

Class5_20230323_DataVisualization_Apichat

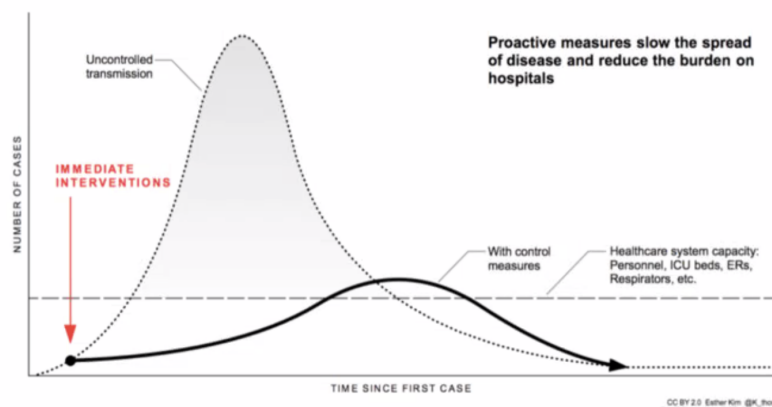
Apichat Photi-A

2023-03-23

Reference: <https://podio.com/site/creative-routines>

'Flattening the Curve'

LOWER AND DELAY THE EPIDEMIC PEAK



(Lundgard & Satyanarayan, 2022)

Figure 1: Flattening the curve

How do we incorporate these accessibility goals into our data viz practices>

##Colour Check the color blindness ref: <https://www.color-blindness.com/coblis-color-blindness-simulator/>

```
#install.packages("viridis")
library(viridis)
```

```
## Loading required package: viridisLite
```

```
##Text - Labels and legends - Fonts and typefaces
```

Reference: <https://podio.com/site/creative-routines>

Level 1 *Focus on chart elements such as chart type, title, axis ranges, labels, colours*

Four types of descriptive content

| Level | Semantic Content and Keywords |
|-------|--|
| 1 | <ul style="list-style-type: none"> Focus on chart elements such as chart type, title, axis ranges, labels, colours |
| 2 | <ul style="list-style-type: none"> Descriptive statistics (eg. mean), outliers, max and min points, correlations, comparing points |
| 3 | <ul style="list-style-type: none"> Complex trends, pattern synthesis, clusters, exceptions, common concepts Perceptual interpretations of the data |
| 4 | <ul style="list-style-type: none"> Context and domain insights, social and political context and explanations Subjective interpretations that go beyond the data |

(Lundgard & Satyanarayan, 2022)

Figure 2: Descriptive content

- The chart shows the daily routine of the famous people classify by SLEEP, CREATIVE, WORK, DAY JOB/ADMIN, FOOD/LEISURE, EXERCISE and OTHER.

Level 2 *Descriptive statistics (eg. mean), outliers, max and min points, correlations, comparing points*

- By choosing the filter on each color, you can compare the amount of time each artist was spending on each of these activity per day. Also, you can check what hours of the day was they preferred time for that activity.

Level 3 *Complex trends, pattern synthesis, clusters, exceptions, common concepts Perceptual interpretations of the data*

- There do not appear to be large trends amongst the different creative people in terms of the structure of their days. The one thing that appears common is that most of the creative people did not appear to have a day job, although 6 people, including Freud, Vonnegut and Kafka, spent considerable time in their day jobs. There was a great diversity in the pattern of time spent for creative work vs. leisure and other time.
- For this level we can go to details of daily activity of each artist and compare it with others, such as who slept the longest or the amount of time they spend on creative work versus day job.

Level 4 *Context and domain insights, social and political context and explanations Subjective interpretations that go beyond the data*

- For this level we can go to details of daily activity of each artist and compare it with others, such as who slept the longest or the amount of time they spend on creative work versus day job.

THE DAILY ROUTINES OF FAMOUS CREATIVE PEOPLE

Turns out great minds don't think alike. Discover how some of the world's most original artists, writers and musicians structured their day, based on 'Daily Rituals' by Mason Currey. Filter the different categories by toggling on or off, and hover over the colored bars to learn more about the daily routines.

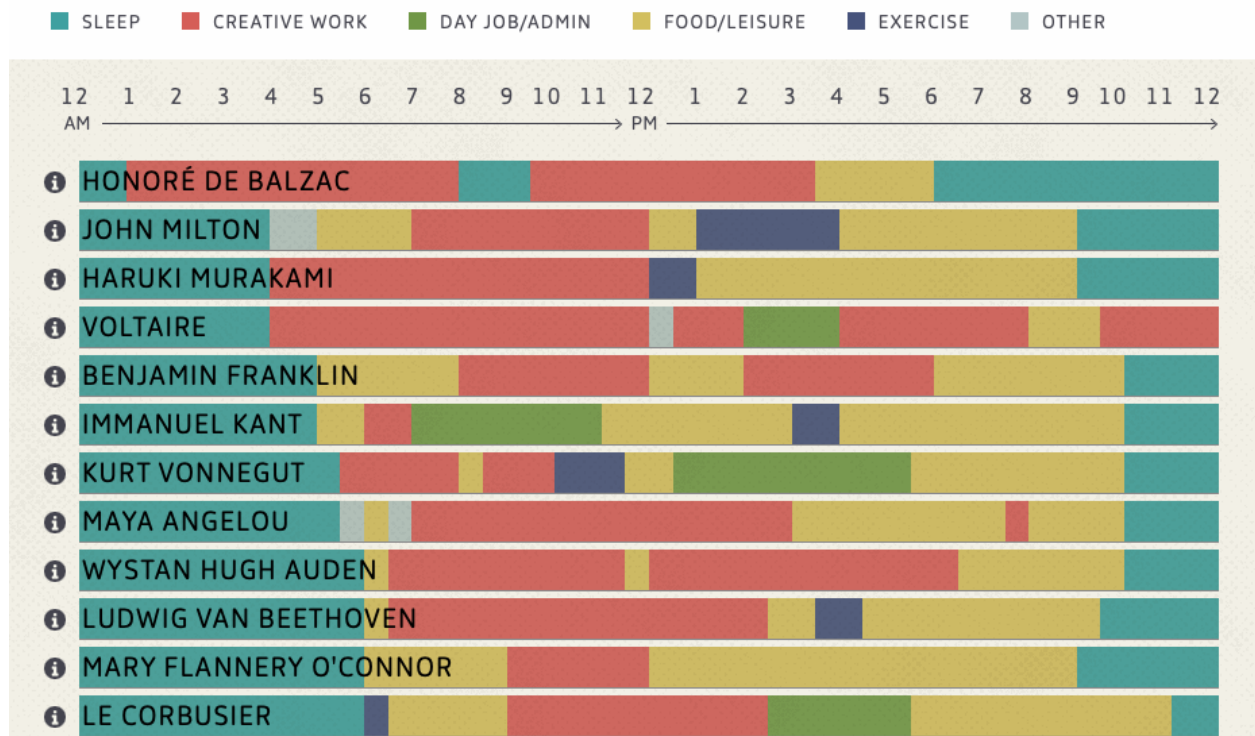


Figure 3: Activity

##Can people actually access our data visualizations? Cross-browser functionality - This is especially important in some professional contexts, where browser use may be limited/regulated Cost and accessibility
- To maximize the accessibility of our data products, we can consider:

Open Access (Per University of BC Libraries , “a range of practices through which research outputs are distributed online, free of cost or other access barriers”)

Creative Commons licenses (standard and simple licenses to facilitate sharing and reuse of work)

Reference: <https://a11y.canada.ca/en/guides/> Reference: Accessibility: https://www.rgd.ca/database/files/library/RGD_AccessAbility2_Handbook_2021_09_28.pdf