Project proposal

Domain: food waste

Dataset: https://www.fao.org/platform-food-loss-waste/flw-data/en/

Design ideas:

1. Compare the proportion of food waste by countries

* Chart used: donut chart

1. Compare food waste by gdp

* X-axis: gdp
* Y-axis: food waste
* Chart used: bubble plot
* Mark used: point (country)
* Channel used: color hue (continent), size (population)

1. Compare global food waste by year

* X-axis: year
* Y-axis: global food waste
* Chart used: stacked area chart
* Channel used: color hue (major commodity)

1. Compare food waste along the food supply stage for different commodities

* X-axis: major commodity
* Y-axis: food waste
* Chart used: stacked bar chart
* Channel used: color hue (food supply stage)

1. Compare the flow from continent to different commodities

* Chart used: sankey diagram

1. Compare food waste of each commodity by their major type

* Chart used: treemap

1. Compare the proportion for cause of loss

* Chart used: radial bar chart/funnel chart/waffle chart/clustered force layout/packed circle chart

Why:

1. To identify which country produces the largest amount of food waste
2. To identify whether gdp of countries might affect the amount of food waste produced
3. To identify the trend whether the amount of food waste produced globally increases along the year
4. To identify which food supply stage is the most significant in generating the food waste for each commodity
5. To identify which commodity is the major food waste being produced in each continent
6. To identify which commodity under each major type is account for the food waste issue
7. To identify which causes is the most significant for the food waste issue