show the opposite. In any case, this values are only a *proximity* indicator towards the end of the COVID19 crisis and **can not be used to state how well Autonomous Communities Health-Care Systems are dealing with the infected population**.

- The **% of Recovered&Deads over Inactive Cases in the region** shows a picture of the Recovered-Dead ratio over Inactive cases at the present moment. This values must be treated just as "objetive-data" and **can not be used to compare how well or how badly Autonomous Communities Health-Care Systems are dealing with the infected population** since the scope of COVID19-Scenario differs in a large amount from region to region.

2020-03-30

2020-03-30

In order to understand the graph bellow watch: https://www.youtube.com/watch?v=54XLXg4fYsc

From 2020-03-03 to 2020-03-30