Tufte’s Five Secrets

• Find good examples and copy them
• Order data by performance, not alphabetically
• Convert numbers to graphics whenever possible
• Demonstrate your interest
• Establish your credibility
<table>
<thead>
<tr>
<th>Homophily</th>
<th>Un-stdized Coefficient</th>
<th>Sig.</th>
<th>R-square</th>
<th>Density Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Btwn Clusters</td>
<td>0.559</td>
<td>- -</td>
<td></td>
<td>0.94</td>
</tr>
<tr>
<td>Cluster 1</td>
<td>0.383</td>
<td>0.0000</td>
<td></td>
<td>0.75 0.68 0.61 0.50</td>
</tr>
<tr>
<td>Cluster 2</td>
<td>0.310</td>
<td>0.0000</td>
<td></td>
<td>0.87 0.19 0.57 0.51</td>
</tr>
<tr>
<td>Cluster 3</td>
<td>0.235</td>
<td>0.0032</td>
<td></td>
<td>0.80 0.45 0.18</td>
</tr>
<tr>
<td>Cluster 4</td>
<td>0.257</td>
<td>0.0004</td>
<td></td>
<td>0.82 0.42</td>
</tr>
<tr>
<td>Outliers</td>
<td>-0.174</td>
<td>0.0224</td>
<td></td>
<td>0.39</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Consensus</th>
<th>Baseline</th>
<th>Cluster 1</th>
<th>Cluster 2</th>
<th>Cluster 3</th>
<th>Cluster 4</th>
<th>Outliers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consensus proportion</td>
<td>0.63*</td>
<td>0.69*</td>
<td>0.70*</td>
<td>0.71*</td>
<td>0.70*</td>
<td>0.48*</td>
</tr>
</tbody>
</table>

* p<0.01
For all clusters: $p<0.001$

Outliers: $p<0.035$

**Homophily**

**Intra- vs. Inter-group Ties**

**Consensus**

**Relative similarity of perception within groups**
EXHIBIT 1

Figure 2.2: Share of Total GSP Imports for Top Shipping Countries, 1992

Source: U.S. Department of Commerce/Bureau of the Census
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Source: U.S. Department of Commerce/Bureau of the Census
An Upper-Middle-Class Crisis

Change in world income by earnings percentile, 1988–2008

It’s not the poorest who experienced the lowest income growth; earnings among the upper middle class have stagnated.

The world’s wealthiest enjoyed the third-highest income growth, with an almost 65 percent increase over the 20-year period.
**Are Inventors Born or Made?**

It would be nice to think we could all be great inventors, but history says otherwise. Still, there's wide agreement that inventiveness is a quality that can be learned.

<table>
<thead>
<tr>
<th>Country</th>
<th>Invention Can Be Learned</th>
<th>Invention Is Inherited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indonesia</td>
<td>99%</td>
<td>1%</td>
</tr>
<tr>
<td>China</td>
<td>92%</td>
<td>8%</td>
</tr>
<tr>
<td>South Korea</td>
<td>85%</td>
<td>15%</td>
</tr>
<tr>
<td>Singapore</td>
<td>84%</td>
<td>16%</td>
</tr>
<tr>
<td>Russia</td>
<td>84%</td>
<td>16%</td>
</tr>
<tr>
<td>Kenya</td>
<td>82%</td>
<td>18%</td>
</tr>
<tr>
<td>South Africa</td>
<td>80%</td>
<td>20%</td>
</tr>
<tr>
<td>U.K.</td>
<td>78%</td>
<td>22%</td>
</tr>
<tr>
<td>Australia</td>
<td>77%</td>
<td>23%</td>
</tr>
<tr>
<td>India</td>
<td>77%</td>
<td>23%</td>
</tr>
<tr>
<td>Mexico</td>
<td>77%</td>
<td>23%</td>
</tr>
<tr>
<td>Sweden</td>
<td>76%</td>
<td>24%</td>
</tr>
<tr>
<td>U.S.</td>
<td>75%</td>
<td>25%</td>
</tr>
<tr>
<td>Brazil</td>
<td>75%</td>
<td>25%</td>
</tr>
<tr>
<td>Turkey</td>
<td>73%</td>
<td>27%</td>
</tr>
<tr>
<td>Germany</td>
<td>70%</td>
<td>30%</td>
</tr>
<tr>
<td>UAE</td>
<td>43%</td>
<td>57%</td>
</tr>
</tbody>
</table>
Figure 5: Regional Distribution of Exports

- US: 35.41%
- EU: 32.8%
- Middle East: 12.18%
- Asia: 10.3%
- Other European: 5.92%
- Africa: 2.07%
- Other: 0.05%
2009 U.S. Government Expenditures
Approximately $4 Trillion

- Social Security Administration: $725 Billion (18%)
- Department of Health and Human Service: $818 Billion (20%)
- Department of Defense: $714 Billion (18%)
- Department of the Treasury: $640 Billion (16%)
- Interest on the Public Debt: $392 Billion (10%)
- All Other Departments: $709 Billion (18%)

Note: Tax Receipts for 2009 are approximately $2.1 Trillion less $4 Trillion equals an estimated budget shortfall of $1.8 to $1.9 Trillion.

Source: U.S. Treasury Department
U.S. Imports

Note: Because of rounding figures may not add up to the totals shown. Exports are domestic exports, f.a.s. imports are not imports for consumption, customs value.

Source: Compiled from official statistics of the U.S. Department of Commerce.
Jordan Top Export Partners

- MENA: 52%
- U.S: 16%
- Iraq: 15%
- India: 13%
- Other: 4%

Jordan Top Import Partners

- MENA: 32%
- Germany: 6%
- China: 11%
- Saudi Arabia: 20%
- Developing Asia: 16%
- Europe: 9%
- Other: 6%
THE BARRIERS TO INVENTION

Not every creative mind actually gets to create, and where or how you live can make a big difference. Respondents saw a lot of potential obstacles in the path of inventors.

INVENTIONS IN NEED OF REINVENTION

- **13%** COMPUTER
- **11%** CAR
- **8%** TELEPHONE

- **20%** among Indian consumers
- **33%** among South African consumers
- **18%** A POOR EDUCATION SYSTEM
- **9%** NO URGENCY TO INVENT
- **5%** POLITICAL INSTABILITY
- **2%** NOTHING LEFT TO INVENT
- **17%** LACK OF RESOURCES
- **12%** FAST PACE OF LIFE STIFLES CREATIVITY
- **14%** A WEAK ECONOMY
- **16%** LACK OF GOVERNMENT PROTECTION FOR INVENTORS' RIGHTS
- **31%** among Indonesian consumers
Chart 2-1. Relative House Prices

Case-Shiller National Home Price Index Divided by the CPI-U Research Series
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Case-Shiller National Home Price Index Divided by the CPI-U Research Series

1987:1=100

Stagnant Wealth for Younger Generations

In 2010, the average person of 20 to 28 had a net worth of $37,223, just slightly more than the average person of 20 to 28 in 1983. In contrast, the average person of 56 to 64 in 2010 had more than twice the wealth that someone the same age would have had 30 years ago.

**Average net worth of people in each age group**
Adjusted for inflation in 2010 dollars

Wealth is measured as assets (including cash, stocks, retirement accounts, businesses and home equity) minus debts (including credit-card balances, mortgages and car loans).
HOUSEHOLD FORMATION
Year-over-year change in the total number of households

AUTO SALES
Seasonally adjusted annual selling rate of cars and light trucks

Sources: Federal Reserve; Census Bureau
Graph 1: Indonesia Economic Growth and Gini Ratio 2002-2011

Source: Adapted from BPS (Indonesia Statistical Bureau), 2011
Figure 10–4 Appreciating Yen / Inverted Y-axis

The Yen: Yen/$ Exchange Rate
U.S. Government Outlays versus Receipts

OMB Projection through 2083, absent policy changes

% of GDP

- Defense
- Other Noninterest
- Social Security
- Medicaid
- Medicare
- Interest on Past Debt
- New Net Interest Receipts

Years:
- 1980
- 1985
- 1990
- 1995
- 2000
- 2005
- 2010
- 2015
- 2020
- 2025
- 2030
- 2035
- 2040
- 2045
- 2050
- 2055
- 2060
- 2065
- 2070
- 2075
- 2080
U.S. Strikes in Yemen

The United States has been conducting a clandestine program to kill militants in Yemen. By one estimate, more than 400 people have been killed since 2009, including about 80 civilians.

Airstrikes, including drones

<table>
<thead>
<tr>
<th>Year</th>
<th>'09</th>
<th>'10</th>
<th>'11</th>
<th>'12</th>
<th>'13*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Militants</td>
<td>2</td>
<td>14</td>
<td>42</td>
<td>193</td>
<td>24</td>
</tr>
<tr>
<td>Civilians</td>
<td>41</td>
<td>6</td>
<td></td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

*Until Jan. 23. One strike in 2002, not shown, killed six militants.

Source: The Long War Journal
Iceland #1  Overall rank

-Based on women's workforce participation and advancement

U.S. #22

Where India Lags

The 2012 Global Gender Gap Report rates countries' levels of equality between the sexes (1 is the highest, 0 the lowest). Iceland is the world's most equal society; India is 105th.

Based on ratio of women to men in high levels of government

Measures access to education and literacy rates of men and women

Measured by gap between women's and men's life expectancy

Indian women rate poorly on economic matters and better in political equality relative to other countries
Is Balkan Trade Still Balkanized?

How free trade agreements are gradually changing trading patterns on the peninsula

By Eugenia Volen
Population and Size of Economy

Figure 1
Source: World Bank

Geographic Breakdown of Trade
Gross Trade (Exports and Imports) as % of GDP

Figure 2
Source: national trade statistics

By Eugenia Volen
Figure 3: Top export markets of SEE-9 countries (comprising top 50% of exports)

By Eugenia Volen
Figure 4: Top import sources for SEE-9 countries (comprising top 50% of imports)

By Eugenia Volen
Figure 5: Coordinator roles in SEE-9 export network

Figure 6: Coordinator roles in SEE-9 import network

Node size represents proximity to other actors in network. Color denotes different levels of coordinator roles.

Generated in Pajek using national trade statistics data
Figure 8: Trading Blocks - Summary of sub-group analyses using Pajek and UCINET

By Eugenia Volen
P-core: at least 2 neighbors in same clique/sub-group
Factions: breaking the group into 3 sub-groups
A Flowchart to Determine What Religion You Should Follow

How Many Gods Do You Want To Worship?
- A Ton of 'Em
  - Do You Want to be Reincarnated?
    - NO
    - YES
      - Meh...
    - Meh...
      - Do You Own a Black Cat?
        - YES
        - NO
      - How Do You Feel About Bacon?
        - IF*cking LOVE Bacon!
        - NO
        - YES
          - Are You Rich and Insane?
            - NO
            - YES
              - You Should be an Atheist
              - You Should be a Scientologist
          - How Do You Feel About Hummus?
            - IF*cking LOVE Hummus
            - NO
            - YES
              - Are You a Naturally Annoying Person?
                - NO
                - YES
                  - You Should Just be a Boring, Generic Christian Then
            - Do You Think Underwear Can Be Magical?
              - NO
              - YES
                - You Should be a Jehovah's Witness
                - You Should be a Mormon
      - Do You Prefer Indian Takeout or Chinese Takeout?
        - Indian
        - Chinese
          - You Should be a Hindu
          - You Should be a Buddhist
      - You Should Follow the Mayan Religion
      - You Should be a Wiccan
      - You Should be Jewish
      - You Should be Muslim