Weekly Lecture Note

‣ Warm-Up Activity
- Visualization: Mention in Oscar Speeches by Category
- The visualization is trying to show the percentage of certain words being mentioned in Oscar speeches
- Its method: heat map
- Data used: the Academy Awards category data, literary data
- Strengths
  - Easy to observe what vocabularies are most often used in Oscar speeches
  - Easy to observe how the words being used differ among different award categories
- Weakness:
  - The color gray seems less important than blue although in fact gray represents a higher percentage than blue, which might cause confusion to viewers
  - Ways to improve: change a different color map

‣ Interactivity
- Linking & brushing
  - Both could be used to filter or form selections of data
  - Approaches: concurrent filtering, index-based selection
- bqplot
  - Scales: LogScale / LinearScale / DateScale / OrdinalScale / ColorScale
  - Axes
  - Marks: HeatMap / GridHeatMap / Bars / Graph
  - Figures
  - Interactions: FastIntervalSelector / IndexSelector / BrushIntervalSelector & BrushSelector / MultiSelector / LassoSelector / HandDraw / PanZoom / Tooltip

‣ Dashboards
- e.g. Tableau, Glueviz