Chart Decoding

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Chart 1
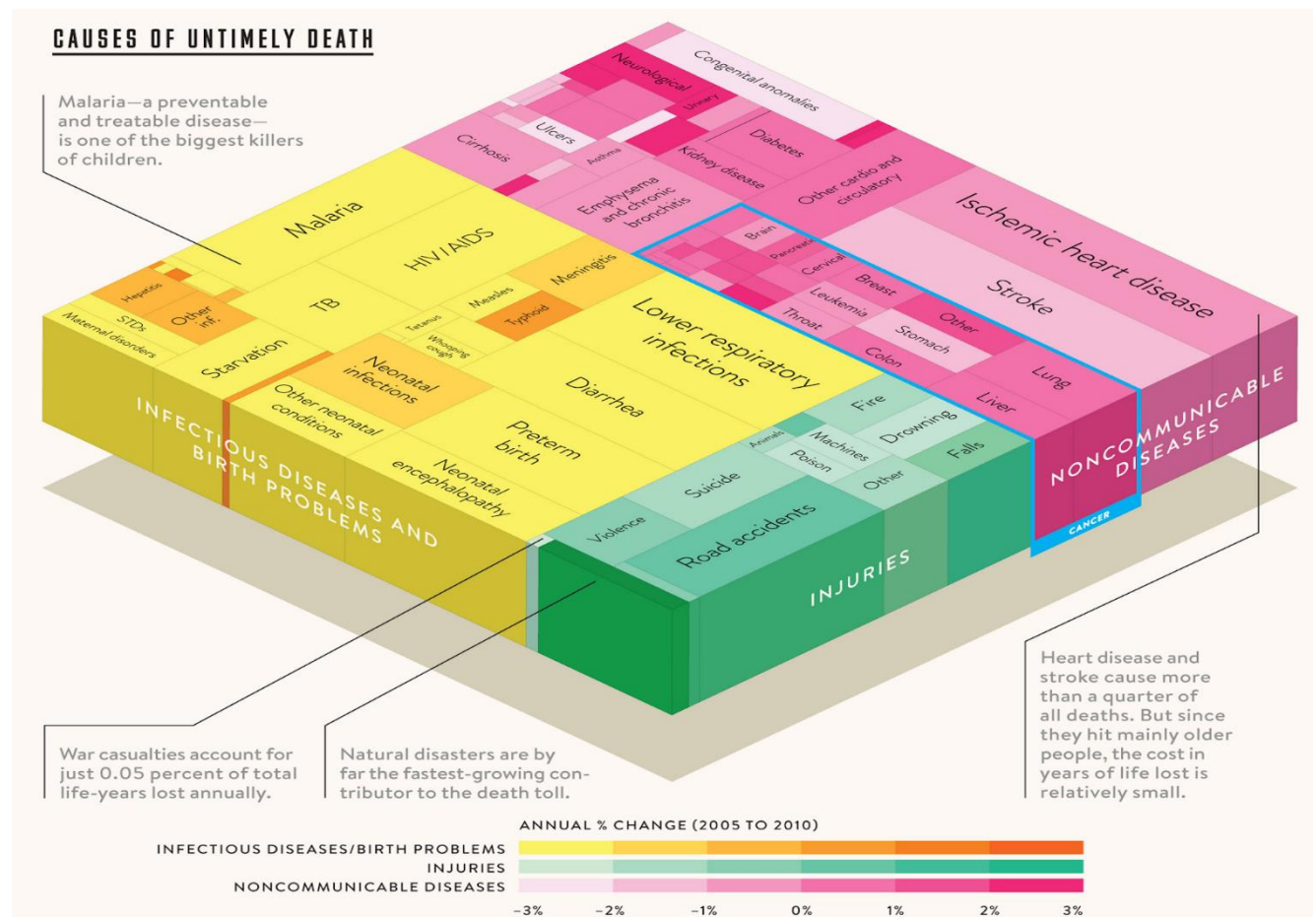
https://www.wired.com/2013/11/infoporn-causes-of-death/
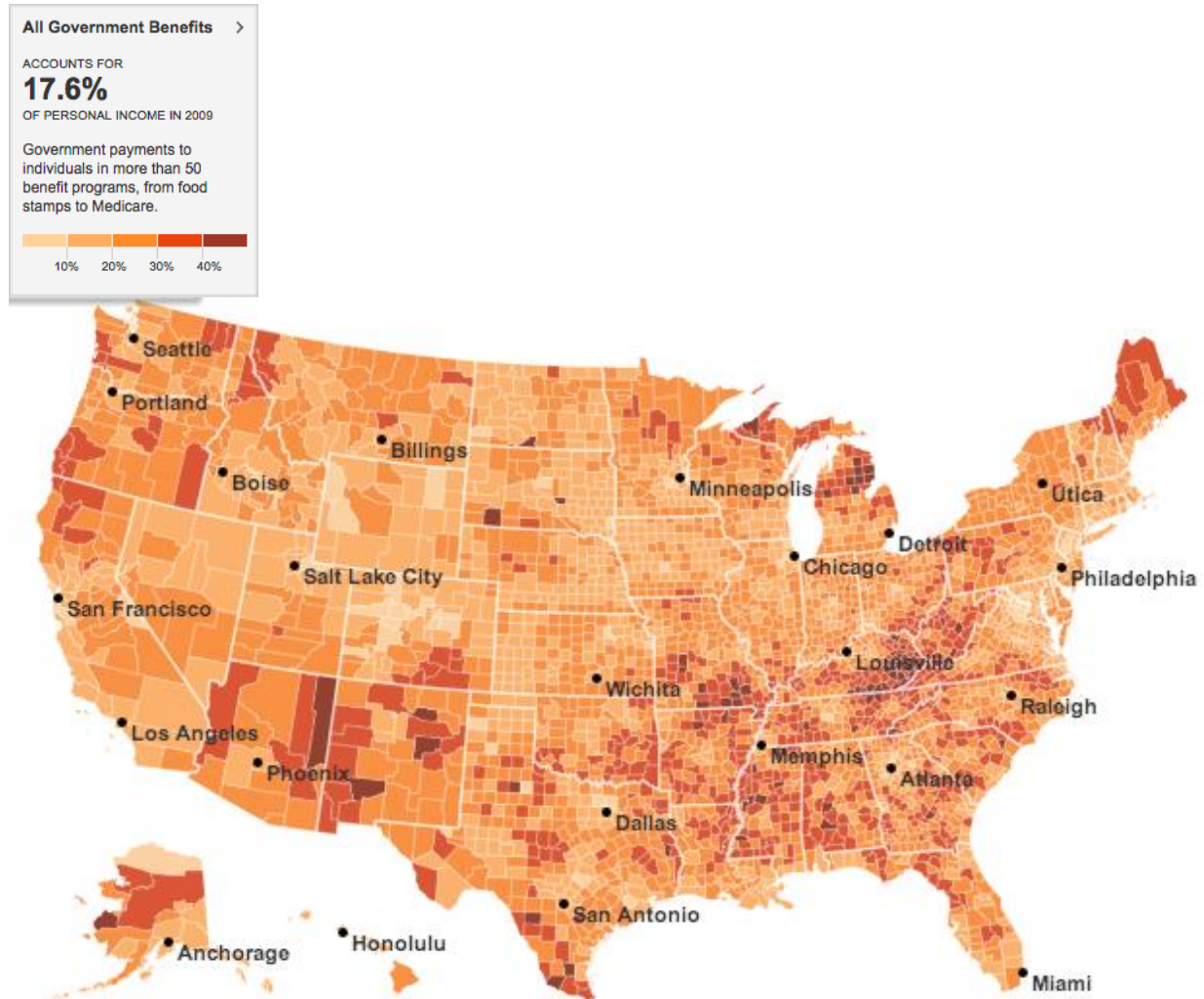
Ans:

- Data items represent: **Disease**
- Mark used for data items are: **Area**
- Data attributes are: **Years of Human Life Lost**, **Type of Disease**, **Annual % Change (2005 to 2010)**
- Visual channels are: **Area, Color Hue, Position, Color Intensity**
- For each attribute:
    o **Years of Human Life Lost** is encoded with **Area**
    o **Type of Disease** is encoded with **Color Hue and Position**
    o **Annual % Change (2005 to 2010)** is encoded with **Color Intensity**

Chart 2

All Government Benefits >

ACCOUNTS FOR
17.6%
OF PERSONAL INCOME IN 2009

Government payments to
individuals in more than 50
benefit programs, from food
stamps to Medicare.

10% 20% 30% 40%

http://www.nytimes.com/interactive/2012/02/12/us/entitlement-map.html

Ans:

- Data items represent: **County**
- Mark used for data items are: **Area**
- Data attributes are: **% Share of Government Benefits in personal income**
- Visual channels are: **Color Intensity**
- For each attribute:
    - **% Share of Government Benefits in personal income** is encoded with **Color Intensity**

Chart 3

Why Peyton Manning's Record Will Be Hard to Beat

By GREGOR AISCH and KEVIN QUEALY   OCT. 19, 2014

The Broncos quarterback set the all-time N.F.L. touchdown passing record — and is still going strong.
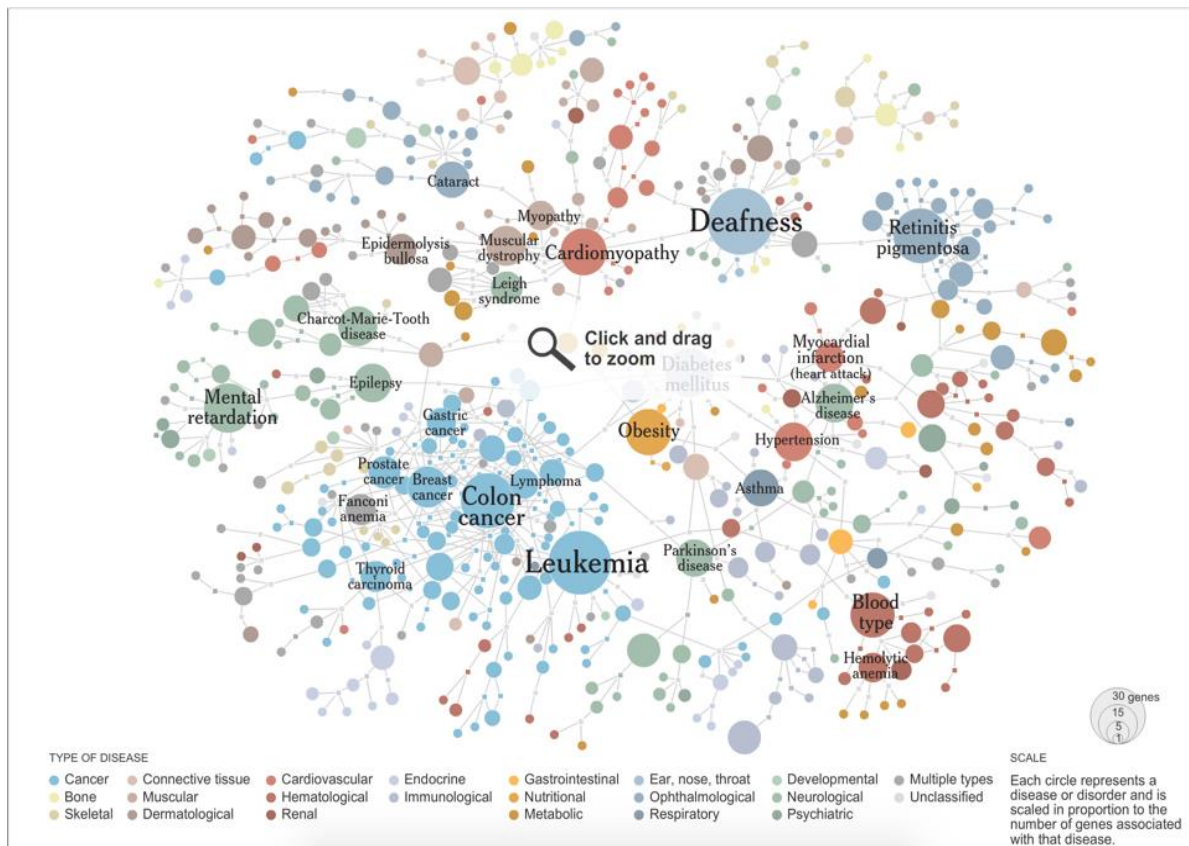
Ans:
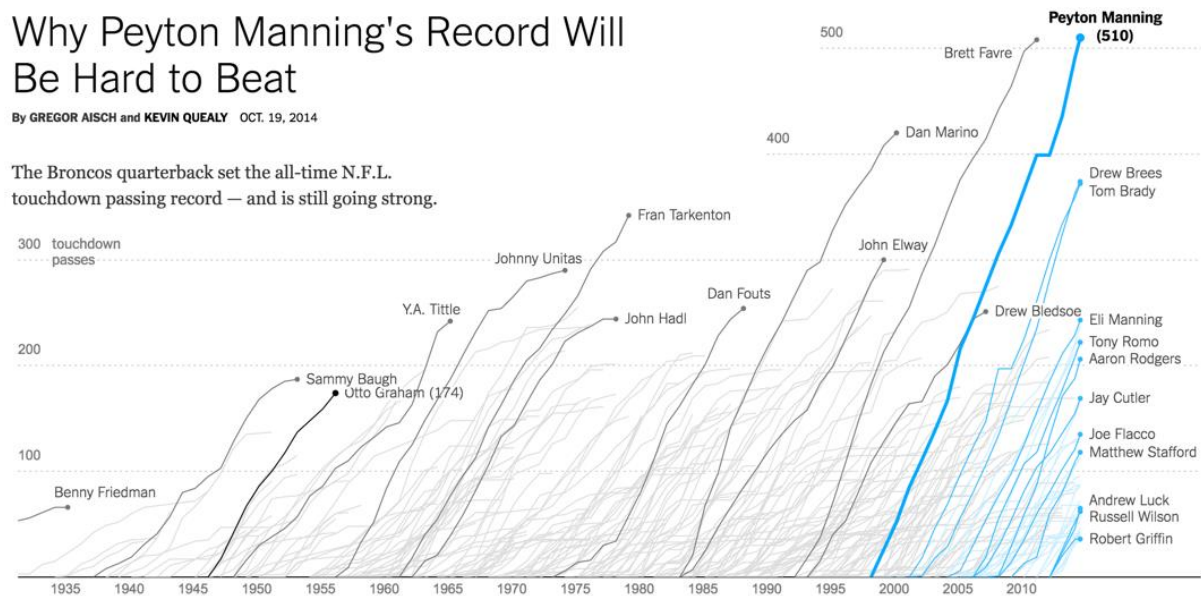
- Data items represent: **Quarterback**
- Mark used for data items are: **Line**
- Data attributes are: **year**, **touchdown pass**
- Visual channels are: **x-position**, **y-position**
- For each attribute:
    - **year** is encoded with **x-position**
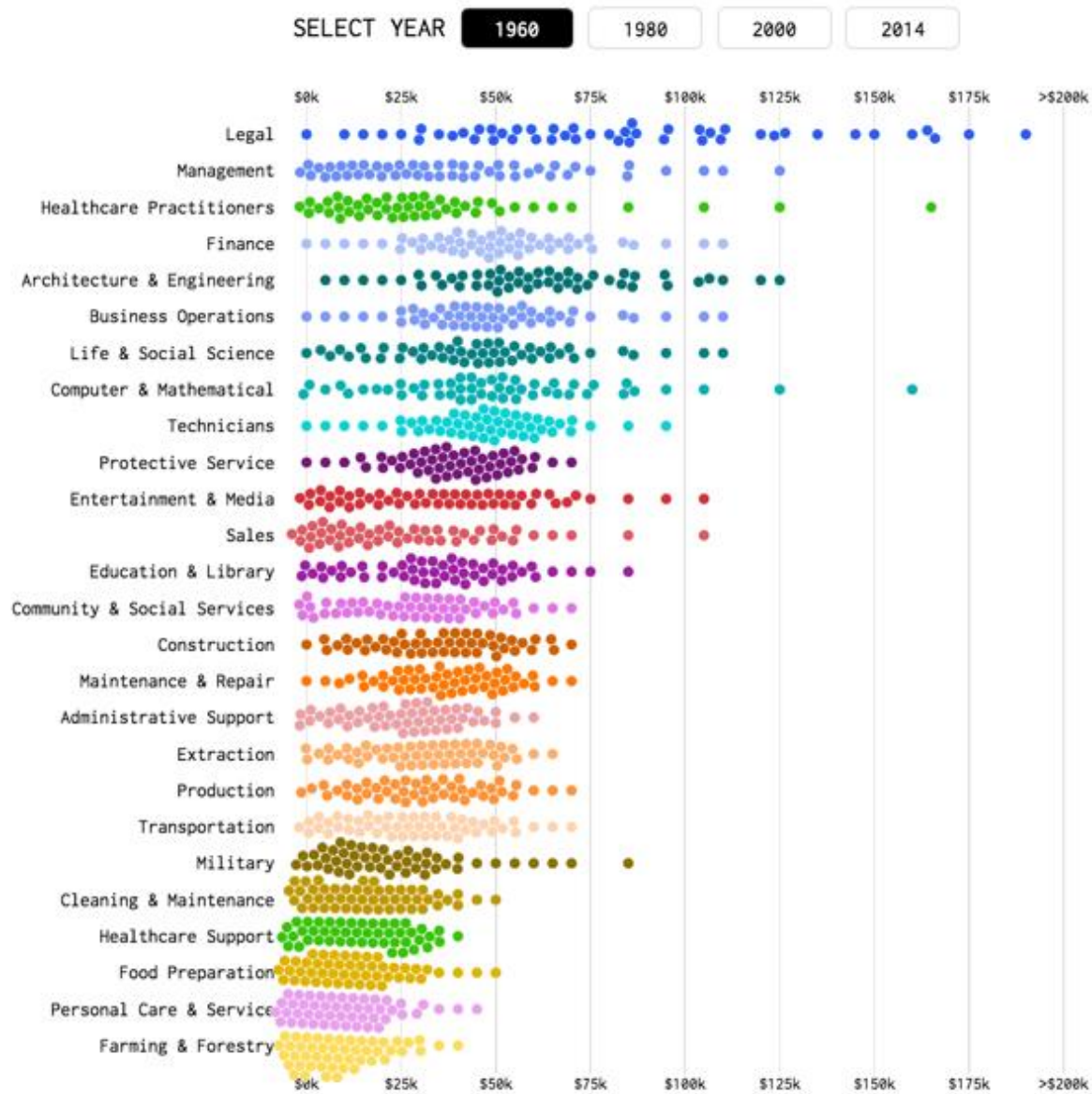   - **touchdown pass** is encoded with **y-position**

Chart 4

Ans:

Node:
- Data items represent: **Disease**
- Mark used for data items are: **Area**
- Data attributes are: **Number of Associated genes, Type of Disease**
- Visual channels are: **Size, Color Hue**
- For each attribute:
    - **Number of Associated genes** is encoded with **Size**
    - **Type of Disease** is encoded with **Color Hue**

Link:

- Data items represent: **Relationship between disease based on common genes**
- Mark used: **Line**

Chart 5

SELECT YEAR | 1960 | 1980 | 2000 | 2014

Legal
Management
Healthcare Practitioners
Finance
Architecture & Engineering
Business Operations
Life & Social Science
Computer & Mathematical
Technicians
Protective Service
Entertainment & Media
Sales
Education & Library
Community & Social Services
Construction
Maintenance & Repair
Administrative Support
Extraction
Production
Transportation
Military
Cleaning & Maintenance
Healthcare Support
Food Preparation
Personal Care & Service
Farming & Forestry

$0k $25k $50k $75k $100k $125k $150k $175k >$200k

https://flowingdata.com/2016/06/28/distributions-of-annual-income/

Ans:

- Data items represent: **Person**
- Mark used for data items are: **Points**
- Data attributes are: **Occupation Group, Annual Income**
- Visual channels are: **y-position, Color Hue, x-position**
- For each attribute:
    - **Occupation Group** is encoded with **y-position and Color Hue**
   - **Annual Income** is encoded with **x-position**

Chart 6

Ans:

- Data items represent: **Player**
- Mark used for data items are: **Area**
- Data attributes are: **VORP (Value over replacement player), year, pick number**
- Visual channels are: **Color Intensity, x-position, y-position**
- For each attribute:
    - **VORP (Value over replacement player)** is encoded with **Color Intensity**
    - **year** is encoded with **x-position**
    - **pick number** is encoded with **y-position**

Chart 7

Ans:
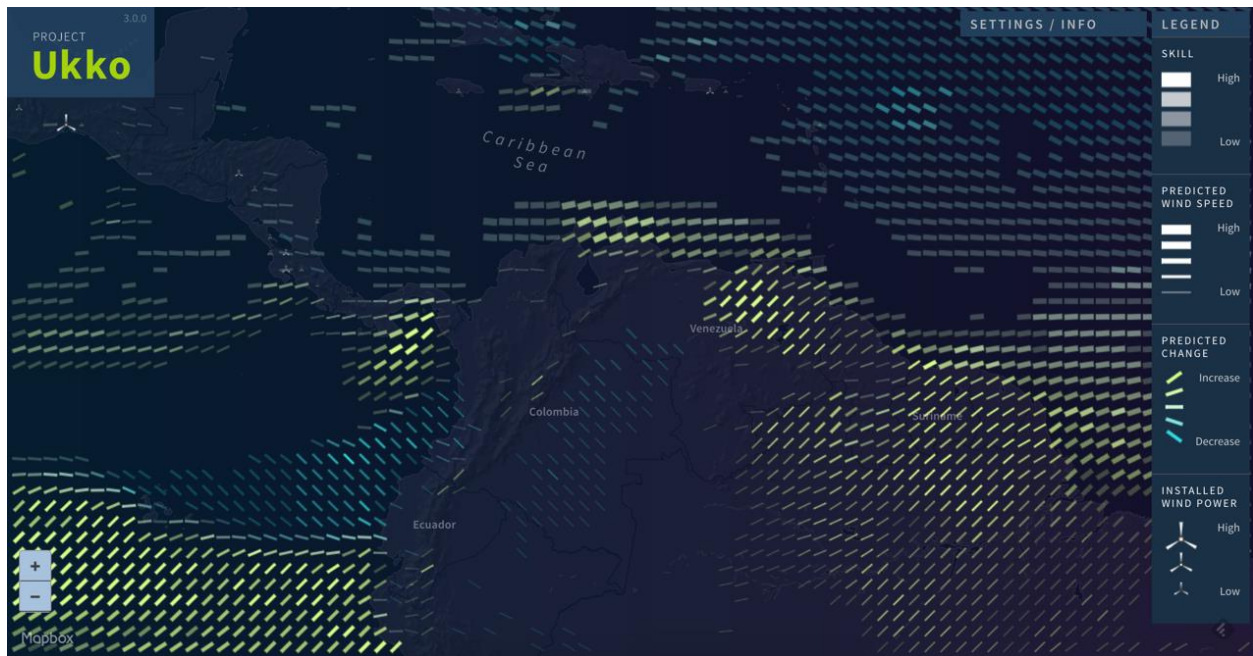
- Data items represent: **Seasonal Wind Prediction**
- Mark used for data items are: **Area**
- Data attributes are: **Prediction Skill, Predicted Wind Speed, Predicted Change (Trend), Wind Power**
- Visual channels are: **Color intensity, Size, Color Hue, Slope**
- For each attribute:
  - **Prediction Skill** is encoded with **Color intensity**
  - **Predicted Wind Speed** is encoded with **Size**
  - **Predicted Change (Trend)** is encoded with **Color Hue, Color intensity, Slope**
  - **Wind Power** is encoded with **Size**