# Shut it down!

A dashboard and data repository of ICE immigrant detention/enforcement data

### Background

The US immigrant detention system has grown 5-fold in the past 2 decades.

Research shows detention causes serious and long-term harm to those who are detained, their families, and the broader communities.

Data is necessary to drive actionable policies.



As activists push forward campaigns to close specific facilities, our inability to predict the impact of shifts in detention capacity presents real problems.

ICE detention data is not easily accessible. After years of litigation under FOIA, the University of Washington Center for Human Rights (UWCHR) is now obtaining the records that will make it possible to conduct the first national study of the impacts of detention on communities.

https://www.americanimmigrationcouncil.org/research/landscape-immigration-detention-united-states

### **Data**

Data: courtesy of the University of Washington's Center for Human Rights

Through numerous FOIA requests and litigation, UW's Center for Human Rights has obtained dozens of datasets spanning roughly 2010-2020 related to ICE immigrant detention and enforcement records from across the US. Datasets include variables on detention facilities, law enforcement, and bond rates.

Challenge: Most of the datasets are incomplete, messy, and do not include codebooks. Some detective work and a lot of data cleaning + manipulation is necessary to properly interpret and analyze the data.

aor	apprehension_date	apprehension_method	apprehension_landmark	operation	processing_disposition	citizenship	gender	id
SPM	10/1/15	Probation and Parole	OMAHA NE NON-FUGITIVE ARREST		REINSTATEMENT OF DEPORT ORDER I-871	MEXICO	Male	0
CHI	10/1/15	Non-Custodial Arrest	CHI GENERAL AREA, NON-SPECIFIC		Bag and Baggage	GUATEMALA	Male	1
LOS	10/1/15	CAP State Incarceration	CALIFORNIA MENS COLONY WEST		Other	LAOS	Male	2

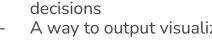




#### Researchers:

- Trends in immigrant detention enforcement and facilities over the last 10 years to answer questions about the impact of shifts in detention on communities
- Visualize certain trends and pull out data so they can use/work on it on their own without having to go through ICE

### Policymakers/Advocates



- A way to output visualizations
- Easy drop down menus to change relevant variables (years, citizenship, various demographics)
- Less technical, clear and easy to use interface without having to go through ICE and do the analysis themselves

Visualize trends in order to get summary level statistics in order to make broad policy

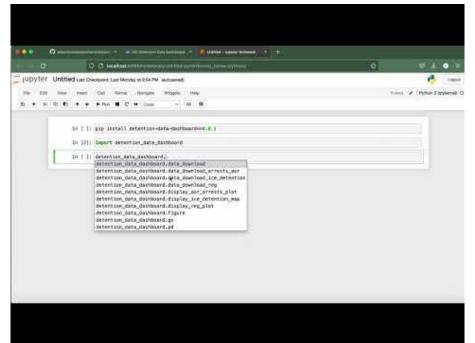


# Demo

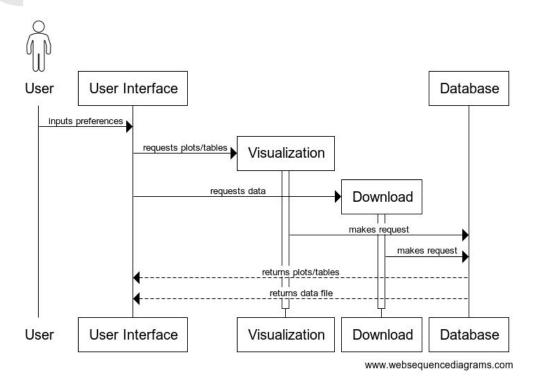
### **Dashboard**



### pip install



## Design and Technologies Employed



#### Plotly Dash

- User Interface
- Visualization
- Download

#### Git LFS

- Database

#### Heroku

Webpage hosting

### **Project structure**

```
- LICENSE

    Procfile

README.md
— арр.ру
assets
 └─ style.css
- data
- detention_data_dashboard
  ├─ __init__.py
    — __pycache__
      ___init__.cpython-310.pyc
      — data_download.cpython-310.pyc
     figure.cpython-310.pyc
   — data_download.py
   — data_exploration
   — figure.py
    – tests
      ___init__.py
      — test_data_download.py
      test_figure.py
     └─ test images
- doc
   software_design.md
  └─ tech_reviews
     ├─ Tech\ Review\ -\ Web\ Development\ Apps\ for\ Python.txt
     └─ Technology\ Review\ -\ Dashboards\ in\ Python.pptx
environment.yml
requirements.txt
- runtime.txt
setup.py
```

# Lessons learned & Future work

Dashboard lacking in terms of visualization

because the data still needs a lot of work

Budget time for cleaning data:

- Accessing data is not enough.
- Having **cleaned and available data early** on allows for

the initial software design to be done with confidence.

#### WE PAID FOR GIT LFS!

Communicate clearly about <u>roles and responsibilities</u>:

- **Clear communication** around the design allows for the project to leverage the benefits of test-driven development

Use git branches from the start for collaboration, use pull requests as well

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