

HOMEWORK 4: HENRY GOLDKUBE

1. a. THE MOST INTERESTING LESSON FROM TUTTE FOR ME WAS THE EVOLUTION OF HOW WE GOT TO MODERN DAY GRAPHICS. WE STARTED OFF W/ STRICTLY GEOGRAPHICAL MAPS WHICH EVOLVED TO PLOTTING DATA ON MAPS WHICH LED TO TIME SERISED GRAPHICS AND FINALLY RELATIONAL GRAPHICS THAT DON'T HAVE TO DO W/ SPACE OR TIME. THIS FINAL CATEGORY TUTTE EMPHASISED TO BE THE MOST IMPORTANT.

b. PLOT I CHOSE WAS PLAYFAIR'S THREE PARALLEL TIME SERIED CHART. CHOSE THIS B/C IT CONVEYED A LOT OF INFORMATION IN A SMALL SPACE AND ALSO FOUND IT AMAZING THAT IT WAS HAND DRAWN, REAL ARTISTRY.

- ENCODING: $x \rightarrow$ TIME, $y \rightarrow$ AMOUNT OF SCHEDULES (WAGES AND WHEAT),
LABELS \rightarrow MONARCH NAME, DIFFERENT Glyphs TO REPRESENT THE DIFFERENT DATASETS.

- LAYERING OF GRAPHS ON EACH OTHER, HALF CIRCLES ON TOP TO SHOW CONTOURS, SHOW FADING OF BAR CHART WHEN OVERLAPPED W/ LINE/AREA CHART.

- SHOWS THE POWER OF TELLING A STORY AND GIVING A POINT ACROSS W/ DATA, AS WELL AS SHOWING HOW MUCH INFORMATION CAN BE EXPRESSED POWERFULLY IN A SMALL AMOUNT OF SPACE.

2. TWO LESSONS LEARNED, MAKE SURE YOU THINK OF OTHERS NOT JUST YOURSELF WHEN MAKING GRAPHICS JUST B/C YOU UNDERSTAND IT, DOESN'T MEAN OTHERS WILL TO, NEED TO PUT YOURSELF IN SOMEONE WHO ISN'T IMMERSSED IN DATA. ALSO IMPORTANT TO HAVE CONSEQUENT AND NON-OBJECTIVE GRAPHICS.

3. 1. FIRST THE DUAL Y-AXIS MAKES IT HARD TO READ DATA LOTS OF SCANNING BACK AND FORTH, BAR CHARTS AND LINE COMBINING TO READ. DUALITY W/ OBTAIN LABELS AND Y-AXES.

2. CONCAT SO TWO DIFFERENT GRAPHS, CHANGE COMPLETION RATE TO LINE CHART AS WELL, GET RID OF THE REPETITIVE LABELING.

a. GRAPHIC MAKES USE OF BOTH LAYERS AND CONCAT.

b. GRAPHIC INFLUENCED BY THE RESPONSE RATE NOT NEEDING TO BE O BASED B/C MEASURING DIFFERENT OVER YEARS AND NO LONGER BAR CHART SO NO LONGER MISLEADING, ALSO THE IMPORTANCE OF NOT USING DUAL Y-AXES,