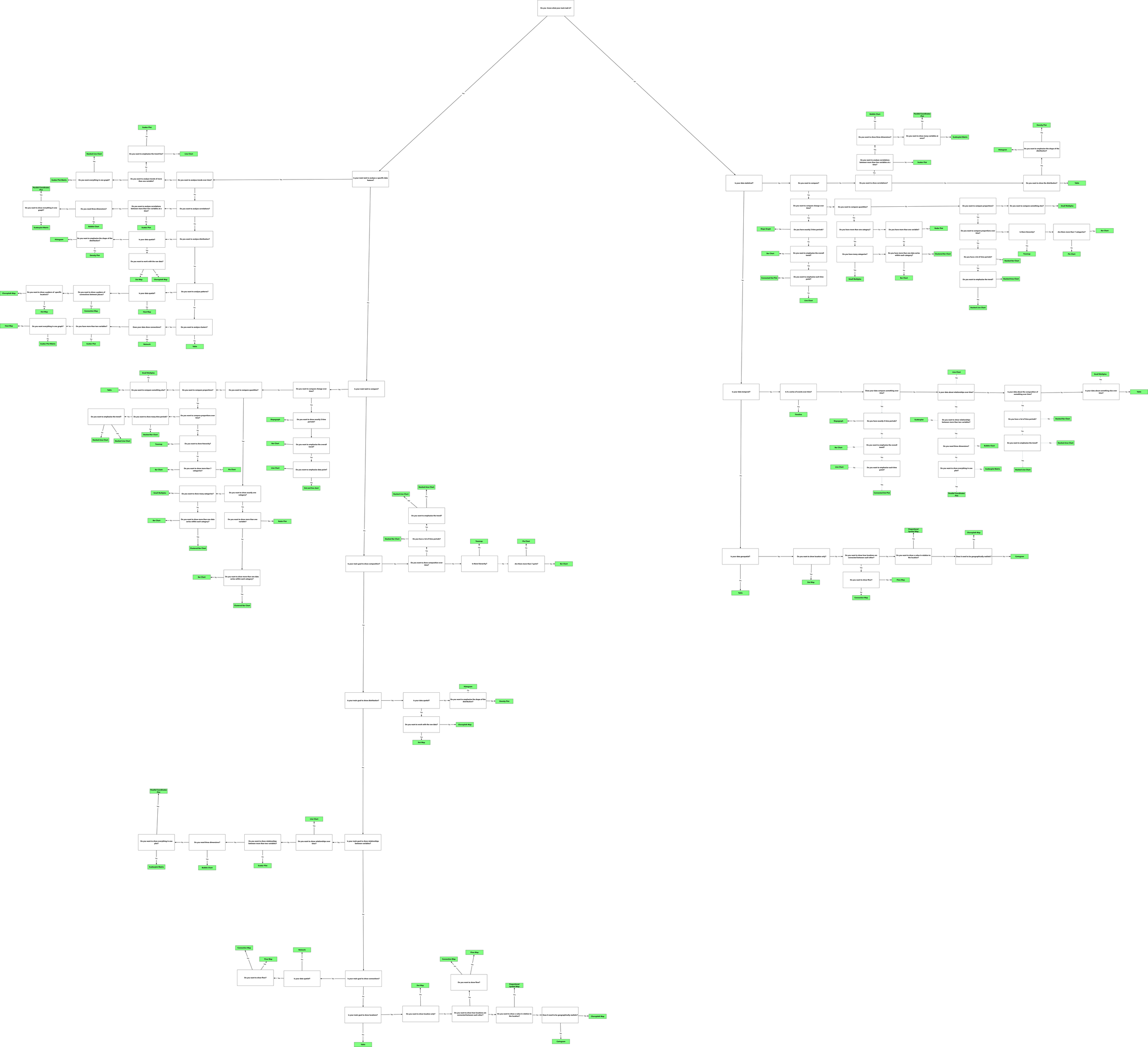
Do you know what your main task is?
Yes
No
Is your main task to analyze a specific data feature?
Yes
Do you want to analyse trends over time?
Yes
Do you want to emphasize the trend line?
Yes
Scatter Plot
No
Line Chart
No
Do you want to analyse trends of more than one variable?
Yes
Do you want everything in one graph?
Yes
Stacked Line Chart
No
Scatter Plot Matrix
No
Do you want to analyse correlation?
Yes
Do you want to analyse correlations between more than two variables at a time?
Yes
Do you need three dimensions?
Yes
Bubble Chart
No
Do you want to show everything in one graph?
Yes
Parallel Coordinates Plot
No
Scatterplot Matrix
No
Do you want to analyse distribution?
Yes
Is your data spatial?
Yes
Do you want to work with the raw data?
Yes
Dot Map
No
Choropleth Map
No
Do you want to emphasize the shape of the distribution?
Yes
Density Plot
No
Histogram
No
Do you want to analyse patterns?
Yes
Is your data spatial?
Yes
Do you want to show a pattern of connections between places?
Yes
Connection Map
No
Do you want to show a pattern of specific locations?
Yes
Dot Map
No
Choropleth Map
No
Heat Map
No
Does your data show connections?
Yes
Network
No
Do you have more than two variables?
Yes
Scatter Plot
No
Do you want everything in one graph?
Yes
Scatter Plot Matrix
No
Heat Map
No
Do you want to analyse clusters?
Yes
Table
No
Is your main task to compare?
Yes
Do you want to compare change over time?
Yes
Do you want to show exactly 2 time periods?
Yes
Do you want to emphasize the overall trend?
Yes
Do you want to emphasize each time point?
Yes
Dot and line chart
No
Line Chart
No
Do you want to emphasize the overall trend?
Yes
Stacked Line Chart
No
Stacked Area Chart
No
Do you want to emphasize the trend?
Yes
Do you have a lot of time periods?
Yes
Stacked Bar Chart
No
Do you want to show composition over time?
Yes
Is there hierarchy?
Yes
Treemap
No
Are there more than 7 parts?
Yes
Pie Chart
No
Bar Chart
No
Do you want to compare quantities?
Yes
Do you want to compare proportions over time?
Yes
Do you want to show hierarchy?
Yes
Do you want to show more than 7 categories?
Yes
Do you want to show many categories?
Yes
Do you want to show more than one data series within each category?
Yes
Cluttered Bar Chart
No
Bar Chart
No
No
Do you want to show exactly one category?
Yes
Do you want to show more than one variable?
Yes
Radar Plot
No
Do you want to show more than one data series within each category?
Yes
Cluttered Bar Chart
No
Bar Chart
No
No
Do you want to compare proportions?
Yes
Do you want to show many time periods?
Yes
Stacked Bar Chart
No
Do you want to emphasize the trend?
Yes
Stacked Area Chart
No
Stacked Line Chart
No
No
Do you want to compare something else?
Yes
Small Multiples
No
Table
No
Is your main goal to show composition?
Yes
Is your main goal to show distribution?
Yes
Is your data spatial?
Yes
Do you want to work with the raw data?
Yes
Dot Map
No
Choropleth Map
No
No
Do you want to emphasize the shape of the distribution?
Yes
Density Plot
No
Histogram
No
Is your main goal to show relationships between variables?
Yes
Do you want to show relationships over time?
Yes
Line Chart
No
Do you want to show relationships between more than two variables?
Yes
Scatter Plot
No
Do you need three dimensions?
Yes
Bubble Chart
No
Do you want to show everything in one plot?
Yes
Scatterplot Matrix
No
Parallel Coordinates Plot
No
Is your main goal to show connections?
Yes
Is your data spatial?
Yes
Network
No
Do you want to show flow?
Yes
Flow Map
No
Connection Map
No
Is your main goal to show locations?
Yes
Table
No
Do you want to show location only?
Yes
Dot Map
No
Do you want to show how locations are connected between each other?
Yes
Do you want to show flow?
Yes
Flow Map
No
Connection Map
No
Do you want to show a value in relation to the location?
Yes
Proportional Symbol Map
No
Does it need to be geographically realistic?
Yes
Cartogram
No
Choropleth Map
No
No
Is your data statistical?
Yes
Do you want to compare?
Yes
Do you want to compare change over time?
Yes
Do you have exactly 2 time periods?
Yes
Do you want to emphasize the overall trend?
Yes
Do you want to emphasize each time point?
Yes
Line Chart
No
Connected Dot Plot
No
Bar Chart
No
Slope Graph
No
No
Do you want to compare quantities?
Yes
Do you have more than one category?
Yes
Do you have many categories?
Yes
Small Multiples
No
No
Do you have more than one variable?
Yes
Do you have more than one data series within each category?
Yes
Clustered Bar Chart
No
Bar Chart
No
Radar Plot
No
No
Do you want to compare proportions?
Yes
Do you want to compare proportions over time?
Yes
Do you have a lot of time periods?
Yes
Do you want to emphasize the trend?
Yes
Stacked Area Chart
No
Stacked Line Chart
No
Stacked Bar Chart
No
No
Is there hierarchy?
Yes
Treemap
No
Are there more than 7 categories?
Yes
Pie Chart
No
Bar Chart
No
Do you want to compare something else?
Yes
Small Multiples
No
No
Do you want to show correlations?
Yes
Do you want to analyse correlations between more than two variables at a time?
Yes
Do you want to show three dimensions?
Yes
Bubble Chart
No
Do you want to show many variables at once?
Yes
Parallel Coordinates Plot
No
Scatterplot Matrix
No
No
Scatter Plot
No
Do you want to show the distribution?
Yes
Do you want to emphasize the shape of the distribution?
Yes
Density Plot
No
Histogram
No
No
Table
No
Is your data temporal?
Yes
Is it a series of events over time?
Yes
Timeline
No
No
Does your data compare something over time?
Yes
Do you have exactly 2 time periods?
Yes
Do you want to emphasize the overall trend?
Yes
Do you want to emphasize each time point?
Yes
Connected Dot Plot
No
Bar Chart
No
Line Chart
No
No
Is your data about relationships over time?
Yes
Do you want to show relationships between more than two variables?
Yes
Do you need three dimensions?
Yes
Do you want to show everything in one plot?
Yes
Parallel Coordinates Plot
No
Scatterplot Matrix
No
Bubble Chart
No
Scatterplot
No
Line Chart
No
No
Is your data about the composition of something over time?
Yes
Do you have a lot of time periods?
Yes
Do you want to emphasize the trend?
Yes
Stacked Area Chart
No
Stacked Line Chart
No
Stacked Bar Chart
No
No
Is your data about something else over time?
Yes
Small Multiples
No
Table
No
No
Is your data geospatial?
Yes
Do you want to show location only?
Yes
Dot Map
No
Do you want to show how locations are connected between each other?
Yes
Do you want to show flow?
Yes
Connection Map
No
Flow Map
No
Do you want to show a value in relation to the location?
Yes
Proportional Symbol Map
No
Does it need to be geographically realistic?
Yes
Cartogram
No
Choropleth Map
No
No
Table
No