# **BigMartSales**

## **Problem Statement**

The data scientists at BigMart have collected 2013 sales data for 1559 products across 10 stores in different cities. Also, certain attributes of each product and store have been defined. The aim is to build a predictive model and find out the sales of each product at a particular store. Using this model, BigMart will try to understand the properties of products and stores which play a key role in increasing sales.

Please note that the data may have missing values as some stores might not report all the data due to technical glitches. Hence, it will be required to treat them accordingly.

## Data

We have train (8523) and test (5681) data set, train data set has both input and output variable(s). You need to predict the sales for test data set. Variable Description Item\_Identifier Unique product ID Item\_Weight Weight of product Item\_Fat\_Content Whether the product is low fat or not Item\_Visibility The % of total display area of all products in a store allocated to the particular product Item\_Type The category to which the product belongs Item\_MRP Maximum Retail Price (list price) of the product Outlet\_Identifier Unique store ID Outlet\_Establishment\_Year The year in which store was established Outlet\_Size The size of the store in terms of ground area covered Outlet\_Location\_Type The type of city in which the store is located Outlet\_Type Whether the outlet is just a grocery store or some sort of supermarket Item\_Outlet\_Sales Sales of the product in the particulat store. This is the outcome variable to be predicted.

Evaluation Metric: Your model performance will be evaluated on the basis of your prediction of the sales for the test data (test.csv), which contains similar data-points as train except for the sales to be predicted. Your submission needs to be in the format as shown in "SampleSubmission.csv". We at our end, have the actual sales for the test dataset, against which your predictions will be evaluated. We will use the Root Mean Square Error value to judge your response.

## RoadMap

#### #

Data Summary: Exploration, Visalization, Data Imputation

Preprocessing / Feature Engineering: Deriving the column, Transfomation, FEature selection

Dividing our data interms of trainig and testing

Building the model: linear regression, Ensemble regressor methods

```
In [1]:
```

```
import matplotlib.pyplot as plt
%matplotlib inline
```

## In [4]:

```
import seaborn as sns
```

#### In [4]:

```
import pandas as pd
import numpy as np

import matplotlib.pyplot as plt
import seaborn as sns

%matplotlib inline
import warnings
warnings.filterwarnings('ignore')
#Read CSV
```

```
test = pd.read_csv('Test_u94Q5KV.csv')
```

#### In [5]:

```
train.head()
```

#### Out[5]:

	Item_Identifier	Item_Weight	Item_Fat_Content	Item_Visibility	Item_Type	Item_MRP	Outlet_Identifier	Outlet_Establish	
0	FDA15	9.30	Low Fat	0.016047	Dairy	249.8092	OUT049	1999	
1	DRC01	5.92	Regular	0.019278	Soft Drinks	48.2692	OUT018	2009	
2	FDN15	17.50	Low Fat	0.016760	Meat	141.6180	OUT049	1999	
3	FDX07	19.20	Regular	0.000000	Fruits and Vegetables	182.0950	OUT010	1998	
4	NCD19	8.93	Low Fat	0.000000	Household	53.8614	OUT013	1987	
4	•								

#### In [2]:

```
#creates a new column 'source' with values as 'train' for all train data and 'test' for all test d
ata
train['source']='train'
test['source']='test'

data=pd.concat([train,test],ignore_index=True)
print train.shape,test.shape,data.shape

#data.apply(lambda x:sum(x.isnull()))
data.isnull().sum()
```

#### (8523, 13) (5681, 12) (14204, 13)

#### Out[2]:

Item_Fat_Content	0
Item_Identifier	0
Item_MRP	0
<pre>Item_Outlet_Sales</pre>	5681
Item_Type	0
Item_Visibility	0
Item_Weight	2439
Outlet_Establishment_Year	0
Outlet_Identifier	0
Outlet_Location_Type	0
Outlet_Size	4016
Outlet_Type	0
source	0
dtype: int64	

### In [3]:

```
data.describe()
```

## Out[3]:

	Item_MRP	Item_Outlet_Sales	Item_Visibility	Item_Weight	Outlet_Establishment_Year
count	14204.000000	8523.000000	14204.000000	11765.000000	14204.000000
mean	141.004977	2181.288914	0.065953	12.792854	1997.830681
std	62.086938	1706.499616	0.051459	4.652502	8.371664
	04 000000	00 000000	0.00000	4 ======	1005 000000

min	31.290000 Item MRP	33.290000 Item Outlet Sales	0.0000000 Item Visibility	4.555000 Item Weight	1985.000000 Outlet Establishment Year
25%	94.012000	834.247400	0.027036	8.710000	1987.000000
50%	142.247000	1794.331000	0.054021	12.600000	1999.000000
75%	185.855600	3101.296400	0.094037	16.750000	2004.000000
max	266.888400	13086.964800	0.328391	21.350000	2009.000000

```
In [4]:
data.apply(lambda x: len(x.unique()))
Out[4]:
Item Fat Content
                                5
                            1559
Item Identifier
                            8052
Item MRP
Item_Outlet_Sales
                            3494
Item Type
                              16
                           13006
Item_Visibility
Item Weight
                             416
Outlet Establishment Year
Outlet Identifier
                              10
Outlet Location_Type
                               3
Outlet_Size
                               4
Outlet_Type
                                4
source
                               2
dtype: int64
In [5]:
#Filter categorical variables and exclude Item Identifier etc
categorical columns=[x for x in data.dtypes.index if data.dtypes[x] == 'object']
categorical columns=[x for x in categorical columns if x <math>not in
['Item_Identifier','Outlet_Identifier','source']]
for col in categorical_columns:
   print "\nFrequency of categories for variable %s"%col
   print data[col].value counts()
Frequency of categories for variable Item_Fat_Content
        8485
Low Fat
          4824
Regular
LF
          195
low fat 178
dtype: int64
Frequency of categories for variable Item Type
Fruits and Vegetables 2013
Snack Foods
                        1989
                       1548
1426
Household
Frozen Foods
                       1136
Dairy
Baking Goods
                       1086
Canned
                       1084
                       858
Health and Hygiene
                         736
Meat
Soft Drinks
                         726
Breads
                        416
Hard Drinks
                        362
                        280
Others
Starchy Foods
                         269
Breakfast
                         186
                         89
Seafood
dtype: int64
Frequency of categories for variable Outlet_Location_Type
```

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Tier 3 5583

dtype: int64

Tier 2 Tier 1 4641

3980

```
Frequency or categories for variable Outlet Size
Medium
         4655
Small
         3980
High
        1553
dtype: int64
Frequency of categories for variable Outlet Type
Supermarket Type1 9294
Grocery Store 1805
Grocery Store
Supermarket Type3 1559
Supermarket Type2 1546
dtype: int64
In [6]:
item avg wt=data.pivot table(values='Item Weight',index='Item Identifier')
print item avg wt
miss bool=data['Item Weight'].isnull()
# print "hi", sum(miss bool)
print miss_bool
data.loc[miss bool, 'Item Weight'] = data.loc[miss bool, 'Item Identifier'].apply(lambda x : item avg w
t[x])
print sum(data['Item Weight'].isnull())
Item Identifier
DRA12
                  11.600
DRA24
                  19.350
                   8.270
DRA59
                   7.390
DRB01
DRB13
                   6.115
DRB24
                   8.785
DRB25
                  12.300
                  16.750
DRB48
DRC01
                   5.920
DRC12
                  17.850
                   8.260
DRC13
                  17.850
DRC24
DRC25
                   5.730
                  13.800
DRC27
DRC36
                  13.000
NCY30
                  20.250
NCY41
                  16.750
NCY42
                   6.380
NCY53
                 20.000
NCY54
                  8.430
NCZ05
                   8.485
NCZ06
                  19.600
NCZ17
                  12.150
NCZ18
                   7.825
                  15.000
NCZ30
                   6.590
NCZ41
                  19.850
NCZ42
                  10.500
                   9.600
NCZ53
NCZ54
                  14.650
Name: Item Weight, Length: 1559, dtype: float64
   False
Ω
     False
1
2
     False
    False
3
    False
5
    False
6
     False
      True
    False
8
     False
9
10
    False
     False
11
12
     False
13
     False
    False
14
14189
      False
```

```
False
14190
      False
14191
14192
         True
       False
14193
14194
       False
14195
       False
       False
14196
14197
        False
14198
        False
14199
       False
14200 False
       False
14201
14202
        False
14203
        False
Name: Item_Weight, Length: 14204, dtype: bool
In [7]:
visibility avg=data.pivot table(values='Item Visibility',index='Item Identifier')
miss bool=(data['Item Visibility']==0)
print 'Number of zeros initially %d'%sum(miss bool)
data.loc[miss bool, 'Item Visibility'] = data.loc[miss bool, "Item Identifier"].apply(lambda
x:visibility_avg[x])
print 'Number of zeros after imputing %d'%sum(data['Item Visibility']==0)
Number of zeros initially 879
Number of zeros after imputing 0
In [8]:
# determine another feature
data['Item Visibility MeanRatio'] = data.apply(lambda x: x['Item Visibility']/visibility avg[x['Item
Identifier']],axis=1)
print data['Item Visibility MeanRatio'].describe()
print visibility avg[[0,10]]#[data[1]['Item Identifier']]
        14204.000000
count
            1.061884
mean
            0.235907
std
            0.844563
25%
            0.925131
50%
            0.999070
75%
            1.042007
            3.010094
max
Name: Item Visibility_MeanRatio, dtype: float64
Item Identifier
DRA12
                   0.034938
DRC13
                   0.028408
Name: Item_Visibility, dtype: float64
In [9]:
#capturing initial two characters of string and separating the data
data['Item Type Combined']=data['Item Identifier'].apply(lambda x:x[0:2])
#Renaming them to more intuitive categories.
data['Item_Type_Combined'] = data['Item_Type_Combined'].map({'FD':'Food',
                                                             'NC': 'Non-Consumable',
                                                             'DR':'Drinks'})
data['Item Type Combined'].value counts()
Out[9]:
                 10201
Non-Consumable
                  2686
Drinks
                  1317
dtype: int64
In [10]:
```

```
data['Outlet Years']=2013-data['Outlet_Establishment_Year']
data['Outlet Years'].describe()
Out[10]:
         14204.000000
count
          15.169319
std
            8.371664
            4.000000
min
25%
            9.000000
50%
            14.000000
75%
            26.000000
max
           28.000000
Name: Outlet Years, dtype: float64
In [11]:
print 'Original Categories :'
print data['Item Fat Content'].value counts()
print '\n Modified Categories :'
data['Item_Fat_Content'] = data['Item_Fat_Content'].replace({'LF': 'Low Fat',
                                                           'reg': 'Regular',
                                                           'low fat':'Low Fat'})
data['Item Fat Content'].value counts()
Original Categories :
Low Fat
         8485
Regular
          4824
           195
reg
            178
low fat.
dtype: int64
 Modified Categories :
Out[11]:
Low Fat
          9185
         5019
Regular
dtype: int64
In [12]:
#Mark non-consumables as separate category in low fat
data.loc[data['Item Type Combined']=='Non-Consumable','Item Fat Content']='Non-Edible'
data['Item_Fat_Content'].value_counts()
Out[12]:
Low Fat
             6499
             5019
Regular
Non-Edible
dtype: int64
In [13]:
#Outlet Identifier is the store number /name so changed it also to numeric
from sklearn.preprocessing import LabelEncoder
le=LabelEncoder()
data['Outlet'] = le.fit transform(data['Outlet Identifier'])
var_mod=['Item_Fat_Content','Outlet_Location_Type','Outlet_Size','Item_Type_Combined','Outlet_Type'
,'Outlet']
for i in var mod:
    data[i]=le.fit transform(data[i])
data=pd.get dummies(data,columns=['Item Fat Content','Outlet Location Type','Outlet Size','Item Typ
e Combined', 'Outlet Type', 'Outlet'])
4
In [14]:
data.dtvpes#['Item Fat Content']
```

## Out[14]:

```
object
Item_Identifier
                         float64
Item_MRP
                           float64
Item Outlet Sales
Item_Type
                             object
Item Visibility
                           float64
Item Weight
                           float64
Outlet_Establishment_Year int64
Outlet_Identifier
                             object
                             object
Item_Visibility_MeanRatio float64
Outlet Years
                          float64
Item Fat Content 0
                           float64
Item_Fat_Content_1
Item Fat Content 2
                            float64
                           float64
Outlet_Location_Type_0
Outlet Location_Type_1
                          float64
Outlet_Location_Type_2
                           float64
Outlet_Size_0
                           float64
Outlet_Size_1
Outlet_Size_2
                           float64
float64
Outlet_Size_3
                           float64
                         float64
Item_Type_Combined 0
Item_Type_Combined_1
                           float64
                           float64
Item_Type_Combined_2
Outlet_Type_0
                            float64
Outlet Type 1
                            float64
Outlet Type 2
                           float64
Outlet_Type_3
                            float64
Outlet_0
                            float64
Outlet_1
                            float64
Outlet_2
                            float64
Outlet_3
                            float.64
Outlet 4
                            float64
Outlet_5
                            float64
                            float64
Outlet_6
Outlet_7
                            float64
                            float.64
Outlet 8
Outlet 9
                           float64
dtype: object
```

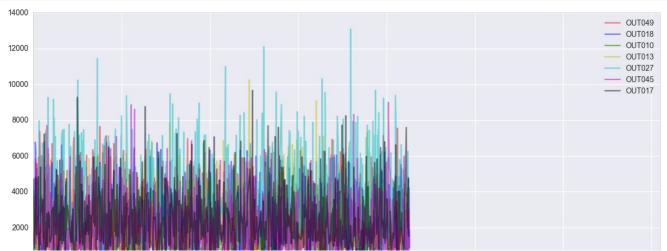
# Sales across different outlets

```
In [15]:
```

```
colors = ['r', 'b', 'g', 'y', 'c', 'm', 'k']

for i, s in enumerate(data.Outlet_Identifier.unique()[:7]):
    data[data.Outlet_Identifier == s].Item_Outlet_Sales.plot(c=colors[i], figsize=(15, 6), label=s, alpha=.5)

plt.legend(loc='best');
```



```
0 2000 4000 6000 8000 10000 12000 14000
```

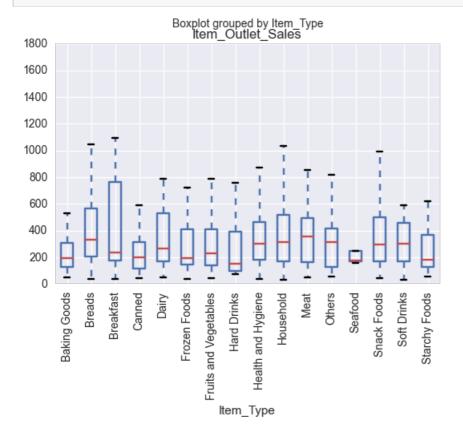
# Stores have varying sales

```
In [16]:
```

# Correlation between item type and sales for a particular store

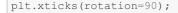
#### In [18]:

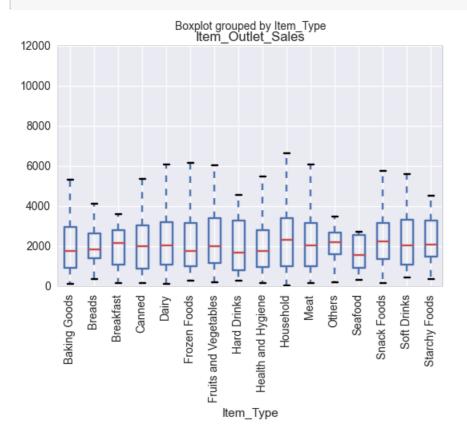
```
data_OUT010.boxplot(column='Item_Outlet_Sales', by='Item_Type')
plt.xticks(rotation=90);
```



#### In [19]:

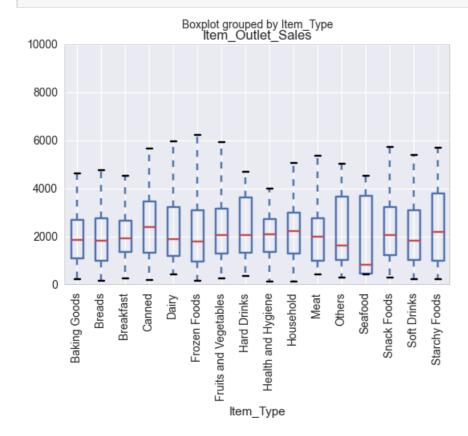
```
data_OUT013.boxplot(column='Item_Outlet_Sales', by='Item_Type')
```





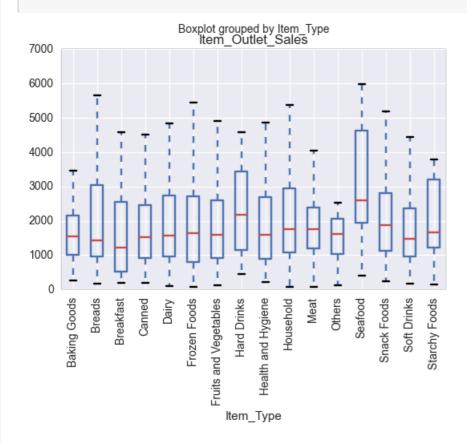
#### In [20]:

```
data_OUT017.boxplot(column='Item_Outlet_Sales', by='Item_Type')
plt.xticks(rotation=90);
```



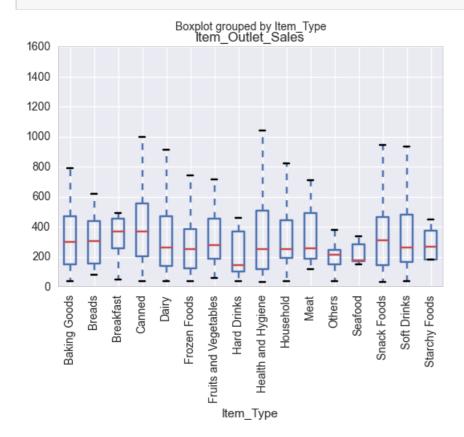
#### In [21]:

```
data_OUT018.boxplot(column='Item_Outlet_Sales', by='Item_Type')
plt.xticks(rotation=90);
```



## In [22]:

data\_OUT019.boxplot(column='Item\_Outlet\_Sales', by='Item\_Type')
plt.xticks(rotation=90);



#### In [23]:

```
\tt obvagiogivoutthotmatgyvoutveclastitumeatgoutellestronest independence of the proposition of the proposit
 \texttt{IpXCzLqyFr0L3A/8p7u3Fznv7wCfdPeD81h3OHCCu99UzGNKip11Ap9296dypHUBB7j7nwuQTxdwkLs/ldQ1NbODgN/3s8pt7n5} \\
yiQ5HpChUIiIyOMcCY4FtgSOBjwKXJ3pEvX0B+FbSB1FEScxLkdQ1nU6438YC46J1x8aWnZXAMYkU1EpERAZnmbsvj14vNLMfAN
\texttt{X03wmLLVJH0AVSiRa} + \texttt{rua4HM/YaZwcb3oEjFUyAiMjSr43} + \texttt{YWSNwMeEJegzw0+Br7v62mZ0C/AzYw91nm9muwIvAvwAvA30i7a4} + \texttt{VWSNwMeEJegzw0+Br7v62mZ0C/AzYw91nm9muwIvAvwAvA30i7a4} + \texttt{VWSNwMeEJegzw0+Br7v62mZ0C/Azyw91nm9muw} + \texttt{VWSNwMeEJegzw0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ0C/Azww0+Br7v62mZ
{\tt RgB3AOe4+/rsTM1sEqEkZh/CD9U0d78hKsq/JVqnC9jR3d/K2nYEcA3wOWAVcBFwA7AToZR0DjAV+Drwf939TDM7AvgusCvwBnCaparameters and the state of th
Bu98X7e8J4A/ufnH0947RPnZ097ei4zgZuBDYEvgN8JVMdZaZfQK4Ctgd+DvwHXe/N3a8FwBnRMd2QT/vRcYhZnYHocTgt8Cp7t
 5mZo8Br7r7hl1EM/st8IK7T+1rZ31dUzO7EPgK0AT8kfA+z4ut93ngEmD76Jy/DdwMfAyYCfybuy/I43z6ZGbfBj7v7nvHlp0DF
OXuBw712ouUgqpmRAZnw50xmW0BnAn8IpZ+PXA080/AJGAY8Bszq3H3m4G/EL74AW4E7nH338a2n0oIEI4FjiMENRsxs90I7Qae
D4CfAf4kZkdTSjKPxt4m/BD/HaOc/gJMBH4NPCvwLn0fuL/ODAB+ImZfQr4NXAbsBfwc+AuM9s3WrebgatLLgG+BhwM7E0IfDCz
TLBwC/BhYBpwm5kdEKX/B/CfhB/TQ4D/AzQMkNdXgNOATxJ+YDPX+5eE60q079HAPwJ3DrC/XtfUzM4AvkgIHD8GLAIeNbO62HY
A18CPkt4L6cTAtGPE6pZzh0g33zcCexpZh+KLfs8G5/TJl17kVJRiYjI4DxsZusJP9xNhAarXwEws1bCD+Vh7v5kt0x4YB7hB+
9R4D+A18zsv4APEYKWuG+4+1+ibS8k/DhklwJ8GZjp7pnls6Lg5Fx3v9/M2oD1uYrvzWwkIUg6zN2fiZadATySterV7v5GlH4Z8
 /u/pMo7Soz+yjwDcKPcT6+7+6PRPs7E3jMzL5K+IF83N2vjdabEwU4ZwN/is71Snd/MNr2ZMAHyOsCd38sdm6PR3neB1xnZh+PG
5SESkREBucUwlPl3oQn20eB6Wa2JbAL4TPldGZld19O+OHcLfp7FvBDwpP0N9x9Wdb+p8dezwS2jEpeoKfUYbd4HpG/ZPIYwK7
AcODZ2LIZOdZ7M2ubTc0vI/u86gjXazfgSDNbmflH+IHMPOHvRqi+AjZcv7YB8nom9voFwgPXB939PeBhwo82hJKDXw3iHIANwc
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r + K2vddVnbEa0b10HvqpS62Pr9yew/vn2uhpidfbyO55c5p + xqmVzfK7nOqyt6/Qvg + 1nHs7af43s/x/7j4tcrk1dmmzuBK6Lu00dfbyO55c5p + xqmVzfK7nOqyt6/Qvg + xqmV
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1 \\ f \\ Mu \\ 4 \\ Fu \\ ZNg \\ JRtcC/EtpCXALs \\ TBg \\ 74 \\ rRofz \\ 8G9 \\ iSMfXKWu \\ 2fy \\ yee \\ 49 \\ iDMnXJ \\ +VhAChNFPo \\ +Hprz \\ Ozg \\ 939 \\ D31VU \\ OSNKb/\\ j \\ 7t \\ +NXg \\ idea \\ fixed \\ f
\label{localize} NcZGZT3T3nAG1R9+b/jM5pEWGulEvcvSuTT/a+8zy1sYQSjI2+F6P9fp0e6qf4cXwlWl5L6MZ7qbvf01cGebxvIwi9qo4kTFL3Equation and the second statement of the second statement
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In Z Ho 3W2Z0wz83J7n5btGwqITjZhTBGRj4yDUff70fYl5vZMsL4Ghn9Vl04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sKfBzM/u12h04+9NR+5i3MxPyxUXtUi4Ernf3T0Pax81sWfBxM/u12h04+9NR+5i3MxPxX1sWfBxM/u12h04+9NR+5i3MxPxX1sWfBxM/u12h04+9NR+5i3MxPxX1sWfBxM/u12h04+9NR+5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxM-5i3MxPxX1sWfBxX1sWfBxX1sWfBxX1sW
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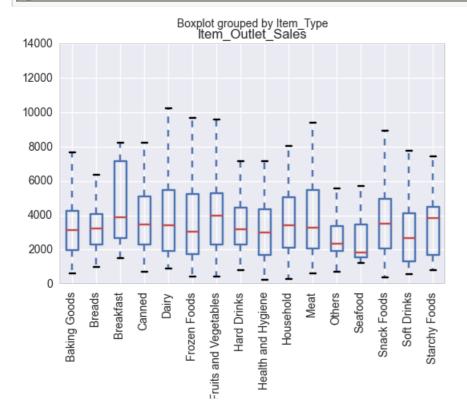
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```

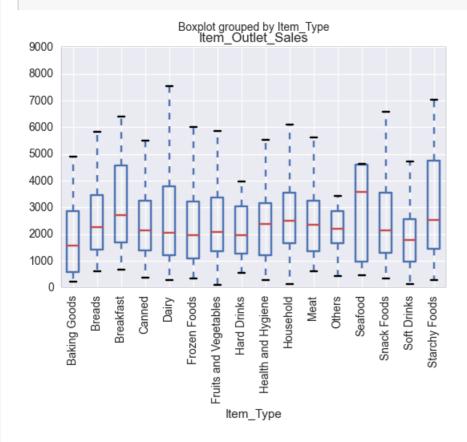
tNJs3KicckSbjgffTxwasANyIdyF0VB4waCvvk1HFtIikcs1JS1ExADPra7bSQKSWDTToSPrD8Lm6GI3P09kPny78HUknA5/H7 5FZCEekya3AsZL2AO4Bhks6D9qInOqYBNPD74GbJV2Pp/4mpOuNGSq/r9BWcSbFJ/DUyJW4Mz0JvzlvqOu8dxq1bKBBR9Ifhs/ VxXDgenxi9zm4Ls84YE4yCqmFI9JkL1w6dwvgbGBHPBf4AR7aDYLp4XP4FMuFcZ2LB114dKIyR8TMjmt8nKIjPzazc4vPkXQn7c q7/YRaNtCgI619+FxdmNmjkj6LD/kbn4Z0ro0Phb0n191wRBJpmNE6jc8lrY3nB183s2fqWlcwsGnMmqmBL+ATNMvcjxfPdhR1k aBBR1L78Lm6kPQUsGpjOreZvQXcIGlhSS+a2QI57IYj0gJJ8wPfxtVUO7LAMMhHijpsbGavFa7NlmHGS188iM+M2KVhV9Lc+Ly Zu/v8ygFK6kIanz5+i84MnQf56Q/D59qGpC1xZwtgceB0SRNKT1scyDY2YVA7IqkI6Xhg63TpYryN925gdlyPYISk9c3sjnpWG( /wBnA4RTSNkHQ301t6Evh+e110uVHgFsKBXdBEJRI74990r8yvwYuyz18rp2Y2Yv4/a4x9074dmukDHZHZFNgIzO7D0DSaHwuy( NzTp5wA/Vt8QgmD7M7F385Pb7utcSBJ1AG4fPtZ0k4HZUQcBtZfwAnl3AbbA7IvNRKDgys5cljcd/8Q3exNM0QTBgSJvIabjQ1& ylhztyGq2kuYC18HEMPfRTzOzOWhYVBP2cgoDbhnj0t00CboPdEYGmiFmDbqaUqw6CD8vWk15PH7d99gq+ibyOayK8mclGv0HSN sAF9C4eN6SNywmCgURDwO3L1CTgFo4IrCGp0ZbVhXfKrCbpU+nax+tZVjCAGcuU+eV2z15ZCljezJ7M9P37G8fhheZHmdkbdS8n AYQtQu4hSMCV7W4dmnbVxF0DP1k9srD+JC9weKIzAecGU5IEHxoahdwG9SOiJ1FuDboVH4FnC/pQtwZmVh8MGNKqC6ux1WRT6x7 IUEwwKhdwG1QOyJB0MEciBeZbdXL4wPeEU1OVqOea2bgeEmb4TLvHxSe2m1mP2j3+oJggFC7gFs4IkHQgfST9FBuip0xb9B0rrr  $2 \\ qIvAfci4 \\ daO4 \\ nb8KK710 \\ rX18E1 \\ EmZr+4 \\ qCYIDTLgG3 \\ cESCoDM5GDg2 \\ /fsPsDowJ17EemyN66 \\ oMSbvhzlaDFyS1eurN7VlREATISCOMSGDG2 \\ oMSbvhzlaDFyS1eurN7VlREATISCOMSGD2 \\ oMSbvhzlaDFyS1eurN7VlREATISCOMSGD2 \\ oMSbvhzlaDFyS1eurN7VlRE$ zgiQdCZfBK4yMzelfRXYDUzu1LScFxv48Z6l1cJZwH/xFNOt+JdM68WHu8G3gY6VpY7CDqBcESCoDN5EVgAGAMYsBJwJfBfXOxs Nm3cAdAJI+DTxjZh/0/VVBEPQ3olg1CDoQSScB3wJ+gAsRXYwru26MF6suX+PyKqHQvttFs10mPL68i2jfDYJ+TQh6BUFnchAwC pjfzG4GzgfOxmtFdqtzYRXSRdPx6ML3s67CvyGl5wRB0A+JiEgQBEEQBLURNSJBEAx4JA0BNsHbdYu6KbMCK5rZ+nWtLQiCvglF JAiCTuA0YEfgIXwuxt3AksDHgONrXFcQBFMhakSCIOgEtga2NbM18CF/uwGLAr8FXq9zYUEQ9E04IkEwSJA0f5qu2YnMDdyfPv4  $s \texttt{KqZvYeLt} + 1 \texttt{R26qCIJgq4YgEQQciaWFJV0} \\ ha \texttt{UdKsku4EXgCekvS5uteXgf8aK6ePHwW+kD7uAj5ey4qCIJgmokYkCDqTs4C5gHF} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq4YgEQQciaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq4YgEQQciaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq4YgEQQciaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq4YgEQQciaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq4YgEQQciaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq6YgEQQciaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq6YgEQCiaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq6YgEQQciaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq6VgEQCiaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq6VgEQCiaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq6VgEQCiaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{had } \texttt{LSqLSymbol} \\ \text{StqZvYeLt} + 1 \texttt{R26qCIJgq6VgEQCiaWFJV0} \\ \text{had } \texttt{LSqLSymbol} \\ \text{LSqLSymbol} \\ \text{LSqLSymb$ 9sDngC8C2+LKqmvXtbBMnABcKukHwBXAA5LeA74E3FPryoIg6J0IiARBZ7IusKuZjQU2A641s/uAk2hGCzoGMzsfF3B70swexX /mhfB0zXZ1ri0Igr6JiEgQdCYTgNkkzYtHP76brn+aDi3eNLOG3Pu8wC3AzSH5HgT9n3BEgqAzuQZPUbwDvAb8XtJWwKn4zJmO1 YHA+ea2d6pZgIzOxsX/hpR68rysAOws51dD3wAYGa34vUhW9W5sCAI+iZSM0HQIUhaClgAb1k9HPi7pHGlp300j5bs297VZWcB4 8 trr8GzNnmtQRB8CEIRyQIOoeF8SLNBle1eM7bwMntWU5b+T0wv6SdGxckzQ0cA9xW26qCIJgqMX03CDoQSW0AVczs5ZqX0hYkII7XoviAmaPp4+fBjY2s//UuLwgCPogHJEgCDqCJF+/LrA0Hu014I/RwhsE/ZtwRIKgQ5D0HzwK8kr6uDe6zWyJdq0rCIKgL6JGJ& 6hyPwGpDGxx1NL85WN16s2+NaOF5B0H+JiEgQBAMSSdu3uHwWcCjwUuFat5n9qi2LCoLgQxOOSBB0IJJuY8rowOQ3u5mt2/ZFt QFJbwIrmNlTda8lCIJpI1IzQdCZ3FH6fCZgCXww3NHtX04QBEFrwhEJgg7EzA5vdT2lM7YAjm/neoIgCHojJN6DYHBxJz5/JQi CoF8QEZEg6EAkLdri8tzA/sCY9q4mD5K2o1D3gtfDzARsLunF4nPN7NftXFsQBNNOOCJB0JmM6eX6M8CObVxHTo6gpyMC8AKwe4  $\verb|iMSBP2U6JoJgg5E0nLAW4VL3cBE4IVQGg2CoD8REZEg6ExuADYzs4fqXkgQBEFfRLFqEHQmHwCz1L2IIAiCqRERkSDoTH4P3Czpredefines and the property of the prope$ ZEK63oUrjf68roUFQRAUCUckCDqTzwEPAgsDCxWud+H1IuGIBEHQL4hi1SAIgiAIaiNqRIKgQ5B0p6R5Stdmq2s9QRAE00I4IkF XwZ+Ejp2ouS1ghjMUEQBNNCOCJBEARBENRGOCJBEARBENRGOCJBEARBENRGtO8GQWextaTX08cxBC4Ign5Pt08GQYcgaQxTDoH1 M/t0G5YUBEEwVcIRCYIqCIKqNqJGJAiCIAiC2qhHJAiCIAiC2qhHJAiCIAiC2qhHJAiCIAiC2qhHJAiCIAiC2qhHJAiCIAiC2qh IpkDSRcBiZraOpI8Dm5jZBTWu53bgK308ZYyZxXC/IBiAhCMSBEFvNESGTgAWB2pzRIDNgJnTx4sCfwE2B+5J196vY1FBEMw44\} qEQTA1uupeqJm92vhY0uzpw3Fm9mIvXxIEwQAhHJEqCFrRDXRJuhD4PoCk981sqKQuYH9qF+ATwBPA8WZ2WXre2sAtwJbACGARY DSwHXAA8D1gInCqmR1TxWIIbQJcBXzazMYWro8G7gTOAp5KP8tBwBLAw8C+ZnZP4fk7pDUuBowBzgZGml1IUAdBJqJYNQiCVjRrackersCharackerOwJ/AZPgSyUHjsad0J2B5YDTgX0krRr4euHAAcD2wDrAiviN/53gFXxG/xRkparaL03AC/hTg4AkoYBqwEXFp53EnAksBLwOHCz MXT838EHA8cBiwDHII7LcdVtMYgCFoQjkgQBL1iZm8CE4BJZvaipDmAvYG9zexGM/uPmV0EnIJHEor8zMz+amb3An8G3jKzA83& X8Cx6TnLVrTO94GLKTgieATmL2b2eOHasWZ2hZkZsBPwMvCjxnqBn5vZb8xsjJldBfwU2EPSR6pYZxAEUxKpmSAIPgzLALMCoyInterpretation and the properties of t+E/ARSbMUrv2r8PF44D+NT8xsgiSA4vNnlAuAfSWtCjwAbAuUUz+3FdbwnqQHgOUkzQd8EjhO0tGF5w9Ja/w0YBWuNQiCRDgiQR BMC40aiUYU9dt4aqNBo6B1YuHapF6+RxbM7DFJ9+FRkTmABYBRpaeV1zQT3nHT+Ln2xutbinQBYwmCIAuRmgmCYGp003Q0HgfevAlgered and the contraction of the contractioVGnmr8A9YH9ptKUWc7Cj4vADbFC2WvNrM3So9/ofFBSrd8Hvhr6r55CfhM6edaGa+Jqb1zKAg6lYiIBEHQG42b71vAwpIWM7Oni UKTd/Au2HWxIs8p9YB046b+eXAycAOuPZImaMlvYB3xBwMzAacmx4bkR4fC/wRr185G7jWzCa2+F5BEFRARESCIGhFN80IxkXA7 MA/JSOADMeLU48EHsULOn9mZkeWvr6371fV+qYgFddeA7wC3NziKWfgAm33AwsCa5nZC+1rTwL2AX4M/BM4DXdSdq1w3UEQl0jc  $7072 + CAIOockB3 + nmR1 \\ auLY4 \\ riOytpndWdPSgiBoQaRmgiColdSx0 \\ udeZGbPT8P32QTXB1kN + G41 \\ qwuCIDfhiARBUDf34kqnvdEnderfalled for the first of the following properties of the first of$ tabZpqNM4ABgG7GRmz7X6Pt07wCAI8hGpmSAIgiAIaiOKVYMgCIIgqI1wRIIgCIIqqI1wRIIgCIIgqI1wRIIgCIIqqI1wRIIgCIIqqI1wRIIqCIIqqIIwRIIqCIIqqI1wRIIqCIIqqIIwRIIqCIIqqIIwRIIqCIIqqIIqxIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqxIIqqIIqxIIqxIIqqIIqxIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqxIIqqIIqxIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqqIIqxIIqxIIqqIIqxIIqqIIqxIIqxIIqqIIqxIIqxIIqqIIqxIIqxIIqqIIqxIIqxIIqqIIqxIIqxIIqqIIqxIIqxIIqqIIqxIIqxIIqxIIqxIIqxIIqxIIqqIIqx 1wRIIgCIIgqI1wRIIgCIIgqI1wRIIgCIIgqI3/B9ifa7YBSWs0AAAAAElFTkSuQmCCotation=90);



Item\_Type

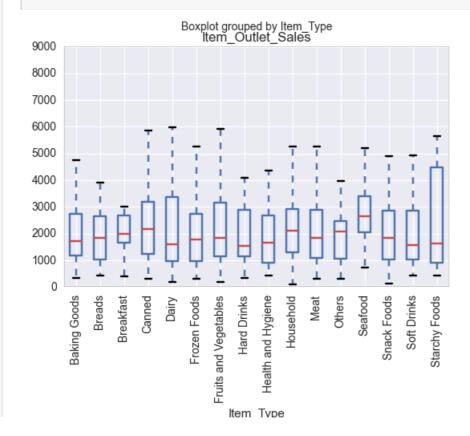
#### In [24]:

```
data_OUT035.boxplot(column='Item_Outlet_Sales', by='Item_Type')
plt.xticks(rotation=90);
```



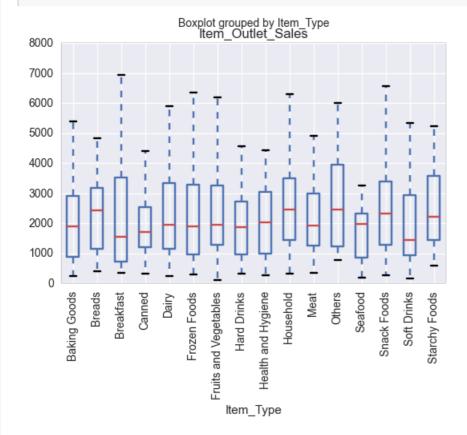
## In [25]:

data\_OUT045.boxplot(column='Item\_Outlet\_Sales', by='Item\_Type')
plt.xticks(rotation=90);



#### In [26]:

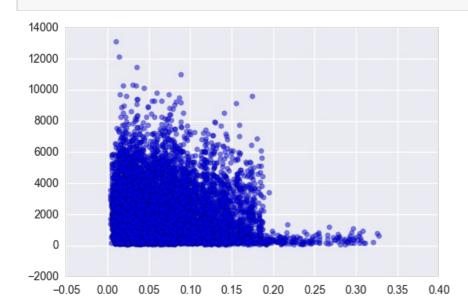
```
data_OUT049.boxplot(column='Item_Outlet_Sales', by='Item_Type')
plt.xticks(rotation=90);
```



# Analysis of item visibility with item outlet sales

## In [27]:

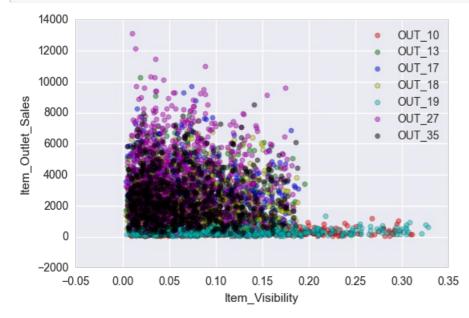
plt.scatter(data.Item\_Visibility, data.Item\_Outlet\_Sales, alpha=.5);



## In [28]:

```
ax = data_OUT010.plot(kind='scatter', x = 'Item_Visibility', y = 'Item_Outlet_Sales', c='r', alpha=
0.5, label='OUT_10')
data_OUT013.plot(kind='scatter', x = 'Item_Visibility', y = 'Item_Outlet_Sales', c='g', ax=ax, alph
```

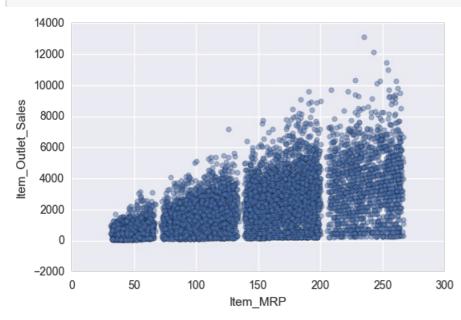
```
a=0.5, label='OUT_13')
data_OUT017.plot(kind='scatter', x = 'Item_Visibility', y = 'Item_Outlet_Sales', c='b', ax=ax, alph
a=0.5, label='OUT_17')
data_OUT018.plot(kind='scatter', x = 'Item_Visibility', y = 'Item_Outlet_Sales', c='y', ax=ax, alph
a=0.5, label='OUT_18')
data_OUT019.plot(kind='scatter', x = 'Item_Visibility', y = 'Item_Outlet_Sales', c='c', ax=ax, alph
a=0.5, label='OUT_19')
data_OUT027.plot(kind='scatter', x = 'Item_Visibility', y = 'Item_Outlet_Sales', c='m', ax=ax, alph
a=0.5, label='OUT_27')
data_OUT035.plot(kind='scatter', x = 'Item_Visibility', y = 'Item_Outlet_Sales', c='k', ax=ax, alph
a=0.5, label='OUT_35')
plt.legend(loc='best');
```



# Correlation between item prices and sales

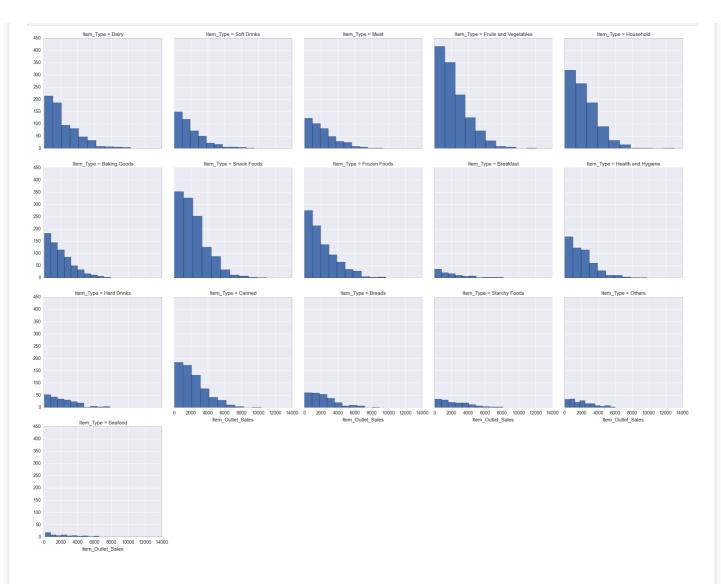
```
In [29]:
```

```
data.plot(kind='scatter', x = 'Item_MRP', y = 'Item_Outlet_Sales', alpha=.5);
```



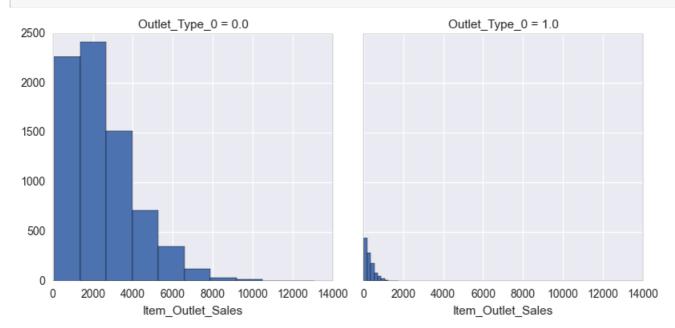
## In [30]:

```
sns.FacetGrid(data, col='Item_Type', size=4, col_wrap=5) \
   .map(plt.hist, 'Item_Outlet_Sales') \
   .add_legend();
```



### In [31]:

```
sns.FacetGrid(data, col='Outlet_Type_0', size=4) \
   .map(plt.hist, 'Item_Outlet_Sales') \
   .add_legend();
```



#### In [ ]:

```
Numerical:
```

```
histgram, density plot, gaussion plot

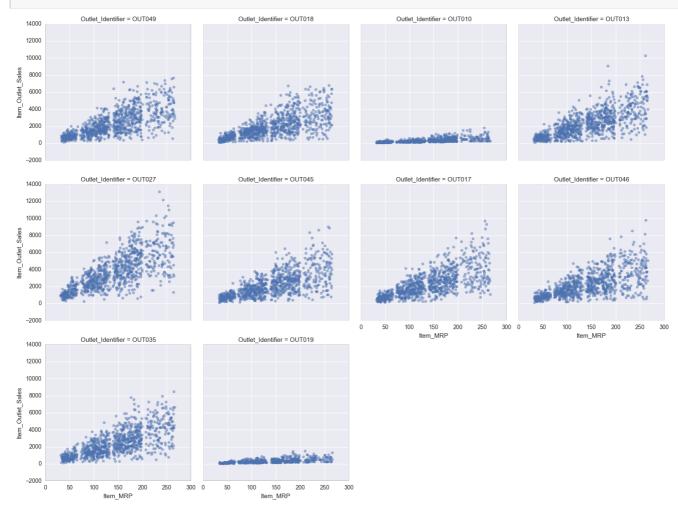
multivariate analysis: Scatter, Histogram

Categorical:

1- Bar, Factor plot, Pie chart,
```

#### In [32]:

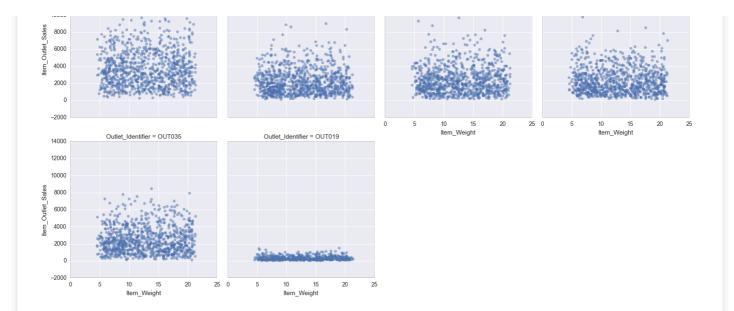
```
sns.FacetGrid(data, col='Outlet_Identifier', col_wrap=4, size=4) \
   .map(plt.scatter, 'Item_MRP', 'Item_Outlet_Sales', c='b', alpha=0.5) \
   .add_legend();
```



## In [33]:

```
sns.FacetGrid(data, col='Outlet_Identifier', col_wrap=4, size=4) \
   .map(plt.scatter, 'Item_Weight', 'Item_Outlet_Sales', c='b', alpha=0.5) \
   .add_legend();
```





#### In [34]:

#drop the columns whose data types are converted. Item type which is of #16 categories has been reduced to 3 categories and instead of the establishment year #we consider age of the stores for the analysis.

data = data.drop('Item\_Type' , axis = 1)

#### In [35]:

data.head()

#### Out[35]:

	Item_Identifier	Item_MRP	Item_Outlet_Sales	Item_Visibility	Item_Weight	Outlet_Establishment_Year	Outlet_Identifier
0	FDA15	249.8092	3735.1380	0.016047	9.30	1999	OUT049
1	DRC01	48.2692	443.4228	0.019278	5.92	2009	OUT018
2	FDN15	141.6180	2097.2700	0.016760	17.50	1999	OUT049
3	FDX07	182.0950	732.3800	0.017834	19.20	1998	OUT010
4	NCD19	53.8614	994.7052	0.009780	8.93	1987	OUT013

### 5 rows × 37 columns

•

#### In [36]:

data.head()

## Out[36]:

	Item_Identifier	Item_MRP	Item_Outlet_Sales	Item_Visibility	Item_Weight	Outlet_Establishment_Year	Outlet_Identifier
0	FDA15	249.8092	3735.1380	0.016047	9.30	1999	OUT049
1	DRC01	48.2692	443.4228	0.019278	5.92	2009	OUT018
2	FDN15	141.6180	2097.2700	0.016760	17.50	1999	OUT049
3	FDX07	182.0950	732.3800	0.017834	19.20	1998	OUT010
4	NCD19	53.8614	994.7052	0.009780	8.93	1987	OUT013

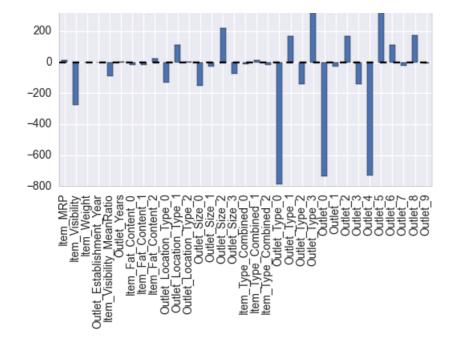
#### 5 rows × 37 columns

## In [37]:

#Divide the data set back to train and test
train=data.loc[data['source']=='train']

```
test=data.loc[data['source']=='test']
train.head
#Drop unnecessary columns
test.drop(['source','Item Outlet Sales'],axis=1,inplace=True)
train.drop(['source'],axis=1,inplace=True)
In [38]:
#Creating a baseline model
mean sales=train['Item Outlet Sales'].mean()
#Define a dataframe with IDs for submission
basel=test[['Item Identifier','Outlet Identifier']]
base1['Item Outlet Sales']=mean sales
In [39]:
base1['Item_Outlet_Sales']=base1['Outlet_Identifier'].apply(lambda x: train.loc[train['Outlet_Ident
ifier']==x]
                                                             ['Item Outlet Sales'].mean())
In [ ]:
y = ax + b
In [40]:
#function to create submission file
#define target and ID Columns for submission
target = 'Item_Outlet_Sales'
IDCol = ['Item_Identifier','Outlet_Identifier']
from sklearn import cross_validation, metrics
In [41]:
# Linear Regression
from sklearn.linear_model import LinearRegression, Lasso, Ridge
from sklearn.ensemble import AdaBoostRegressor
%matplotlib inline
predictors = [x for x in train.columns if x not in [target]+IDCol]
#print predictors
alg1= LinearRegression(normalize=True)
In [42]:
#fit the algorithm on the data
alg1.fit(train[predictors],train[target])
Out[42]:
LinearRegression(copy_X=True, fit_intercept=True, normalize=True)
In [43]:
#predict training data set
train predictions = alg1.predict(train[predictors])
In [44]:
#performs cross validation
cv score =
cross_validation.cross_val_score(alg1,train[predictors],train[target],cv=20,scoring='mean_squared_e
rror')
cv score=np.sqrt(np.abs(cv score))
4
In [45]:
```

```
#Print model report
print "\nModel Report :"
print "RMSE : %.4g" % np.sqrt(metrics.mean_squared_error(train[target].values,train_predictions))
print "CV Score : Mean - %.4g | Std - %.4g | Min - %.4g | Max - %.4g"%(np.mean(cv_score),np.std(cv
_score), np.min(cv_score), np.max(cv_score))
Model Report :
RMSE : 1127
CV Score: Mean - 1132 | Std - 45.02 | Min - 1075 | Max - 1209
In [46]:
#Predict on testing data
test[target] = alg1.predict(test[predictors])
In [47]:
#Ridge Regression
predictors = [x for x in train.columns if x not in [target]+IDCol]
alg2=Ridge(alpha=0.05, normalize=True)
#fit the algorithm on the data
alg2.fit(train[predictors], train[target])
Out[47]:
Ridge(alpha=0.05, copy X=True, fit intercept=True, max iter=None,
   normalize=True, solver='auto', tol=0.001)
In [48]:
#predict training data set
train predictions = alg2.predict(train[predictors])
#Predict on testing data
test[target] = alg2.predict(test[predictors])
In [49]:
#performs cross validation
cv score =
cross_validation.cross_val_score(alg2,train[predictors],train[target],cv=20,scoring='mean_squared_e
cv_score=np.sqrt(np.abs(cv_score))
#Print model report
print "\nModel Report :"
print "RMSE : %.4g" % np.sqrt(metrics.mean_squared_error(train[target].values,train_predictions))
print "CV Score: Mean - %.4g | Std - %.4g | Min - %.4g | Max - %.4g"% (np.mean(cv score), np.std(cv
 score), np.min(cv score), np.max(cv score))
4
Model Report :
RMSE : 1129
CV Score : Mean - 1130 | Std - 44.63 | Min - 1076 | Max - 1217
In [50]:
coef2 = pd.Series(alg2.coef_,predictors)
coef2.plot(kind='bar',title = 'Model Coefficients')
Out[50]:
<matplotlib.axes. subplots.AxesSubplot at 0x1f25f908>
                          Model Coefficients
  800
  600
  400
```



#### In [51]:

```
ada1=AdaBoostRegressor(base_estimator=alg1,learning_rate=0.9)
#fit the algorithm on the data
ada1.fit(train[predictors],train[target])
```

#### Out[51]:

## In [52]:

```
#predict training data set
train_predictions = adal.predict(train[predictors])

#Predict on testing data
test[target] = adal.predict(test[predictors])
```

## In [53]:

```
cv_score =
cross_validation.cross_val_score(ada1,train[predictors],train[target],cv=20,scoring='mean_squared_e
rror')
cv_score=np.sqrt(np.abs(cv_score))
#Print model report
print "\nModel Report :"
print "RMSE: %.4g" % np.sqrt(metrics.mean_squared_error(train[target].values,train_predictions))
print "CV Score: Mean - %.4g | Std - %.4g | Min - %.4g | Max - %.4g"%(np.mean(cv_score),np.std(cv_score),np.min(cv_score),np.max(cv_score))
```

```
Model Report :
RMSE : 1127
CV Score : Mean - 1157 | Std - 40.8 | Min - 1076 | Max - 1224
```

#### In [54]:

```
#DecisionTree Model
from sklearn.tree import DecisionTreeRegressor
predictors=[x for x in train.columns if x not in [target]+IDCol]
alg3=DecisionTreeRegressor(max_depth=15,min_samples_leaf=100)
ada2=AdaBoostRegressor(base_estimator=alg3) #,learning_rate=0.9)
ada2.fit(train[predictors],train[target])
```

#### Out[54]:

#### In [55]:

```
alg3=DecisionTreeRegressor(max_depth=15,min_samples_leaf=100)
alg3.fit(train[predictors],train[target])
```

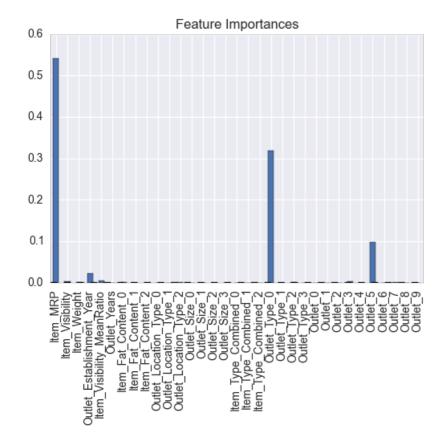
#### Out [55]:

#### In [56]:

```
coef5=pd.Series(alg3.feature_importances_,predictors)
coef5.plot(kind='bar',title='Feature Importances')
```

#### Out[56]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x1ad5fcc0>



#### In [57]:

```
cv_score =
cross_validation.cross_val_score(ada2,train[predictors],train[target],cv=20,scoring='mean_squared_e
rror')
cv_score=np.sqrt(np.abs(cv_score))
#Print model report
print "\nModel Report :"
print "RMSE : %.4g" % np.sqrt(metrics.mean_squared_error(train[target].values,train_predictions))
print "CV Score : Mean - %.4q | Std - %.4q | Min - %.4q | Max - %.4q"%(np.mean(cv_score),np.std(cv_score))
```

```
score), np.min(cv score), np.max(cv score))
 4
Model Report :
RMSE : 1127
CV Score : Mean - 1250 | Std - 39.42 | Min - 1180 | Max - 1340
In [58]:
 #RandomForestRegressor
from sklearn.ensemble import RandomForestRegressor
predictors=[x for x in train.columns if x not in [target]+IDCol]
alg5=RandomForestRegressor(n_estimators=200,max_depth=3,min_samples_leaf=300,n_jobs=4)
 ada2=AdaBoostRegressor(base estimator=alg5)#,learning rate=0.9)
 #fit the algorithm on the data
 ada2.fit(train[predictors],train[target])
 coef5=pd.Series(ada2.feature importances ,predictors)
 coef5.plot(kind='bar',title='Feature Importances')
 #Print model report
 print "\nModel Report :"
 print "RMSE : %.4g" % np.sqrt(metrics.mean_squared_error(train[target].values,train_predictions))
print "CV Score: Mean - %.4g | Std - %.4g | Min - %.4g | Max - %.4g"%(np.mean(cv score), np.std(cv
 _score), np.min(cv_score), np.max(cv_score))
Model Report :
RMSE : 1127
CV Score : Mean - 1250 | Std - 39.42 | Min - 1180 | Max - 1340
                                                       Feature Importances
  0.6
   0.5
  0.4
  0.3
   0.2
   0.1
  0.0
             Item_Visibility
Item_Visibility
Item_Visibility
Item_Visibility
Item_Visibility
Item_Fat_Content_0
Item_Fat_Content_0
Item_Fat_Content_1
Item_Fat_Content_1
Item_Tat_Content_1
Item_Tat_Content_1
Outlet_Location_Type_0
Outlet_Size_0
Outlet_Size_0
Outlet_Size_0
Outlet_Size_0
Outlet_Size_0
Outlet_Type_Combined_1
Item_Type_Combined_1
Item_Type_Combined_1
Item_Type_Combined_1
Item_Type_Combined_1
Item_Type_Combined_1
Item_Type_Combined_1
Item_Type_Combined_1
Outlet_1
Outle
In [ ]:
from sklearn.ensemble import GradientBoostingRegressor
 from sklearn.grid_search import GridSearchCV
 predictors=[x for x in train.columns if x not in [target]+IDCol]
 alg1= LinearRegression(normalize=True)
 alg7=GradientBoostingRegressor(learning rate=0.1, max depth=5, random state=10,
                                                                       n estimators=70, min samples split=1000, min samples leaf=50,
                                                                         max leaf nodes=7,max features='sqrt')#,init=alg1)#loss='huber'
alg7.fit(train[predictors], train[target])
```

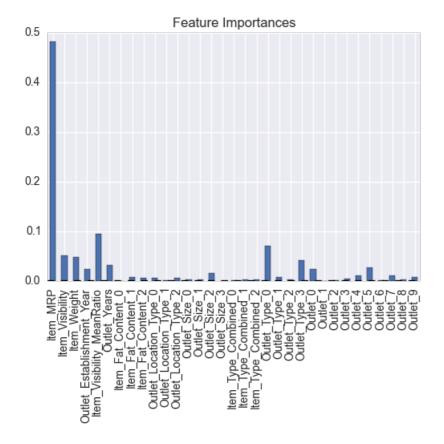
# param test1 = {'n estimators':range(20,81,10)}

# gsearch1 = GridSearchCV(estimator = GradientBoostingRegressor(learning rate=0.1,

```
min_samples_split=500,min_samples_leaf=50,max_depth=8,max_features='sqrt',subsample=0.8,random_state),
# param_grid = param_test1, scoring='mean_squared_error',n_jobs=4,iid=False, cv=5)
# gsearch1.fit(train[predictors],train[target])

coef5=pd.Series(alg7.feature_importances_,predictors)
coef5.plot(kind='bar',title='Feature Importances')
#Print model report
print "\nModel Report :"
print "RMSE: %.4g" % np.sqrt(metrics.mean_squared_error(train[target].values,train_predictions))
print "CV Score: Mean - %.4g | Std - %.4g | Min - %.4g | Max - %.4g"%(np.mean(cv_score),np.std(cv_score),np.min(cv_score),np.max(cv_score))
```

```
Model Report :
RMSE : 1127
CV Score : Mean - 1250 | Std - 39.42 | Min - 1180 | Max - 1340
```



#### In [ ]:

```
from sklearn.ensemble import GradientBoostingRegressor
from sklearn.grid_search import GridSearchCV

param_test2 = {'max_depth':range(5,16,2), 'min_samples_split':range(200,1001,200)}
gsearch2 = GridSearchCV(estimator = GradientBoostingRegressor(learning_rate=0.1, n_estimators=70, m
ax_features='sqrt', subsample=0.8, random_state=10),
param_grid = param_test2, scoring='mean_squared_error',n_jobs=4,iid=False, cv=5)
gsearch2.fit(train[predictors],train[target])
gsearch2.grid_scores_, gsearch2.best_params_, gsearch2.best_score_
#Print model report
print "\nModel Report :"
print "RMSE : %.4g" % np.sqrt(metrics.mean_squared_error(train[target].values,train_predictions))
print "CV Score : Mean - %.4g | Std - %.4g | Min - %.4g | Max - %.4g"%(np.mean(cv_score),np.std(cv_score),np.min(cv_score),np.max(cv_score))
```

#### In [ ]:

```
from sklearn.ensemble import GradientBoostingRegressor
from sklearn.grid_search import GridSearchCV

param_test3 = {'min_samples_split':range(1000,2100,200), 'min_samples_leaf':range(30,71,10)}
gsearch3 = GridSearchCV(estimator = GradientBoostingRegressor(learning_rate=0.1,
```

```
n_estimators=70,max_depth=5,max_features='sqrt', subsample=0.8, random_state=10),
param_grid = param_test3, scoring='mean_squared_error',n_jobs=4,iid=False, cv=5)
gsearch3.fit(train[predictors],train[target])
gsearch3.grid_scores_, gsearch3.best_params_, gsearch3.best_score_
```

#### In [ ]:

```
from sklearn.ensemble import GradientBoostingRegressor
from sklearn.grid_search import GridSearchCV

param_test4 = {'max_features':range(2,20,2)}
gsearch4 = GridSearchCV(estimator = GradientBoostingRegressor(learning_rate=0.1,
n_estimators=70,max_depth=5, min_samples_split=1000, min_samples_leaf=50, subsample=0.8,
random_state=10),
param_grid = param_test4, scoring='mean_squared_error',n_jobs=4,iid=False, cv=5)
gsearch4.fit(train[predictors],train[target])
gsearch4.grid_scores_, gsearch4.best_params_, gsearch4.best_score_
```

#### In [ ]:

7+ Models === the less rmse we be chosen  ${\bf for}$  depoyment

#### In [ ]:

```
#Export submission file
filename= "Submission.csv"
IDCol.append(target)
submission = pd.DataFrame({x : test[x] for x in IDCol})
submission.to_csv("C:/Users/vamsi/Bigmartsales/"+filename,index=False)
```