COVID19_France_Regions

April 10, 2022

1 Analyse brute des donnÃl'es quotidiennes publiques covid19 France et rÃl'gions

Dernier Rapport au format pdf sur le site github

[1]: run -i function.py

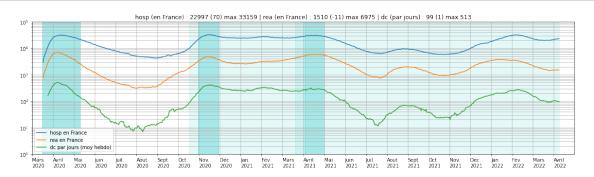
[2]: run -i load.py

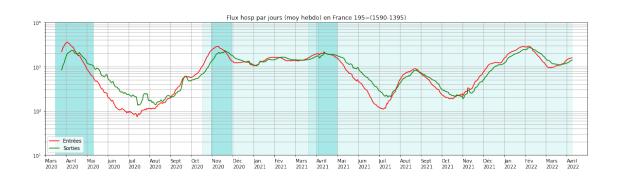
Read ./RawData/covid-hospit-clage10-2022-04-09-19h01.csv

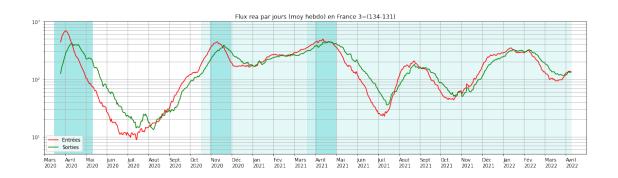
Read ./RawData/covid-hospit-incid-2022-04-09-19h01.csv

1.1 Chiffres des hospitalisations et des dÃl'cÃÍs (CumulÃl's en France)

[3]: DisplayFrance()



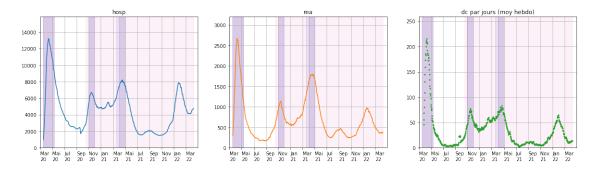




1.2 Chiffres des hospitalisations et des dÃl'cÃÍs (par rÃl'gions)

[]: for reg in region:
DisplayRegions(reg)

ILE DE FRANCE (0 Ãă 99+ ans)



CENTRE VAL DE LOIRE (O Ãă 99+ ans)



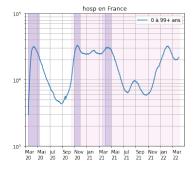
BOURGOGNE FRANCHE COMTE (0 Ãă 99+ ans)

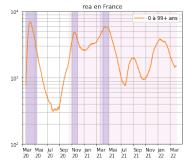
1.3 Chiffres des hospitalisations et des dÃl'cÃls (par tranches d'age)

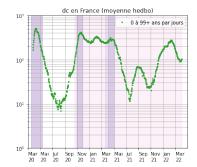
```
[10]: for clage in trancheage:
    DisplayAge(clage)
```

```
0 Ãă 99+ ans
```

Max hosp : 33159 | 1Ã1re Vague :31990 | 2Ã1me Vague :33159 |
Max rea : 6975 | 1Ã1re Vague : 6975 | 2Ã1me Vague : 5876 |
Max dc : 513 | 1Ã1re Vague : 513 | 2Ã1me Vague : 411 |
Total dc : 109909 | 1Ã1re Vague: 18618 | 2Ã1me Vague :91291 |



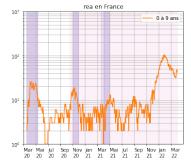


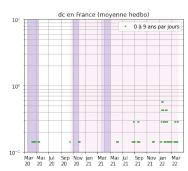


```
0 Ãă 9 ans
```

Max hosp : 593 | 1Ã1re Vague : 109 | 2Ã1me Vague : 593 |
Max rea : 105 | 1Ã1re Vague : 26 | 2Ã1me Vague : 105 |
Max dc : 0 | 1Ã1re Vague : 0 | 2Ã1me Vague : 0 |
Total dc : 26 | 1Ã1re Vague : 3 | 2Ã1me Vague : 23 |



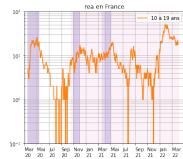


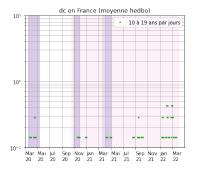


10 Ãă 19 ans

498 | 1Ãĺre Vague : 89 | 2Ãĺme Vague : hosp : 498 | Max 52 | 1Ãĺre Vague : 26 | 2Ãĺme Vague : Max 52 I rea : 0 | 1Ãĺre Vague : 0 | 2Ãĺme Vague : Max dc 0 | 22 | 1Ãĺre Vague: 3 | 2Ãĺme Vague : Total dc 19 |

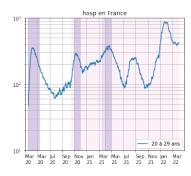


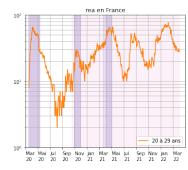


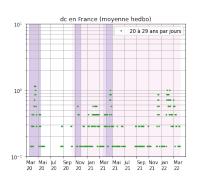


20 Ãă 29 ans

868 | 1ÃÍre Vague : 357 | 2ÃÍme Vague : 868 I Max hosp: 77 | 1Ãĺre Vague : 66 | 2Ãĺme Vague : Max 77 | rea : 1 | 1Ãĺre Vague : 1 | 2Ãĺme Vague : Max 1 | dc 123 | 1Ãĺre Vague: 19 | 2Ãĺme Vague : 103 | Total dc

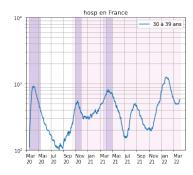


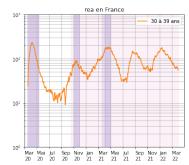


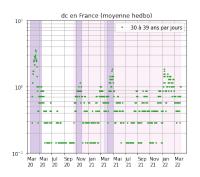


30 Ãă 39 ans

Max hosp : 1264 | 1Ãíre Vague : 923 | 2Ãíme Vague : 1264 |
Max rea : 233 | 1Ãíre Vague : 233 | 2Ãíme Vague : 184 |
Max dc : 3 | 1Ãíre Vague : 3 | 2Ãíme Vague : 1 |
Total dc : 392 | 1Ãíre Vague: 88 | 2Ãíme Vague : 303 |

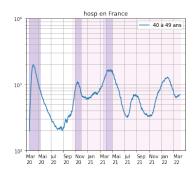


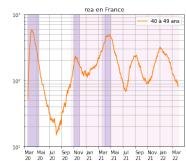


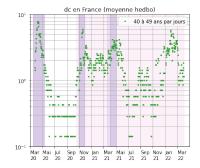


40 Ãă 49 ans

Max hosp : 2001 | 1ÃÍre Vague : 2001 | 2ÃÍme Vague : 1683 |
Max rea : 586 | 1ÃÍre Vague : 586 | 2ÃÍme Vague : 497 |
Max dc : 7 | 1ÃÍre Vague : 7 | 2ÃÍme Vague : 5 |
Total dc : 1159 | 1ÃÍre Vague: 228 | 2ÃÍme Vague : 931 |

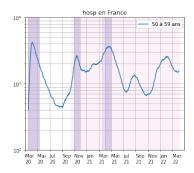




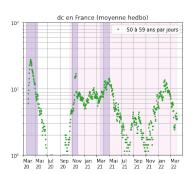


50 Ãă 59 ans

Max hosp : 4221 | 1Ã1re Vague : 4221 | 2Ã1me Vague : 3663 | Max rea : 1519 | 1Ã1re Vague : 1519 | 2Ã1me Vague : 1189 | Max dc : 27 | 1Ã1re Vague : 27 | 2Ã1me Vague : 16 | Total dc : 4129 | 1Ã1re Vague: 884 | 2Ã1me Vague : 3245 |



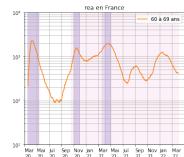


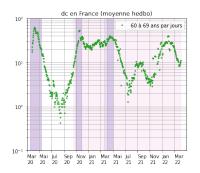


60 Ãă 69 ans

Max hosp : 6210 | 1Ã1re Vague : 6210 | 2Ã1me Vague : 5987 |
Max rea : 2307 | 1Ã1re Vague : 2307 | 2Ã1me Vague : 1969 |
Max dc : 62 | 1Ã1re Vague : 62 | 2Ã1me Vague : 54 |
Total dc : 12385 | 1Ã1re Vague: 2214 | 2Ã1me Vague : 10171 |

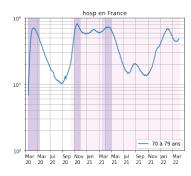


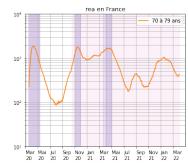


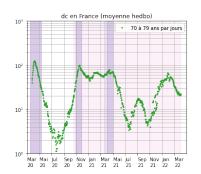


70 Ãă 79 ans

Max hosp : 8223 | 1Ãíre Vague : 7096 | 2Ãíme Vague : 8223 | Max rea : 1882 | 1Ãíre Vague : 1882 | 2Ãíme Vague : 1797 | Max dc : 125 | 1Ãíre Vague : 125 | 2Ãíme Vague : 100 | Total dc : 24834 | 1Ãíre Vague: 4168 | 2Ãíme Vague :20666 |

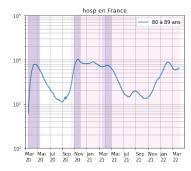




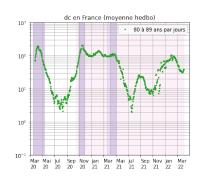


80 Ãă 89 ans

Max hosp : 10267 | 1Ã1re Vague : 7886 | 2Ã1me Vague :10267 |
Max rea : 458 | 1Ã1re Vague : 303 | 2Ã1me Vague : 458 |
Max dc : 209 | 1Ã1re Vague : 197 | 2Ã1me Vague : 209 |
Total dc : 41410 | 1Ã1re Vague: 6843 | 2Ã1me Vague :34567 |



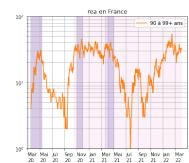


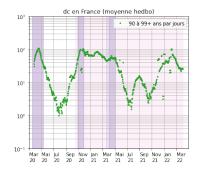


90 Ãă 99+ ans

Max hosp : 4935 | 1Ã1re Vague : 4324 | 2Ã1me Vague : 4935 |
Max rea : 54 | 1Ã1re Vague : 31 | 2Ã1me Vague : 54 |
Max dc : 109 | 1Ã1re Vague : 109 | 2Ã1me Vague : 104 |
Total dc : 24877 | 1Ã1re Vague: 4066 | 2Ã1me Vague : 20811 |







[7]: CreateReport() PushCommit()

2 Sources de donnÃl'es

https://www.data.gouv.fr/fr/datasets/donnees-hospitalieres-relatives-a-lepidemie-de-covid-19/

3 MÃľthodologie

- Traitement du fichier de donnÂl'es brutes.
- ReprÃl'sentation des moyennes hebdomadaires comme donnÃl'es de base lissÃl'es.
- Affichage des diffÄl'rentes pÄl'riodes de couvre-feu et confinement.
- Versionning du dÃl'pÃt't pour la traÃğabilitÃl' et la reproductibilitÃl' sur un dÃl'pÃt't public
- Interface pour les commentaires via github.

4 Quelques liens

- Euromomo (EuroMOMO is a European mortality monitoring activity, aiming to detect and measure excess deaths related to seasonal influenza, pandemics and other public health threats.) https://www.euromomo.eu/graphs-and-maps/
- CÃl'piDc (Centre d'Āl'pidĀl'miologie sur les causes mÃl'dicales de DÃl'cÃls) https://opendata.idf.inserm.fr/cepidc/covid-19/index.html
- Avis de scientifiques CNRS, INSERM, Institut Pasteur, INRA, UniversitÂl'. Equipe bÃl'nÃl'vole et indÃl'pendante https://www.adioscorona.org/
- FranceInfo: "Suivez l'Ãl'volution de l'Ãl'pidÃl'mie en France et dans le monde" https://www.francetvinfo.fr/sante/maladie/coronavirus/infographies-covid-19-morts-hospitalisations-age-malades-l-evolution-de-l-epidemie-en-france-et-dans-le-monde-en-cartes-et-graphiques.html
- le suivi des variants en angleterre https://www.gov.uk/government/publications/covid-19-variants-genomically-confirmed-case-numbers/
- Un exemple de modÃl'lisation Ãl'pidÃl'mique par infÃl'rrence https://cloudapps.france-bioinformatique.fr/covidici/

5 Quelques refÃl'rences bibliographiques

- "Evaluation des stratÃl'gies vaccinales COVID-19 avec un modÃlle mathÃl'matique populationnel" CÃl'cile Kiem, ClÃl'ment Massonnaud, Daniel Levy-Bruhl, Chiara Poletto, Vittoria Colizza, et al. 2020. pasteur-03087143 (23/12/2020)
- "Evolution of outcomes for patients hospitalized during the first SARS-CoV-2 pandemic wave in France. 2020.", NoÃl'mie Lefrancq, Juliette Paireau, NathanaÃnl HozÃl', NoÃl'mie Courtejoie, Yazdan Yazdanpanah, et al. hal-02946545 (23/09/2020)

- "Seroprevalence of SARS-CoV-2 among adults in three regions of France following the lock-down and associated risk factors: a multicohort study." Carrat et al. 2020
- "Ready for a BASE jump? Do not neglect SARS-CoV-2 hospitalization and fatality risks in the middle-aged adult population" Lapidus et al, 2020 (07/11/2020)
- "Estimated date of dominance of VOC-202012/01 strain in France and projected scenarios" Sabbatini et al, 2021 (All reports available here)

5.1 Code Source et donnÂl'es

- function.py
- load.py
- DonnÃl'es dans le repertoire local /RawData

| []:[| |
|------|--|
| []:[| |