

In [1]:

```
import pandas as pd
import seaborn as sns
%matplotlib inline

pd.options.display.max_columns = 70
pd.options.display.max_rows = 20

top10_data = pd.read_csv('top_avgs.csv', header = None)
top10_data = top10_data.transpose()

top10_data.columns = top10_data.iloc[0] # set column header
top10_data = top10_data.drop(0) # drop duplicated row
top10_data['cat'] = "top 10" # create top/overall cat

top10_data.rename(columns={'industry':'thermometer'}, inplace=True)

top10_data
```

```
//anaconda/lib/python2.7/site-packages/matplotlib/_init__.py:872: UserWarning: axes.color_cycle is deprecated and replaced with axes.prop_cycle; please use the latter instead:
  warnings.warn(self.msg_depr % (key, alt_key))
```

Out[1]:

	thermometer	health-care-hospitals-&-facilities	technology-electronics	health-care-pediatricians	financial-services-banks	retail-supermarkets	hospitality-&-travel-hotel-&-motel	automotive-automotive-other	health-care-medical-spa
1	a_weighted_rating	0.931020771926982	0.0	0.587885787435767	0.867467996518293	0.908065509583259	0.8413192311525	0.900077280363051	0.938852111111111
2	a_visibility	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	a_spread	0.617335886677156	0.0	0.523501512884964	0.579889454524509	0.820728591148252	0.460357559396216	0.615714720688416	0.384615384615385
4	a_volume	0.496222222233333	0.0	0.3304012345	0.385984375	0.849635416666667	0.3875308643	0.523703125	0.272727272727273
5	a_time	0.838095238095238	0.0	0.442857142857143	0.496428571428572	0.933333333333333	0.730714285714286	0.814285714285714	0.675675675675676
6	a_length	0.704302302486555	0.0	0.517558080355755	0.55557477353252	0.604292217532574	0.657943151712093	0.588272912159691	0.53030303030303
7	a_score	0.776027681306732	0.002926	0.473810847790358	0.670672088360924	0.863113797837331	0.687965226994607	0.766161110348789	0.686868686868687

In [2]:

```
overall_data = pd.read_csv('overall_avgs.csv', header = None)
overall_data = overall_data.transpose()

overall_data.columns = overall_data.iloc[0] # set column header
overall_data = overall_data.drop(0)
overall_data['cat'] = "overall"

overall_data.rename(columns={'industry':'thermometer'}, inplace=True)

overall_data
```

Out[2]:

	thermometer	health-care-home-care	technology-electronics	health-care-pediatricians	home-services-home-services-other	health-care-hospitals-&-facilities	restaurants-fine-dining	health-care-medical-spa
1	a_weighted_rating	0.144643575588216	0.0	0.41608559653665	0.41331091252378	0.302063266114629	0.412758957897844	0.162218779552737
2	a_visibility	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	a_spread	0.0587243322243375	0.0	0.193464381145018	0.348690868262723	0.112120592263985	0.134348339584236	0.281423611111111
4	a_volume	0.00577143220092915	0.0	0.0609603718790123	0.203987230215827	0.032071140581442	0.0117489984563362	0.155989583333333
5	a_time	0.0119047619047619	0.0	0.0987654320987655	0.27415210688592	0.0545479768110863	0.0246165931901323	0.238095238095238
6	a_length	0.116049294597626	0.0	0.399040225836235	0.433936012292623	0.248178507076674	0.426308600805718	0.39354781997187
7	a_score	0.0365762335757197	0.002926	0.147315635677167	0.293356145723742	0.0979580794528114	0.0873417771471193	0.154412966744452

In [3]:

```
result = top10_data.append(overall_data)

result
```

Out[3]:

	automotive-automotive-other	automotive-dealer	automotive-oem	automotive-parts	automotive-rental	automotive-repair-&-service	automotive-tires	beauty-beauty-other
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	automotive-automotive-other	automotive-dealer	automotive-oem	automotive-parts	automotive-rental	automotive-repair-&-service	automotive-retailer	beauty-beauty-other
1	0.900077280363051	0.93656851075	0.93656851075	0.93656851075	0.93656851075	0.93656851075	0.93656851075	0.93656851075
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.615714720688416	0.645533817547933	0.430656878232878	0.669681738927236	0.895515892902433	0.844846914556962	0.451436248682171	0.82431770833
4	0.523703125	0.874590002590003	0.4585185184	0.571953125	0.882546875	0.78578125	0.3620625	0.47065625
5	0.814285714285714	0.985281385281385	0.896428571428571	0.857142857142857	1.0	0.75	0.514285714285714	0.33928571428
6	0.588272912159691	0.688692212508998	0.555131251522663	0.671918518371856	0.590639291090113	0.715078222703223	0.375966291798548	0.76938718663
7	0.766161110348789	0.87863762476633	0.74712313478447	0.760715641281359	0.891105556357359	0.856199740416613	0.440963950977398	0.76035805855
1	0.340131118448247	0.493584366767061	0.456474712355501	0.279934225110714	0.530943818092149	0.477732477245566	0.337396593135036	0.40186575899
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.477117668736764	0.349932187256502	0.322681101922133	0.399514986596198	0.514603165882495	0.426975900602762	0.188148536308402	0.39956390019
4	0.171415530532321	0.222364595453344	0.211018883727811	0.197542580645161	0.149778566919192	0.153111641169425	0.0551773648648649	0.20012097167
5	0.24169837426496	0.233213556133716	0.348267117497887	0.26221198156682	0.244063692083494	0.168258461921354	0.101351351351351	0.21763392857
6	0.457646570228713	0.53656869791144	0.460475059671857	0.531390794271461	0.444597736507491	0.502156161009808	0.334590039432236	0.54334222462
7	0.245694287418702	0.324881997267841	0.319483246086473	0.236453904370233	0.335367244603244	0.291413383410963	0.113886557881152	0.29058945898

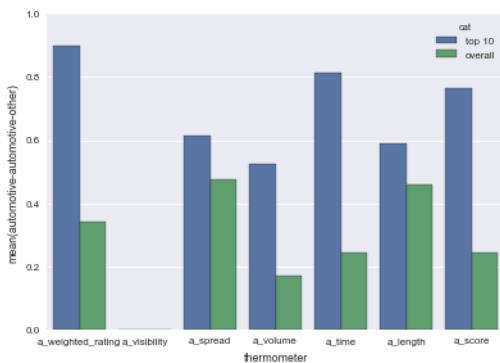
In [4]:

```
import matplotlib.pyplot as plt

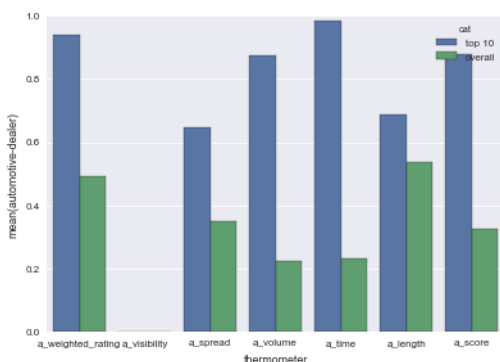
for column in result:
    if column != "cat" and column != "thermometer":
        print column
        result[column] = pd.to_numeric(result[column], errors='coerce')
        sns.set()
        sns.set_context("paper")
        sns.barplot(data = result, x="thermometer", y=column, hue="cat")
        plt.show()
```

automotive-automotive-other

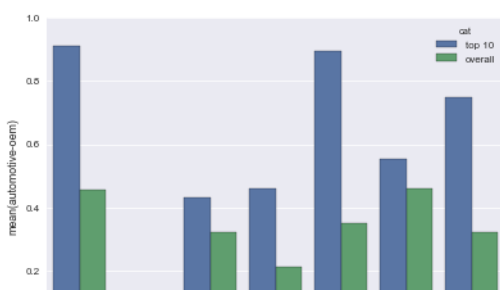
//anaconda/lib/python2.7/site-packages/matplotlib/__init__.py:892: UserWarning: axes.color_cycle is deprecated and replaced with axes.prop_cycle; please use the latter.
warnings.warn(self.msg_depr % (key, alt_key))

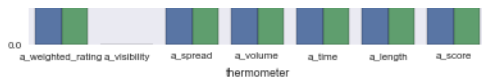


automotive-dealer

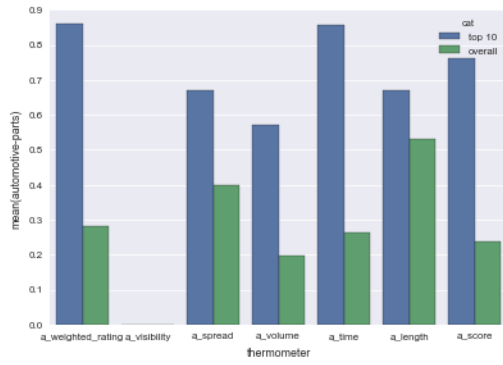


automotive-oem

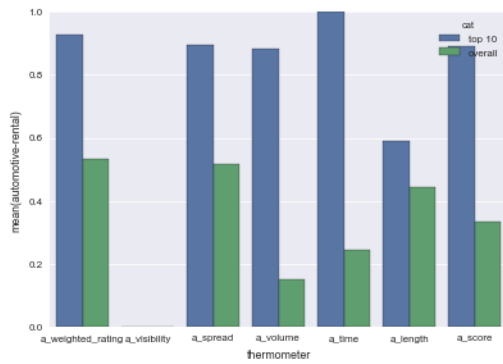




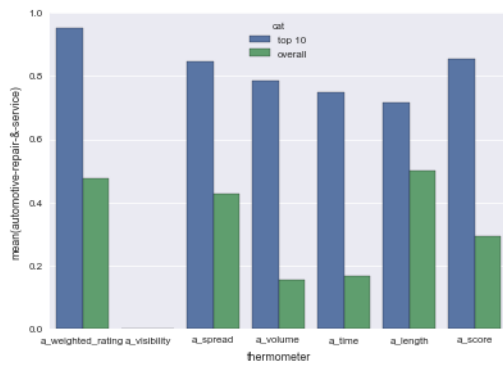
automotive-parts



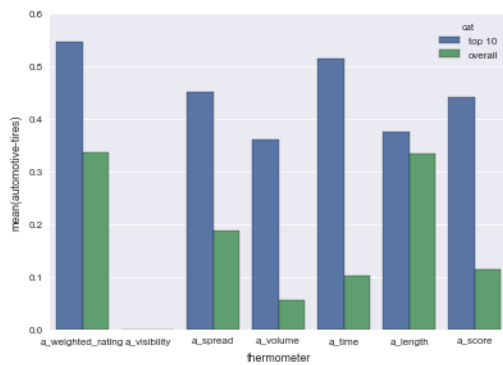
automotive-rental



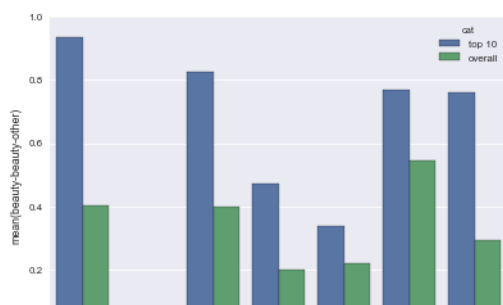
automotive-repair-&-service

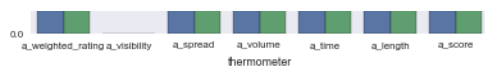


automotive-tires

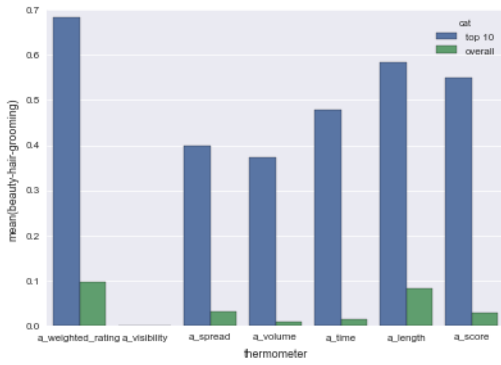


beauty-beauty-other

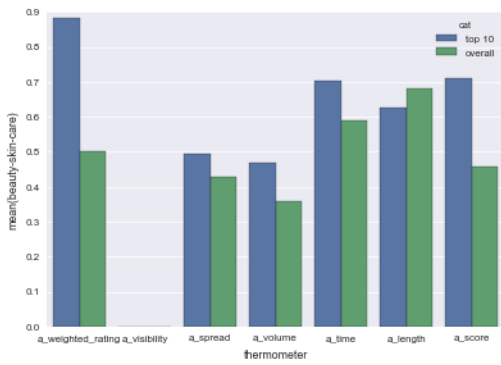




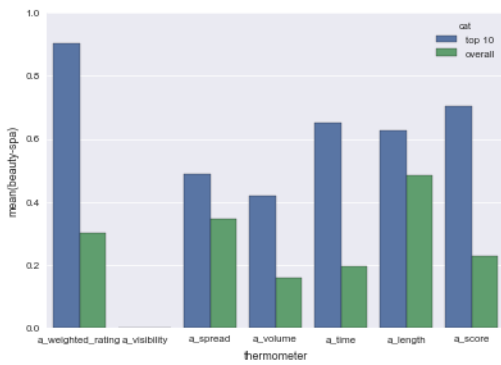
beauty-hair-grooming



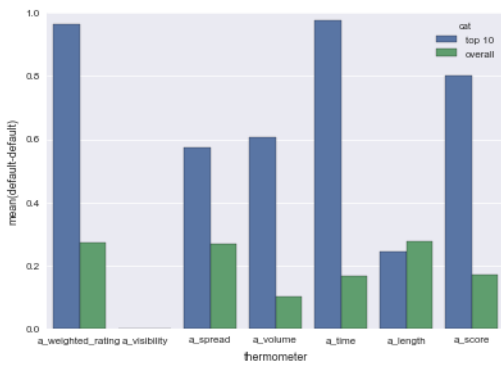
beauty-skin-care



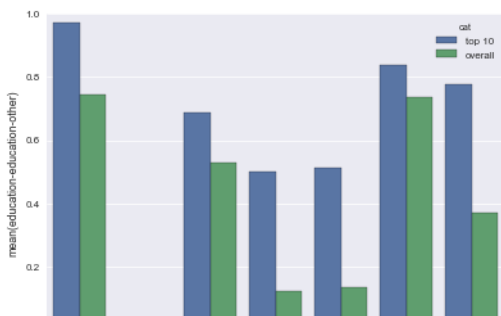
beauty-spa

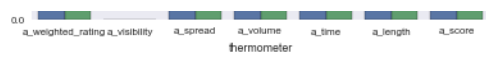


default-default

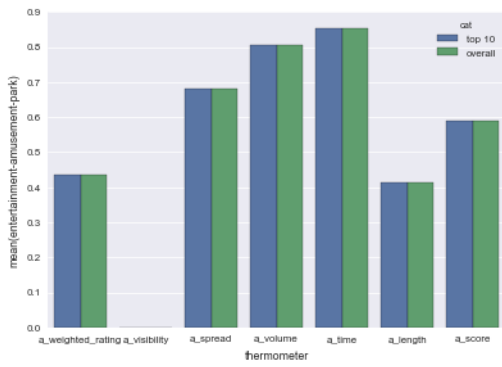


education-education-other

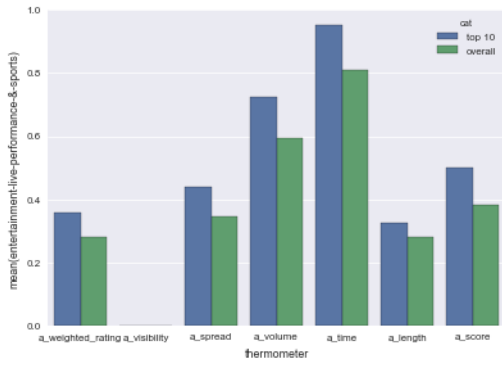




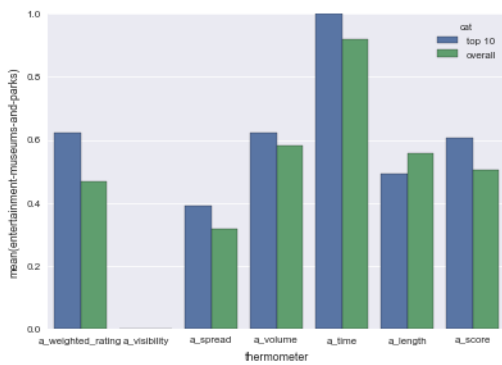
entertainment-amusement-park



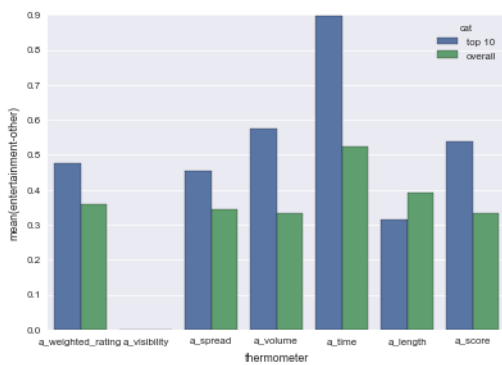
entertainment-live-performance-&-sports



entertainment-museums-and-parks



entertainment-other

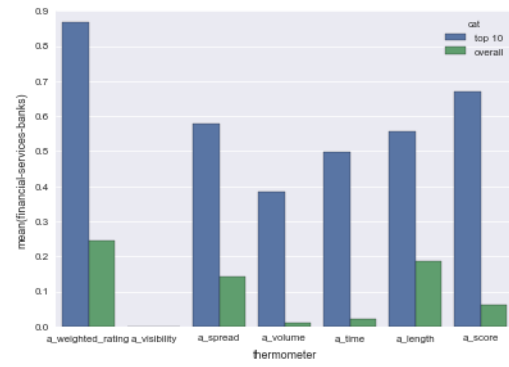


financial-services-accounting

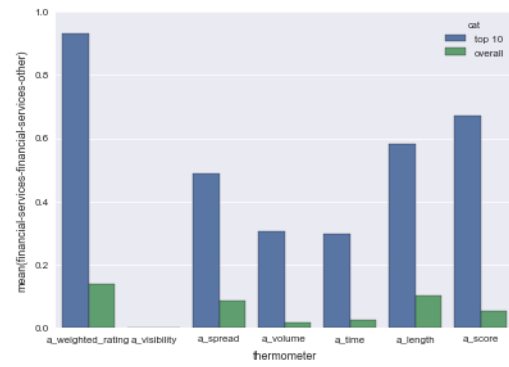


a_weighted_rating a_visibility a_spread a_volume a_time a_length a_score
thermometer

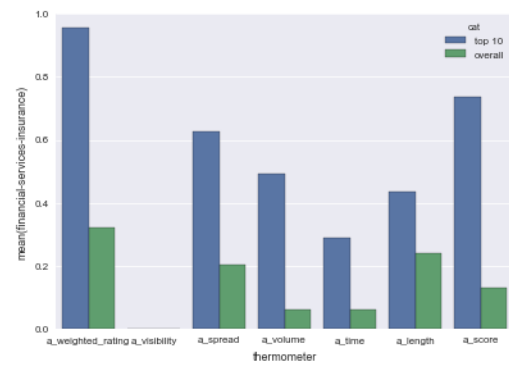
financial-services-banks



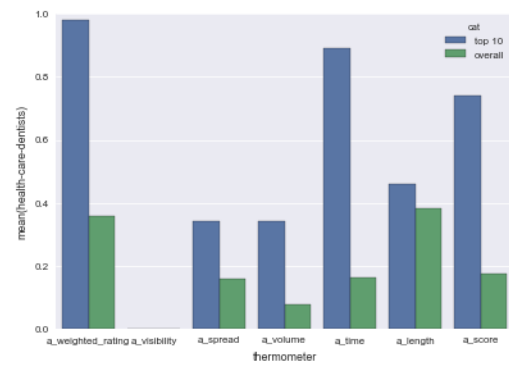
financial-services-financial-services-other



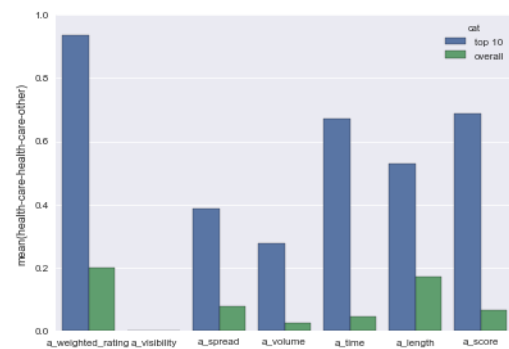
financial-services-insurance



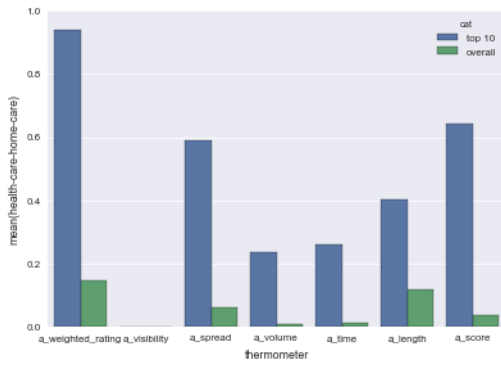
health-care-dentists



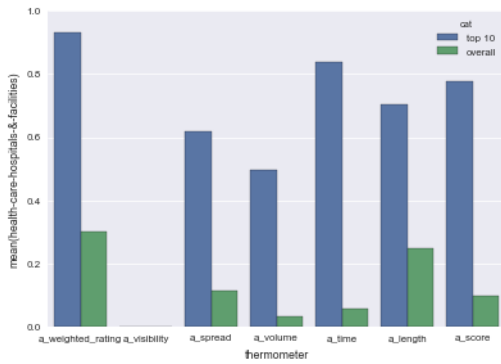
health-care-health-care-other



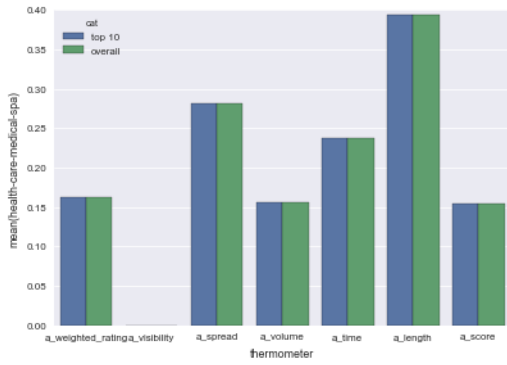
health-care-home-care



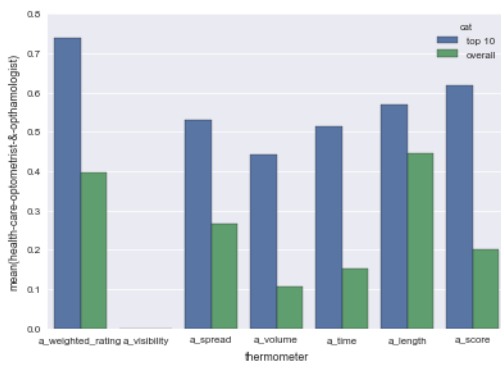
health-care-hospitals-&-facilities



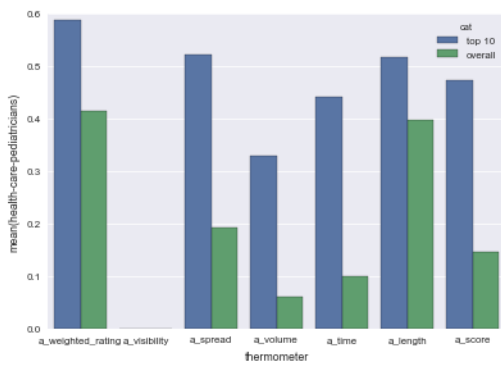
health-care-medical-spa



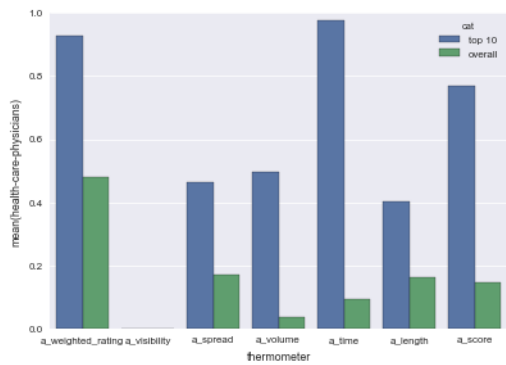
health-care-optometrist-&-ophthamologist



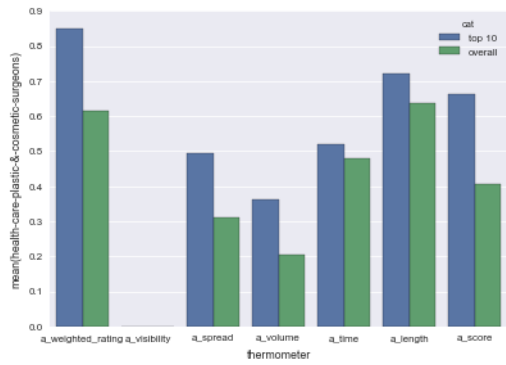
health-care-pediatricians



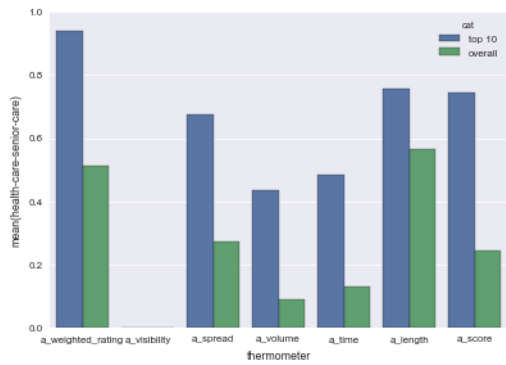
health-care-physicians



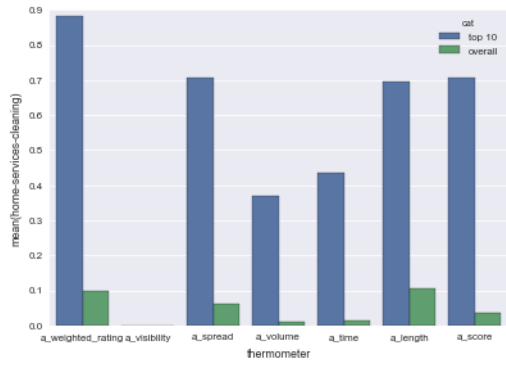
health-care-plastic-&-cosmetic-surgeons



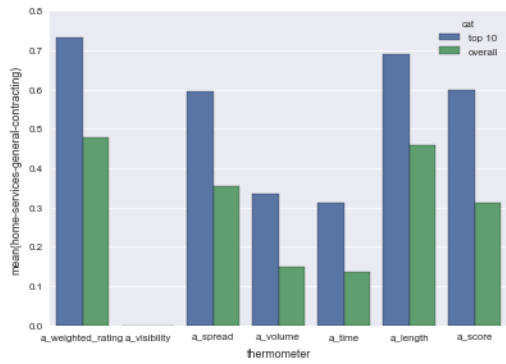
health-care-senior-care



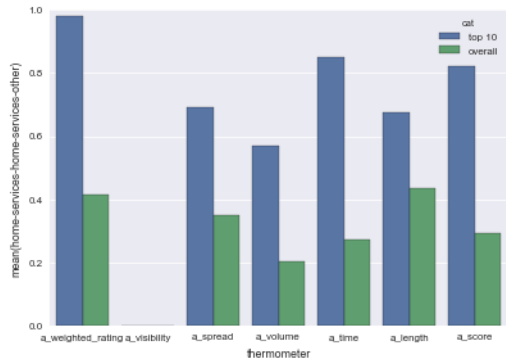
home-services-cleaning



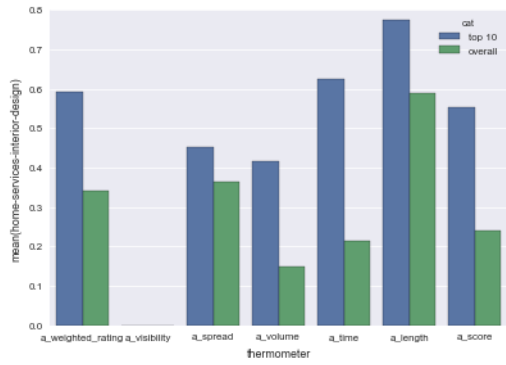
home-services-general-contracting



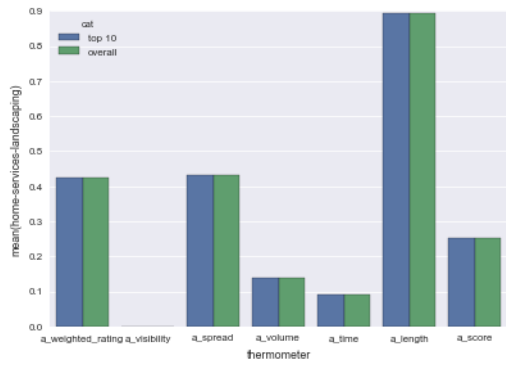
home-services-home-services-other



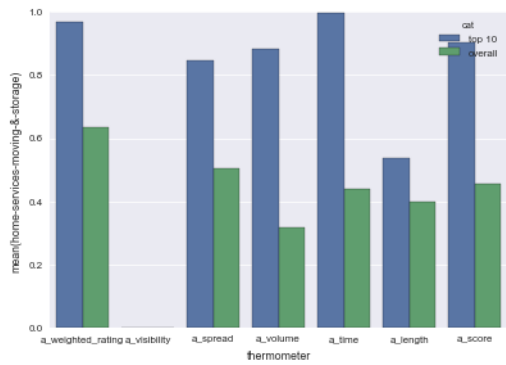
home-services-interior-design



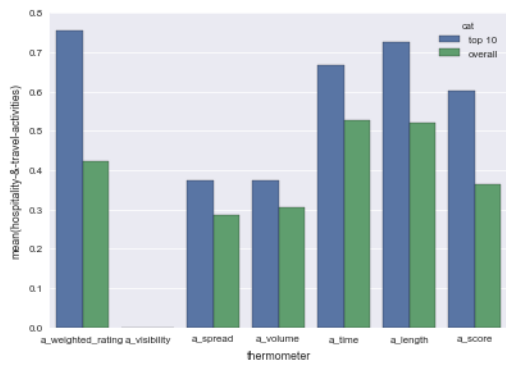
home-services-landscaping



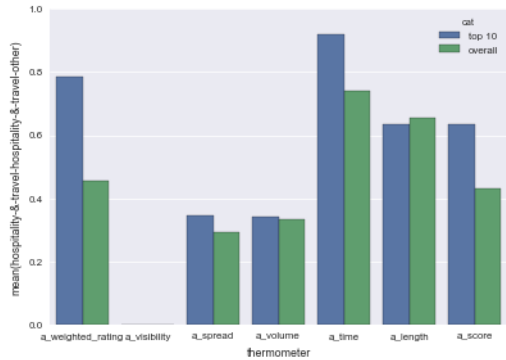
home-services-moving-&-storage



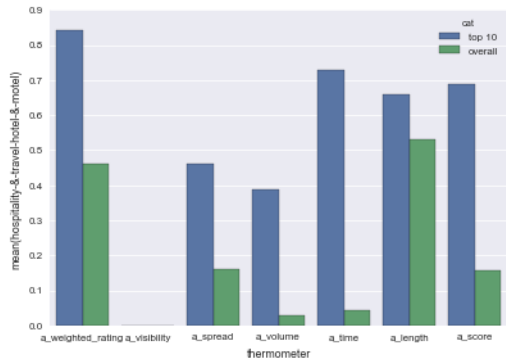
hospitality-&-travel-activities



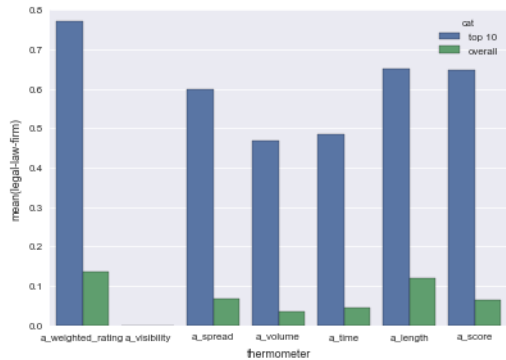
hospitality-&-travel-hospitality-&-travel-other



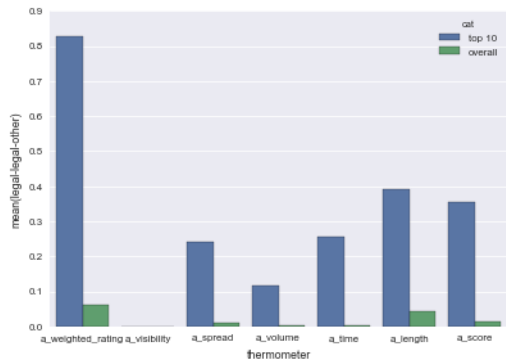
hospitality-&-travel-hotel-&-motel



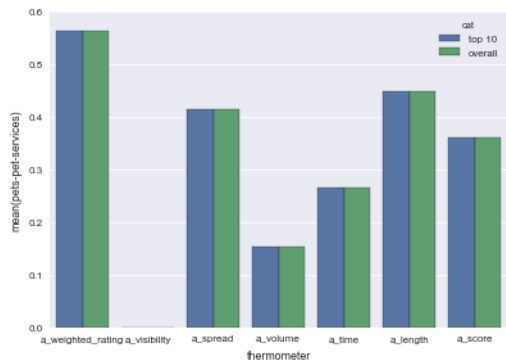
legal-law-firm



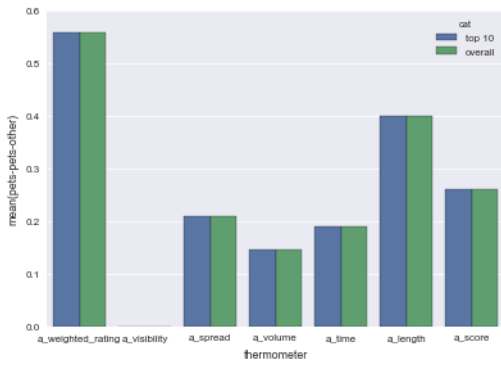
legal-legal-other



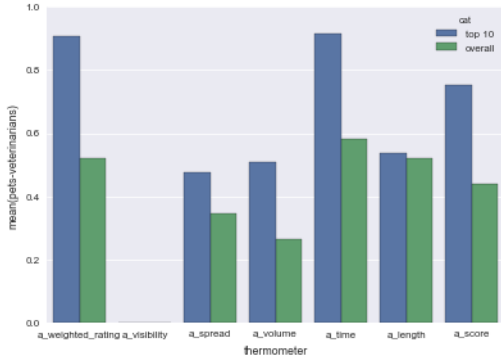
pets-pet-services



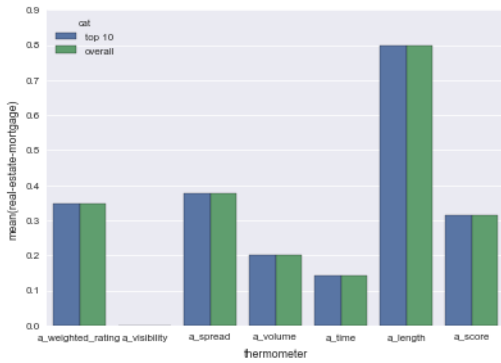
pets-pets-other



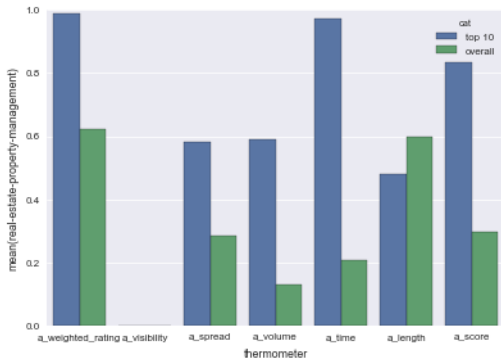
pets-veterinarians



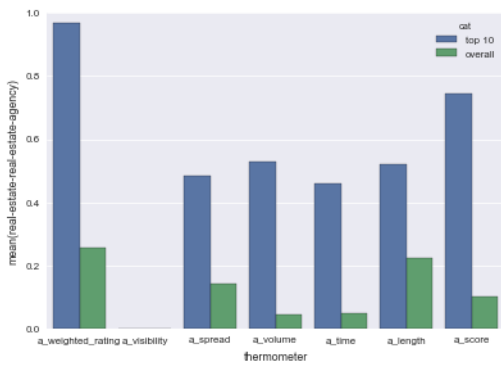
real-estate-mortgage



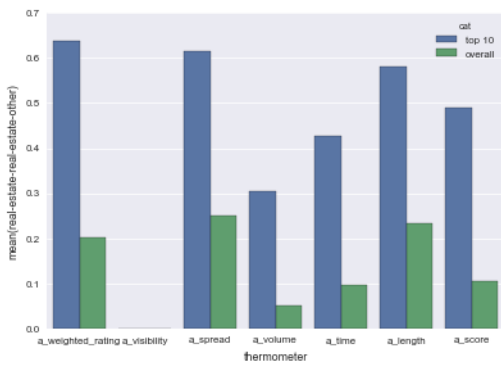
real-estate-property-management



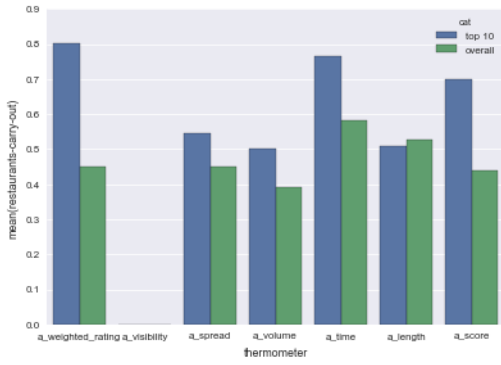
real-estate-real-estate-agency



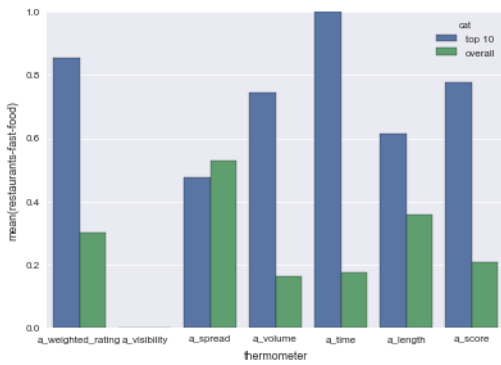
real-estate-real-estate-other



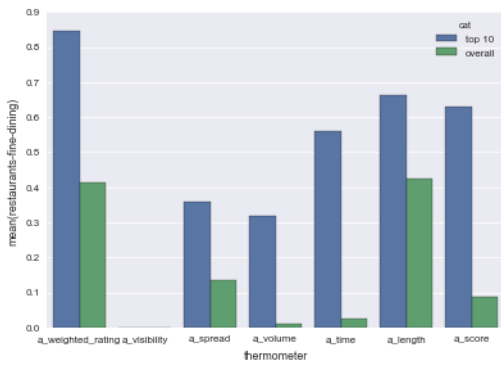
restaurants-carry-out



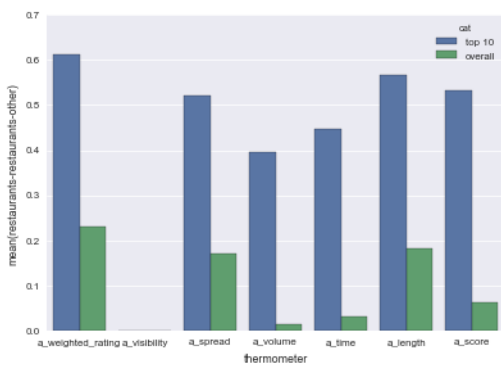
restaurants-fast-food



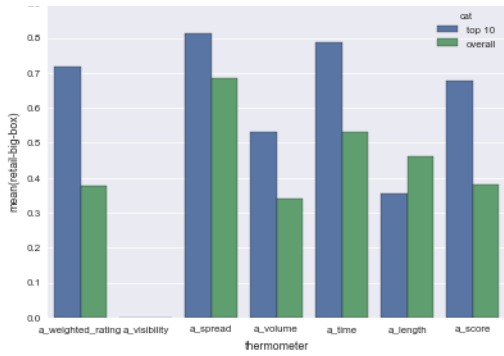
restaurants-fine-dining



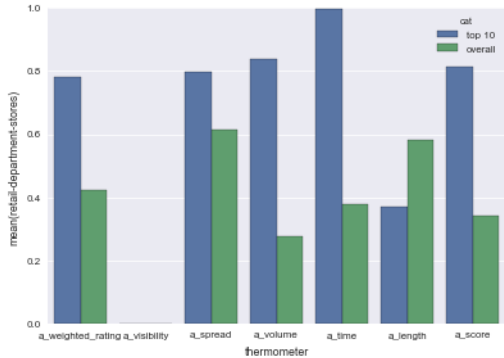
restaurants-restaurants-other



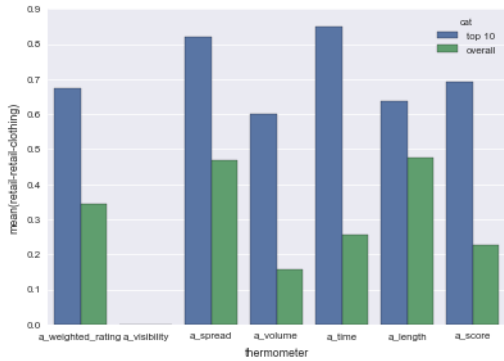
retail-big-box



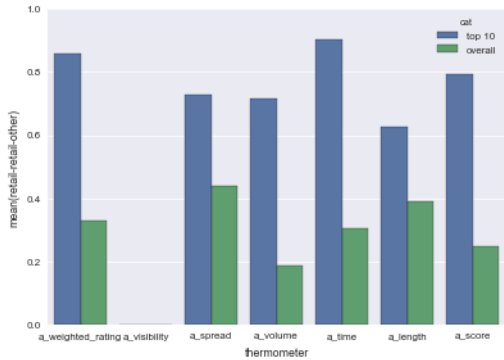
retail-department-stores



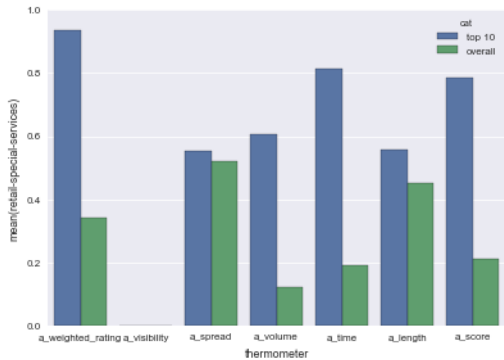
retail-retail-clothing



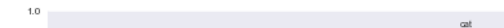
retail-retail-other

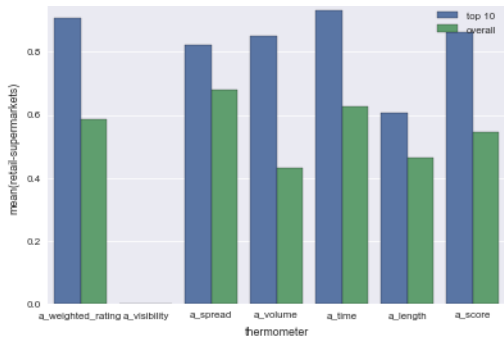


retail-special-services

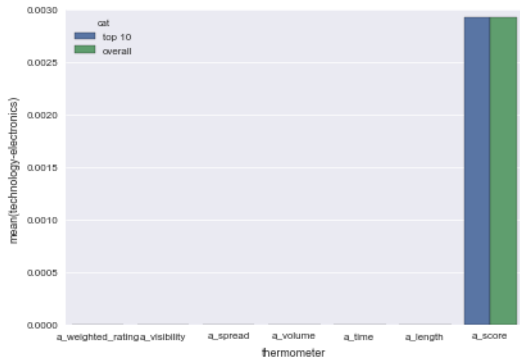


retail-supermarkets

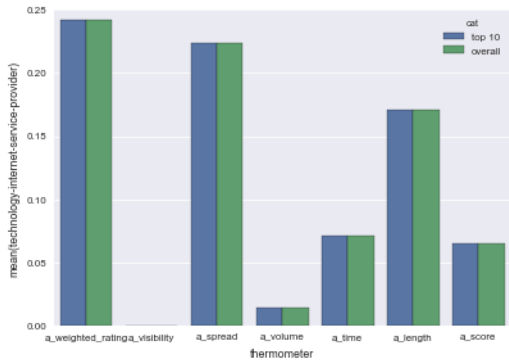




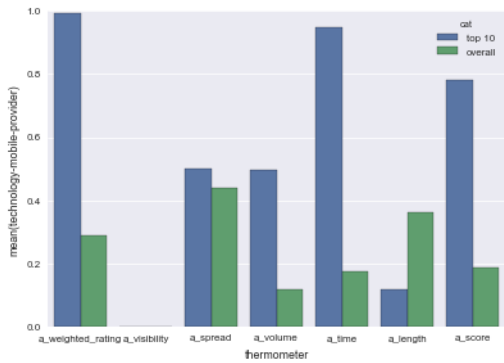
technology-electronics



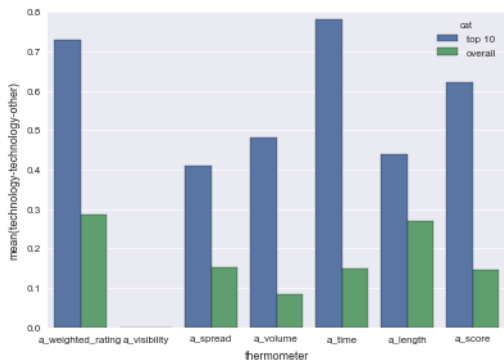
technology-internet-service-provider



technology-mobile-provider

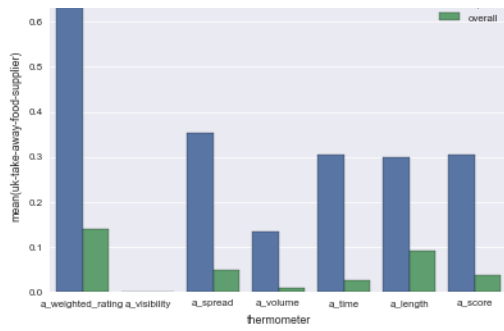


technology-technology-other

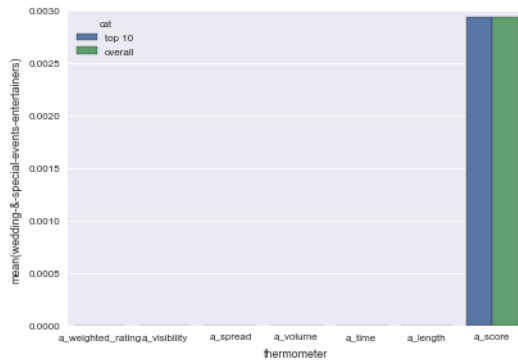


uk-take-away-food-supplier

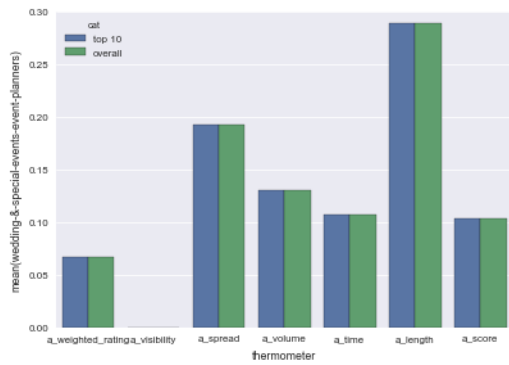




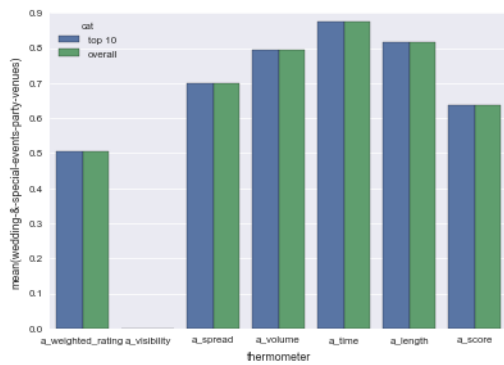
wedding-&-special-events-entertainers



wedding-&-special-events-event-planners



wedding-&-special-events-party-venues



wedding-&-special-events-wedding-&-special-events-other

