A look at contractors

The ContractorCompanyName needed cleaning in some instances, so I took a version of the data-processed/demolitions_full.csv into Open Refine, created a new column ContractorNameClean and used facets to clean it. I exported it as openrefine/contrator_clean.csv and saved the steps as openrefine/contractor_clean.json.

```
In [1]:
         import pandas as pd
         import altair as alt
        # Column type fixes
In [2]:
         column types = {
             'ApplicantPhone': pd.np.str,
             'ContractorPhone': pd.np.str,
             'CalendarYearIssued': pd.np.str,
             'OriginalZip': pd.np.str,
         }
         # import raw data
         data raw = pd.read csv(
              ../openrefine/contractor_clean.csv',
             index col=None,
             dtype=column_types,
             parse_dates=['IssuedDate']
         )
         demolitions = data_raw
         demolitions.shape
Out[2]: (3165, 70)
```

Most permits by contractor

```
In [3]:
        demolitions.ContractorNameClean.value_counts().head(10)
Out[3]: DAR Construction
                                                  569
        Southwest Destructors****MAIN***
                                                  235
        Building Abatement Demolition Co Inc
                                                  104
        AAR Inc.
                                                   84
                                                   73
        Absolute Demolition
                                                   72
        MX3 Investments
        Heart of Texas Demolition, LLC
                                                   40
        Pecan Valley Homes LLC***MAIN***
                                                   35
        Gossett and Jones Homes Inc.
                                                   31
        Paradisa Homes, LLC
                                                   31
        Name: ContractorNameClean, dtype: int64
```

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DAR Contruction over time

```
In [4]: # filter to just dar permits
         dar permits = demolitions[demolitions['ContractorNameClean'] == 'DAR Construct
         ion']
         dar permits.shape
Out[4]: (569, 70)
In [5]: dar_by_year = dar_permits.groupby(['CalendarYearIssued']).agg(dict(
             PermitNum='count'
         )).reset_index()
         dar_by_year.columns = ['Year', 'Count']
         dar_by_year
Out[5]:
             Year Count
          0 2008
                      5
          1 2009
                      5
          2 2010
                      9
          3 2011
                     15
          4 2012
                     39
          5 2013
                     66
          6 2014
                     86
          7 2015
                     97
          8 2016
                     93
            2017
                    108
         10 2018
                     46
```

Explore contractor by year

DAR Construction has led demolitions each year since 2011, sometimes by twice the next closest competitor.

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```
In [7]: # Look at top contractors each year
# change the year value to see other years
# DAR has lead by far since 2011
contractor_sorted[contractor_sorted.Year == '2018'].head(10)
```

Out[7]:

Year	Contractor	Count
2018	DAR Construction	46
2018	AAR Inc.	22
2018	Southwest Destructors****MAIN***	16
2018	Paradisa Homes, LLC	14
2018	Absolute Demolition	7
2018	Journeyman Construction	6
2018	MX3 Investments	5
2018	Austin Demolition DJ- Homes	4
2018	Joseph Builders LLC	4
2018	Pecan Valley Homes LLC***MAIN***	4
	2018 2018 2018 2018 2018 2018 2018 2018	DAR Construction AAR Inc. Southwest Destructors****MAIN*** Paradisa Homes, LLC Absolute Demolition Journeyman Construction MX3 Investments Austin Demolition DJ- Homes Joseph Builders LLC

In []:]:	
In []:]:	