

This is a dataset of Assisted Living, Nursing and Residential Care facilities in Oregon, open as of September, 2016. For each, we have:

Data were munged [here](https://github.com/TheOregonian/long-term-care-db/blob/master/notebooks/transformation/mung-3-29-scrape.ipynb) (<https://github.com/TheOregonian/long-term-care-db/blob/master/notebooks/transformation/mung-3-29-scrape.ipynb>).

1. *facility_id*: Unique ID used to join to complaints
2. *fac_ccmunumber*: Unique ID used to join to ownership history
3. *facility_type*: NF - Nursing Facility; RCF - Residential Care Facility; ALF - Assisted Living Facility
4. *fac_capacity*: Number of beds facility is licensed to have. Not necessarily the number of beds facility does have.
5. *facility_name*: Facility name at time of September extract.
6. *offline*: created in munging notebook, a count of complaints that DO NOT appear when facility is searched on state's [complaint search website](https://apps.state.or.us/cf2/spd/facility_complaints/) (https://apps.state.or.us/cf2/spd/facility_complaints/).
7. *online*: created in munging notebook, a count of complaints that DO appear when facility is searched on state's [complaint search website](https://apps.state.or.us/cf2/spd/facility_complaints/) (https://apps.state.or.us/cf2/spd/facility_complaints/).

```
In [91]: import pandas as pd
import numpy as np
from IPython.core.display import display, HTML
display(HTML("<style>.container { width:100% !important; }</style>"))
```

```
In [92]: df = pd.read_csv('../data/processed/facilities-3-29-scrape.csv')
```

How many facilities are there?

```
In [93]: df.count()[0]
```

```
Out[93]: 642
```

How many facilities have accurate records online?

Those that have no offline records.

```
In [94]: df[(df['offline'].isnull())].count()[0]
```

```
Out[94]: 59
```

How many facilities have inaccurate records online?

Those that have offline records.

```
In [95]: df[(df['offline'].notnull())].count()[0]
```

```
Out[95]: 583
```

How many facilities had more than double the number of complaints shown online?

```
In [96]: df[(df['offline']>df['online']) & (df['online'].notnull())].count()[0]
```

```
Out[96]: 358
```

How many facilities show zero complaints online but have complaints offline?

```
In [97]: df[(df['online'].isnull()) & (df['offline'].notnull())].count()[0]
```

```
Out[97]: 59
```

How many facilities have complaints and are accurate online?

```
In [98]: df[(df['online'].notnull()) & (df['offline'].isnull())].count()[0]
```

```
Out[98]: 16
```

How many facilities have complaints?

```
In [99]: df[(df['online'].notnull()) | df['offline'].notnull()].count()[0]
```

```
Out[99]: 599
```

What percent of facilities have accurate records online?

```
In [100]: df[(df['offline'].isnull())].count()[0]/df.count()[0]*100
```

```
Out[100]: 9.1900311526479754
```

What is the total capacity of all facilities with inaccurate records?

```
In [101]: df[df['offline'].notnull()].sum()['fac_capacity']
```

```
Out[101]: 35129.0
```

How many facilities appear to have no complaints, whether or not they do?

```
In [102]: df[df['online'].isnull()].count()[0]
```

```
Out[102]: 102
```

What are the ten facilities with >50 complaints that have the highest disparities?

For graphics

```
In [114]: over_50 = df[((df['offline']+df['online'])>50)]
```

```
In [115]: over_50['total'] = over_50['online']+over_50['offline']
```

```
/Users/fzarkhin/anaconda/lib/python3.5/site-packages/ipykernel/__main__.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html#indexing-view-versus-copy
if __name__ == '__main__':
```

```
In [116]: over_50['pct_offline'] = over_50['offline']/over_50['total']*100
```

```
/Users/fzarkhin/anaconda/lib/python3.5/site-packages/ipykernel/__main__.py:1:
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```
See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/indexing.html#indexing-view-versus-copy
if __name__ == '__main__':
```

```
In [117]: over_50[over_50['facility_name']=='Avamere Health Services of Rogue Valley']
```

```
Out[117]:
```

	facility_id	fac_ccmunumber	facility_type	fac_capacity	facility_name	offline	online	total	p
4	385024	385024	NF	91.0	Avamere Health Services of Rogue Valley	67.0	27.0	94.0	7

```
In [118]: over_50.sort_values('pct_offline',ascending = False).head(10)
```

```
Out[118]:
```

	facility_id	fac_ccmunumber	facility_type	fac_capacity	facility_name	offline	online	total
50	385166	385166	NF	165.0	Maryville Nursing Home	53.0	12.0	65.0
78	385219	385219	NF	93.0	Care Center East Health & Specialty Care Center	63.0	16.0	79.0
45	385157	385157	NF	114.0	Life Care Center Of Coos Bay	74.0	21.0	95.0
63	385190	385190	NF	78.0	Prestige Post- Acute and Rehabilitation Center-...	50.0	15.0	65.0
34	385143	385143	NF	118.0	Umpqua Valley Nursing & Rehabilitation Center	55.0	17.0	72.0
144	50A263	50A263	RCF	59.0	Brookdale Bend	40.0	13.0	53.0
23	385120	385120	NF	121.0	Valley West Health Care Center	55.0	20.0	75.0
113	385270	385270	NF	96.0	Prestige Post- Acute and Rehabilitation Center ...	50.0	19.0	69.0
4	385024	385024	NF	91.0	Avamere Health Services of Rogue Valley	67.0	27.0	94.0
27	385132	385132	NF	148.0	Avamere Rehabilitation of King City	36.0	15.0	51.0

```
In [ ]:
```