- Dashboarding

- Fast & beautiful

- easy to use for non-programmers

Microsoft Excel $\longrightarrow$ data analysis & plotting

$\hookrightarrow$ historical context

Tableau $\longrightarrow$ This can be done better/faster

& beautiful

$\hookrightarrow$ 2003, Pat Hanrahan (Stanford)

Tableau :

Tableau Desktop → Professional ~$2000

→ Personal ~$800 → $1000/yr

Tableau Server → Costlier [inhouse server]

** Tableau Public → free with most of the functionality to learn

Tableau Product Suite

Annotations: read Tableau files → (points to Reader)
Public → (bracket over Public column)
Cloud-based → (points to Online)

	Desktop		Reader	Server	Public	Online
	Personal	**Professional**				
Details	- Local client for building dashboards - Limited data sources, no ability to connect to Tableau Server	- Local client for building dashboards - Full enterprise capabilities	- Local client to view and interact with local files - Unable to modify workbooks or connect to server	- Privately managed Tableau Server (may be on premise or service hosted) - Users may directly interact with dashboards via browser	- Essentially a massive, public non-commercial Tableau server - All data published is public - Free client available to create dashboards	- Private version of Tableau Public eliminates need for infrastructure - Live connections currently only possible with Google BigQuery and Amazon Redshift
OS	🪟	🪟	🪟	🪟	N/A	N/A
License	$999	$1,999	Free	Named User or Core Licensing	Free	$500/user per year

John Mathis

Source: John Mathis on Quora

Tableau vs Python

→ Customization

→ Speed

→ Skills needed

→ Careers

→ where to use what?

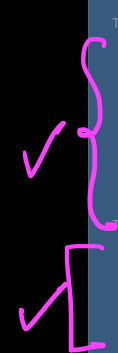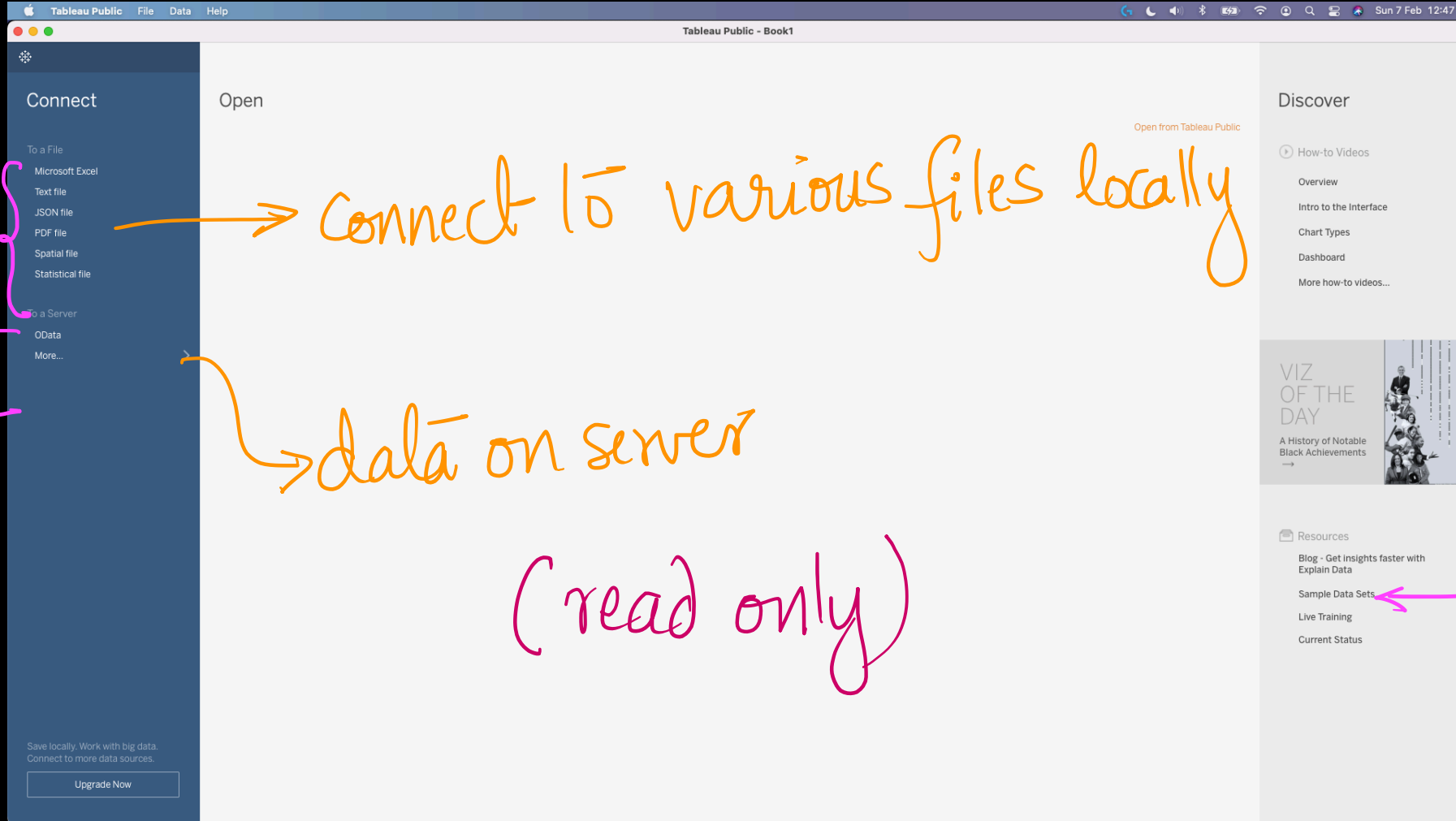→ advanced data -viz
(high dim -data)

APPLIED ROOTS

Connect

Open

To a File
- Microsoft Excel
- Text file
- JSON file
- PDF file
- Spatial file
- Statistical file

To a Server
- OData
- More...

Open from Tableau Public

Discover

How-to Videos
- Overview
- Intro to the Interface
- Chart Types
- Dashboard
- More how-to videos...

VIZ OF THE DAY
A History of Notable Black Achievements

Resources
- Blog - Get insights faster with Explain Data
- Sample Data Sets
- Live Training
- Current Status

Save locally. Work with big data. Connect to more data sources.

Upgrade Now

→ Connect to various files locally

→ data on server

(read only)

Sample Data

→ Data Source [CO_2 data]

→ Column Types: Geo, numeric, - - -

→ Automated plot picker (type) ⟶ Plotting in detail

→ Publish to Tableau Public Profile.

Data Interpreter :

$\rightarrow$ Auto fix Issues [CO_2 per capita Raw data]

Pivots [CO_2 raw data]

Split a column [CO_2 for split]

Joins & Unions [CO_2 per capita Pivoted & CO_2 pivoted]
(SQL-like]

Data &
How-To videos }

https://public.tableau.com/en-us/s/resources