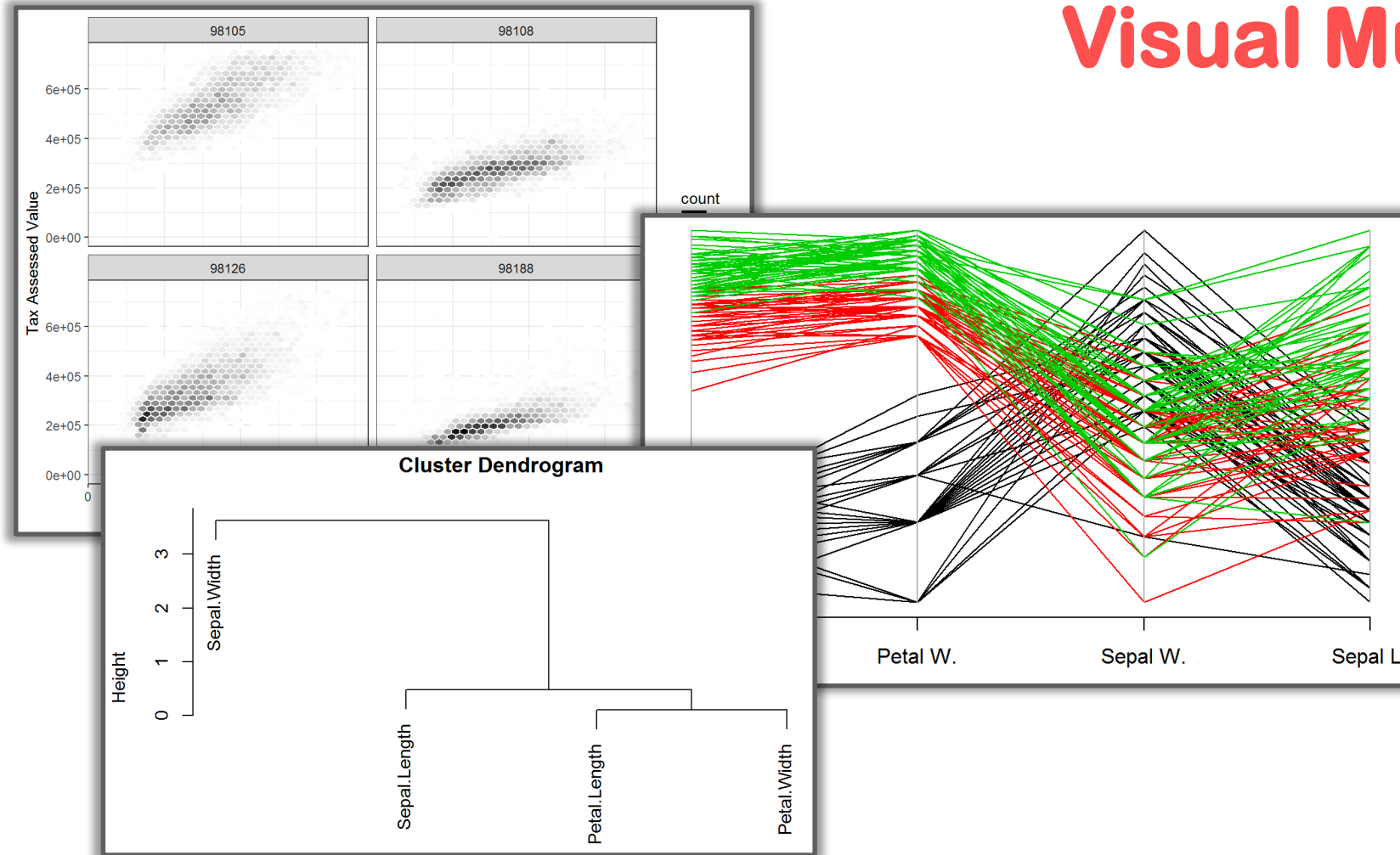


## Visual Multivariate EDA



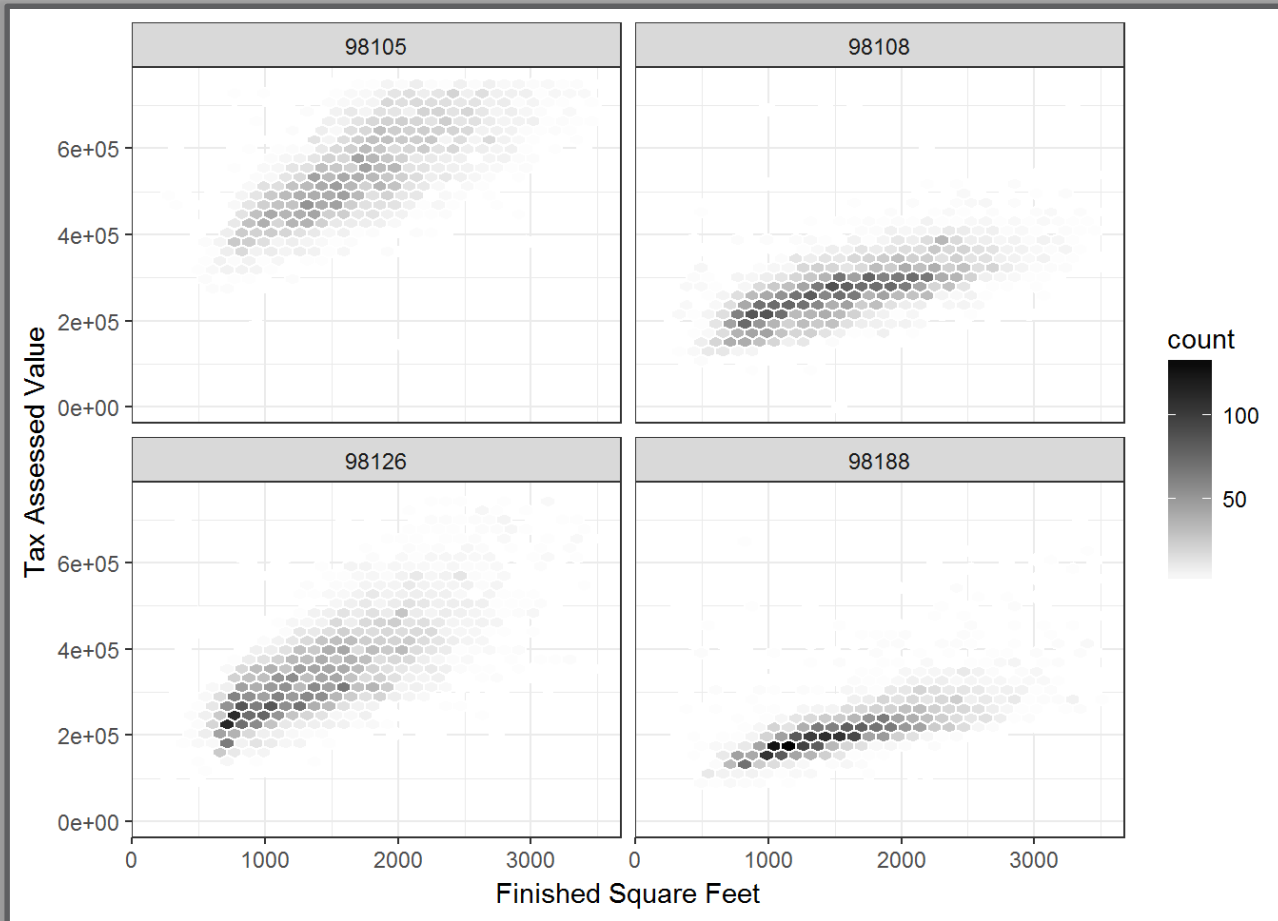
- Visualization: conditioning or facets
- Parallel Coordinate Plots
- Cluster Dendrogram

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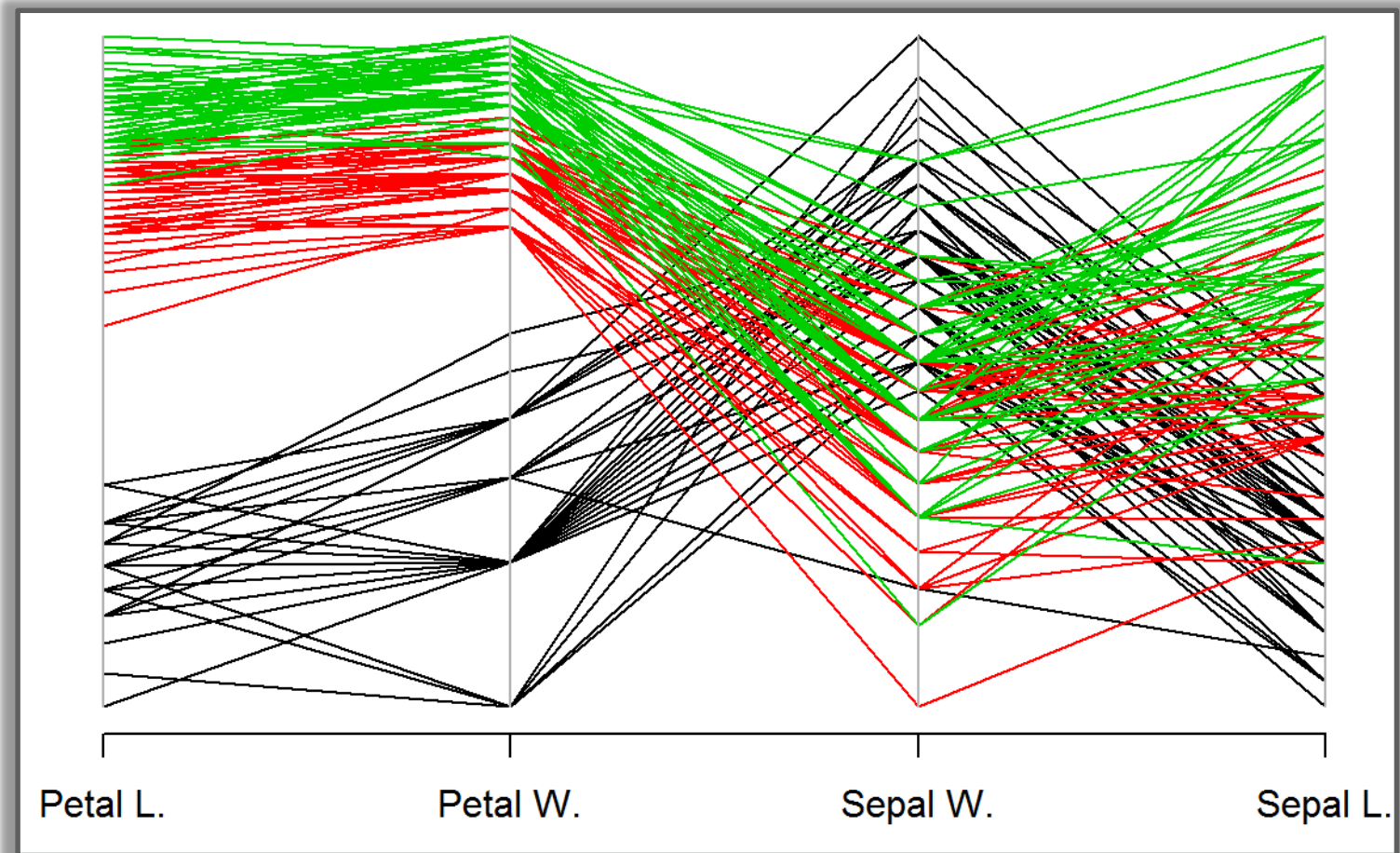
Department of Computer Science  
North Carolina State University

# Conditioning or Facets: Visualize Multiple Plots



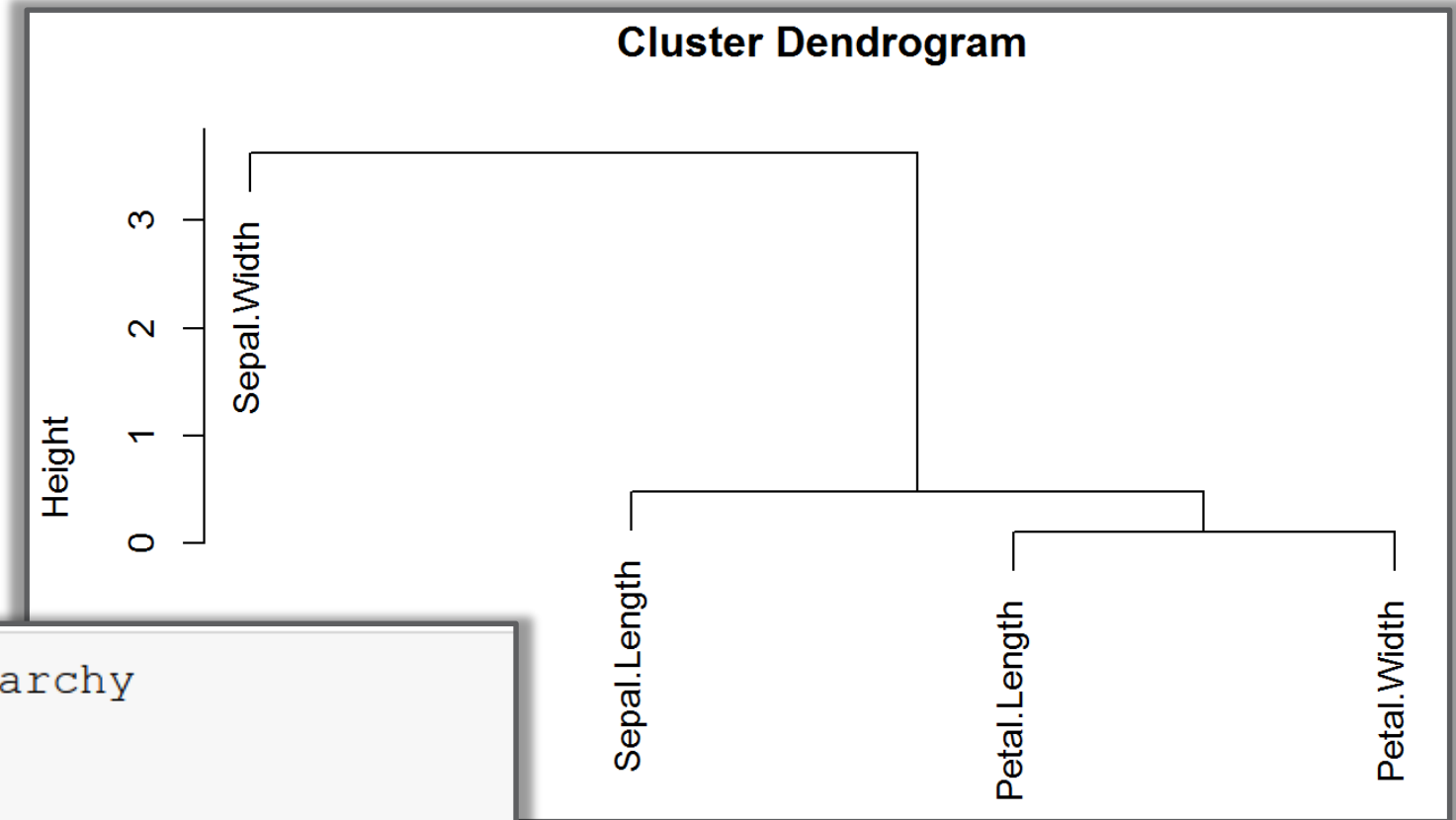
```
1 import seaborn as sns
2 sns.factorplot(x="SqFtTotLiving",
3               y="TaxAssessedValue",
4               row="ZipCode",
5               data=kc_tax,
6               kind='strip')
7 plt.show()
```

# Parallel Coordinates Plot



```
1 from pandas.plotting import parallel_coordinates
2 parallel_coordinates(df, 'species')
3 plt.show()
```

# Hierarchical Clustering of Multiple Variables



```
1 from scipy.cluster import hierarchy
2 df = sns.load_dataset("iris")
3 data=df.corr()
4 Z = hierarchy.linkage(data, 'single')
5 plt.figure()
6 dn = hierarchy.dendrogram(Z, labels=data.columns)
```