



Lecture #08

Data Aggregation

March 2020

TOTAL CONFIRMED CASES

● Active cases 96,622

- Recovered cases 79,867

● Fatal cases 7,170





Podcasts
Listen 

Ad 



Health

Why outbreaks like coronavirus spread exponentially, and how to “flatten the curve”

By **Harry Stevens** March 14, 2020

<https://www.washingtonpost.com/graphics/2020/world/corona-simulator/>

Covid-19, your community, and you – a data science perspective

Written: 09 Mar 2020 by *Jeremy Howard and Rachel Thomas*

We are data scientists—that is, our job is to understand how to analyze and interpret data. When we analyze the data around covid-19, we are very concerned. The most vulnerable parts of society, the elderly and the poor, are most at risk, but controlling the spread and impact of the disease requires us *all* to change our behavior. Wash your hands thoroughly and regularly, avoid groups and crowds, cancel events, and don't touch your face. In this post, we explain why we are concerned, and you should be too. For an excellent summary of the key information you need to know, read [Corona in Brief](#) by Ethan Alley (the president of a non-profit that develops technologies to reduce risks from pandemics).

Translations

Anyone is welcome to translate this article, to help their local communities understand these issues. Please link back to here with appropriate credit. Let us know on [Twitter](#) so we can add your translation to this list.

- [Italian](#)
- [Greek](#)
- [French](#)
- [Spanish](#)

fast.ai

Making neural nets
uncool again

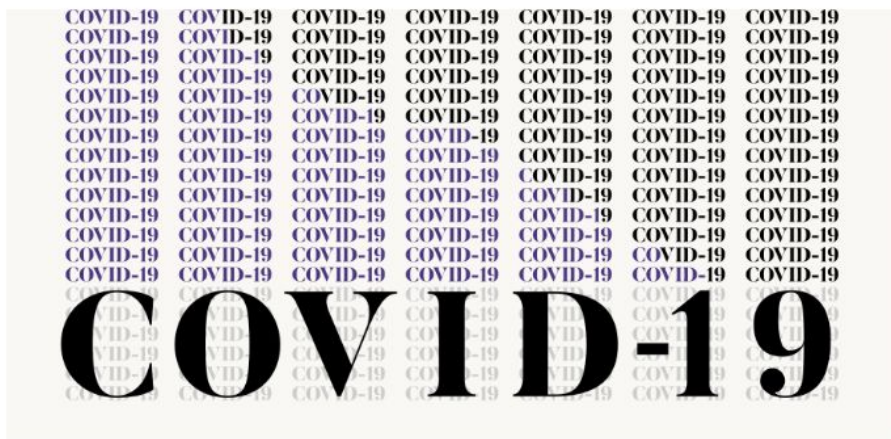
[Home](#)

[About](#)

[Our MOOC](#)

[Posts by Topic](#)

© fast.ai 2020. All rights reserved.



Ten Considerations Before You Create Another Chart About COVID-19

To sum it up — #vizresponsibly; which may mean not publishing your visualizations in the public domain at all



Amanda Makulec

Follow

Mar 11 · 9 min read





Access the data



.Hyper File

- [Direct Download](#)
- Refreshed daily by 9:00am EST
- You can direct download a .hyper file from data.world, which takes advantage of the improved data engine, supporting faster analytical and query performance for larger data sets.

.CSV File

- [Direct Download | Link for Web Data Connector](#)
- Refreshed daily by 9:00am EST
- You can direct download a .CSV file from data.world. You can also leverage data.world's web data connector to allow you to easily pull data directly into Tableau to create visualizations.

Google Sheet

- [View in Google Sheets](#)
- Refreshed daily by 9:00am EST
- When using the Google Sheets connector, vizes hosted on Tableau Public are refreshed once per day. Note: Google Sheets may experience periodic outages during times of peak usage.

[Step-by-Step Instructions for All Data Sources](#)

Introduction to Pandas

Exploring Data with Pandas

Data Cleaning Basics

<<Project 01>>

Data Aggregation

Combining Data with Pandas

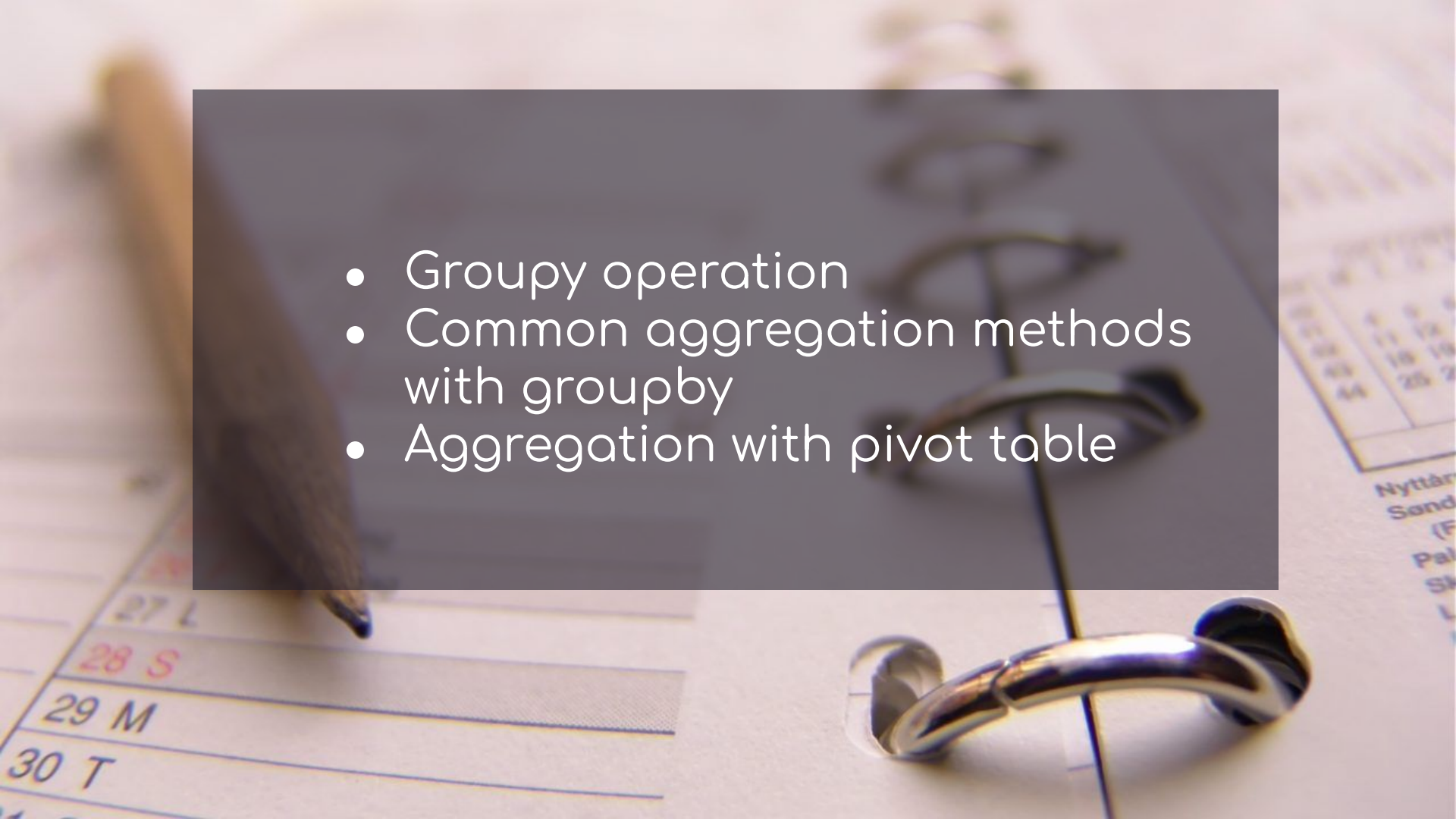
Transforming Data with Pandas

Working with String in Pandas

Regular Expression

Working with missing and duplicate data

<<Project 02>>

- 
- A spiral-bound notebook is shown from a top-down perspective. A dark pen lies diagonally across the left side of the notebook. The background shows a calendar page with dates 27 L, 28 S, 29 M, and 30 T. To the right, there is a small table with numbers and some text in Swedish, including 'Nyttår', 'Sond', '(F', 'Pal', 'Sk', and 'L'. The notebook's metal spiral binding is visible on the right side.
- Groupy operation
 - Common aggregation methods with groupby
 - Aggregation with pivot table

Update from repository

```
git clone https://github.com/ivanovitchm/datascience2020
```

Or

```
git pull
```



- Home
- Compete
- Data
- Notebooks
- Discuss
- Courses
- More

Dataset

1570

World Happiness Report

Happiness scored according to economic production, social support, etc.

Sustainable Development Solutions Network

• updated 4 months ago (Version 2)

Data

Tasks (1)

Kernels (614)

Discussion (8)

Activity

Metadata

Download (79 KB)

New Notebook

Usability 8.5

License

CC0: Public Domain

Tags

arts and entertainment, statistics, reference, economics, social sciences and 4 more

Description

Context

The World Happiness Report is a landmark survey of the state of global happiness. The first report was published in 2012, the second in 2013, the third in 2015, and the fourth in the 2016 Update. The World Happiness 2017, which ranks 155 countries by their happiness levels, was released at the United Nations at an event celebrating International Day of Happiness on March 20th. The report continues to gain global recognition as governments, organizations and civil society increasingly use happiness indicators to inform their policy-making decisions. Leading experts across fields – economics, psychology, survey analysis, national statistics, health, public policy and more – describe how measurements of well-being can be used effectively to assess the progress of nations. The reports review the state of happiness in the world today and show how the new science of happiness explains personal and national variations in happiness.

Lecture #08 - Data Aggregation.ipynb

