

How much of what is at the MET?

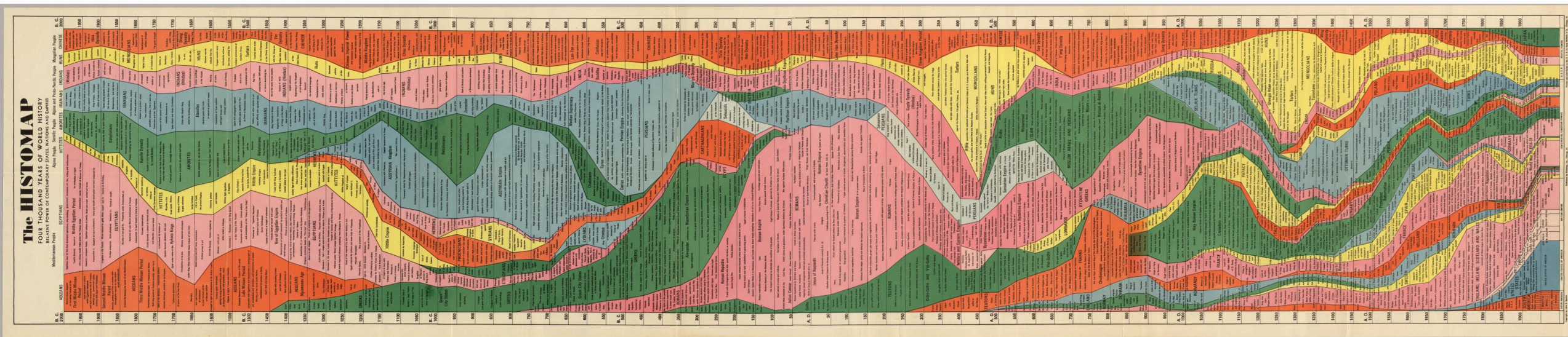
Major Studio 1: Quantitative Visualization

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How much of what is at the MET?

- The world history (timeline from the David Rumsey Map collection):



Ref: <https://www.davidrumsey.com/luna/servlet/detail/RUMSEY~8~1~200375~3001080:The-Histomap--Four-Thousand-Years-O>

Process

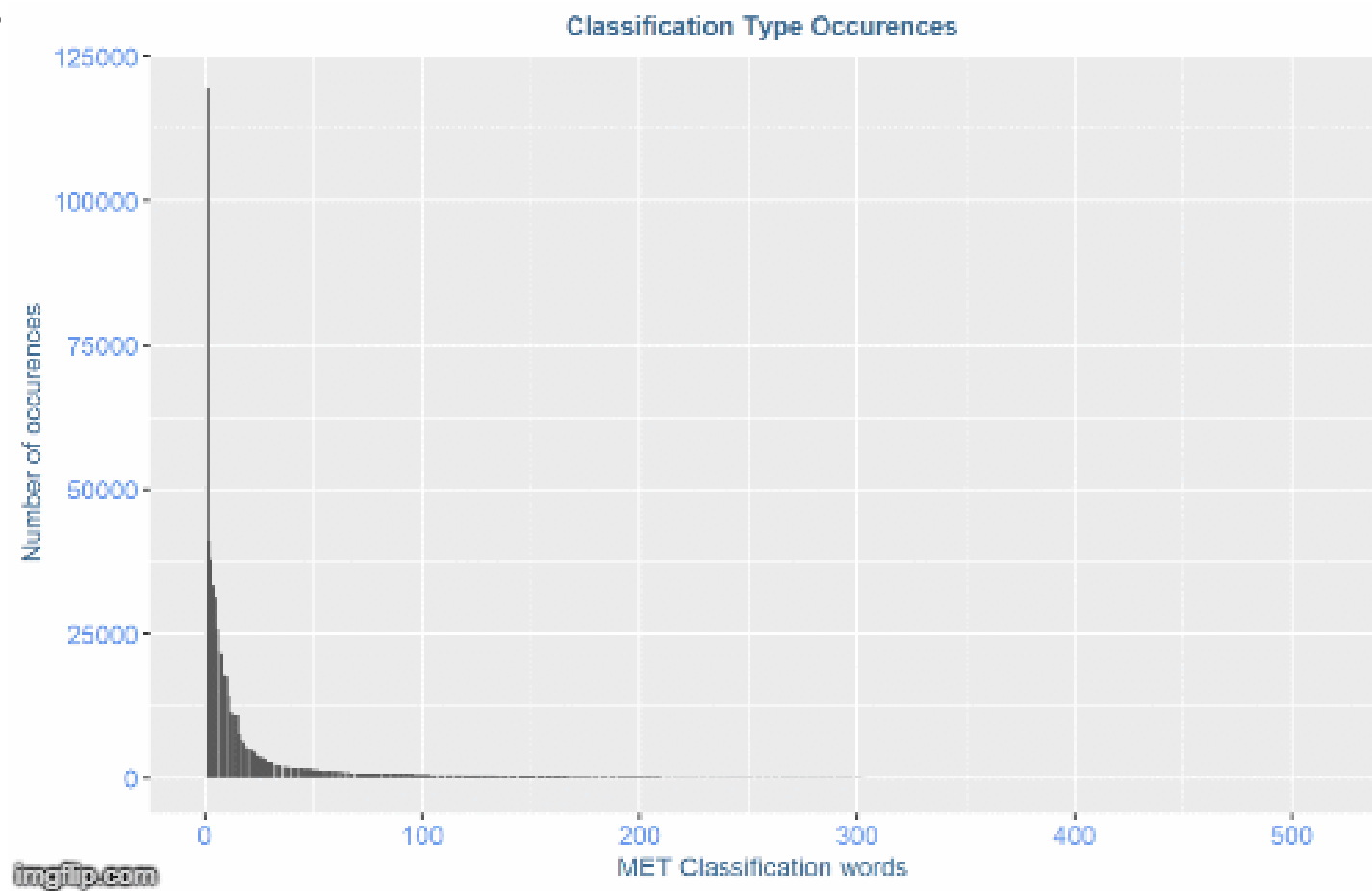
- Narrowing down the research question:
 - Decision to **describe** more than to infer.
- Narrowing down the search fields:
 - Departments
 - Object Name
 - Medium
 - Classification

R Text mining & word count:

- Data Wrangling with R:
 - Using the MET Open Access .CSV
 - Create subsets: `subset(df, Department == "Asian Art")`
 - Create initial plots: `ggplot(...)`
 - Used text mining library: `library("tm")`
 - Remove punctuation: `gsub("[[:punct:]]", "", text)`
 - Remove stop words: `stopwords=c("of", "for", "in", "etc."...`
 - Count words: `termFreq(classifRawText, ctrl)`
- Comments
 - Doing language processing is difficult without a corpus of (specialized)

Context

- Initial results:

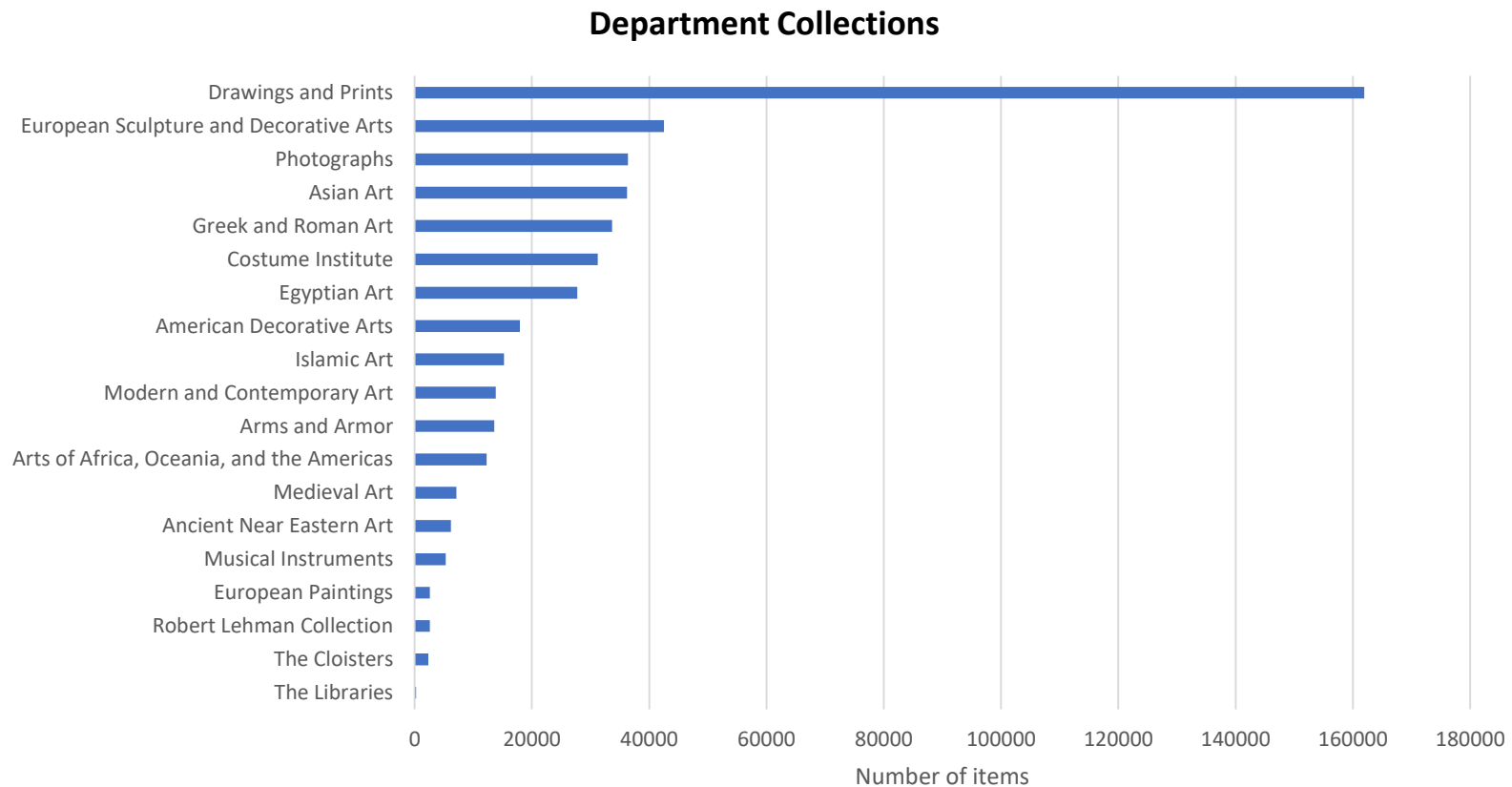


Progress

- The new (unofficial) research questions:
- How do I make bar chart look good?
- Showing labels in a static image: How do I convey the picture without using a thousand words?

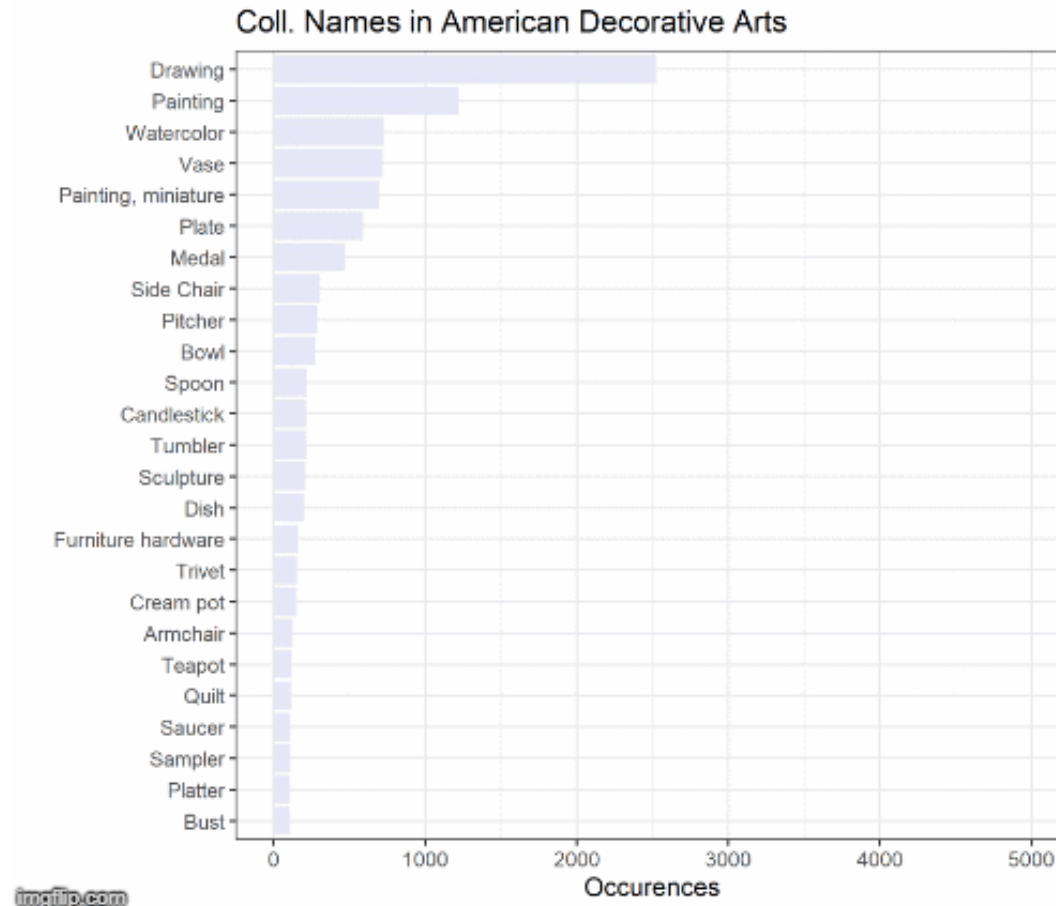
Quantities across departments

- Turn the chart horizontally:



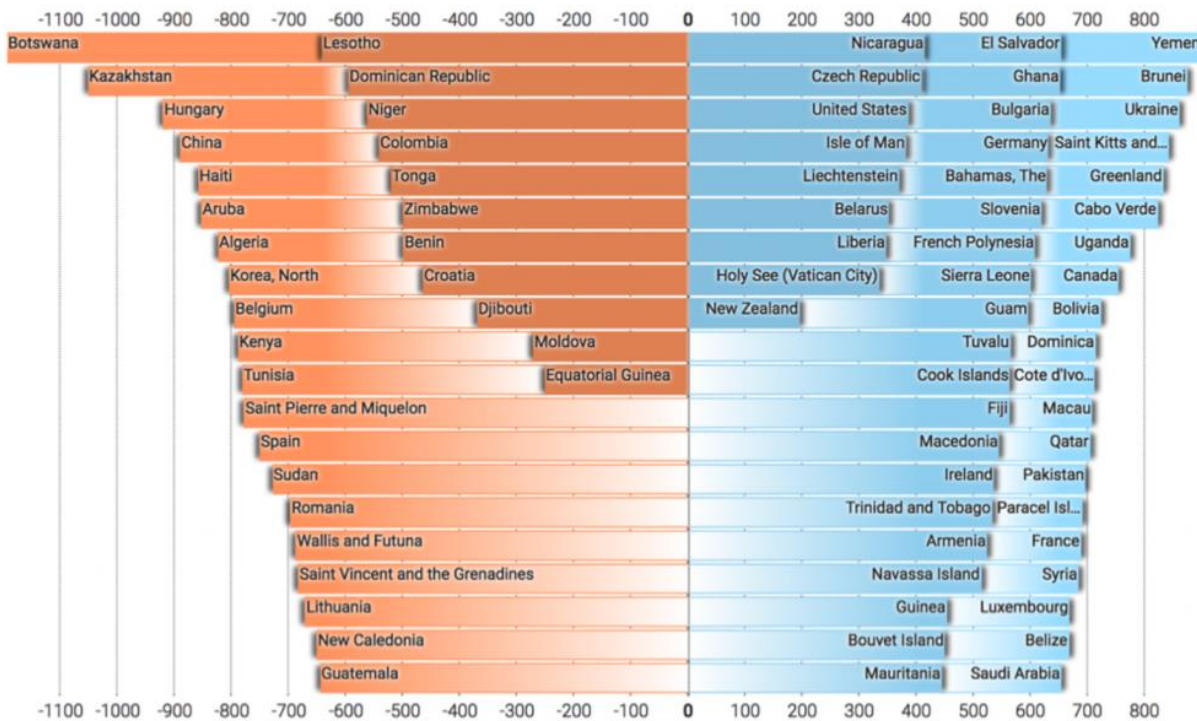
Object name distributions?

- Object Names vs. dept.:

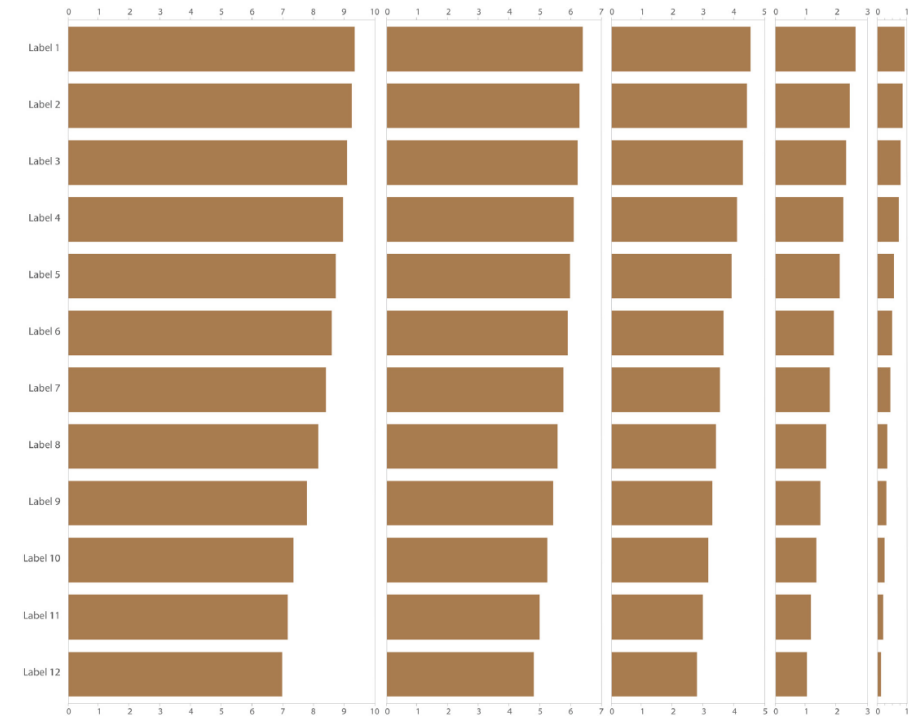


Piled, wrapped, stacked, packed

- Piled or wrapped



(Piled Bars: Dense Visualization of Numeric Data. M. Adil Yalcin, Niklas Elmqvist, Benjamin B. Bederson. Poster presented at Graphics Interface

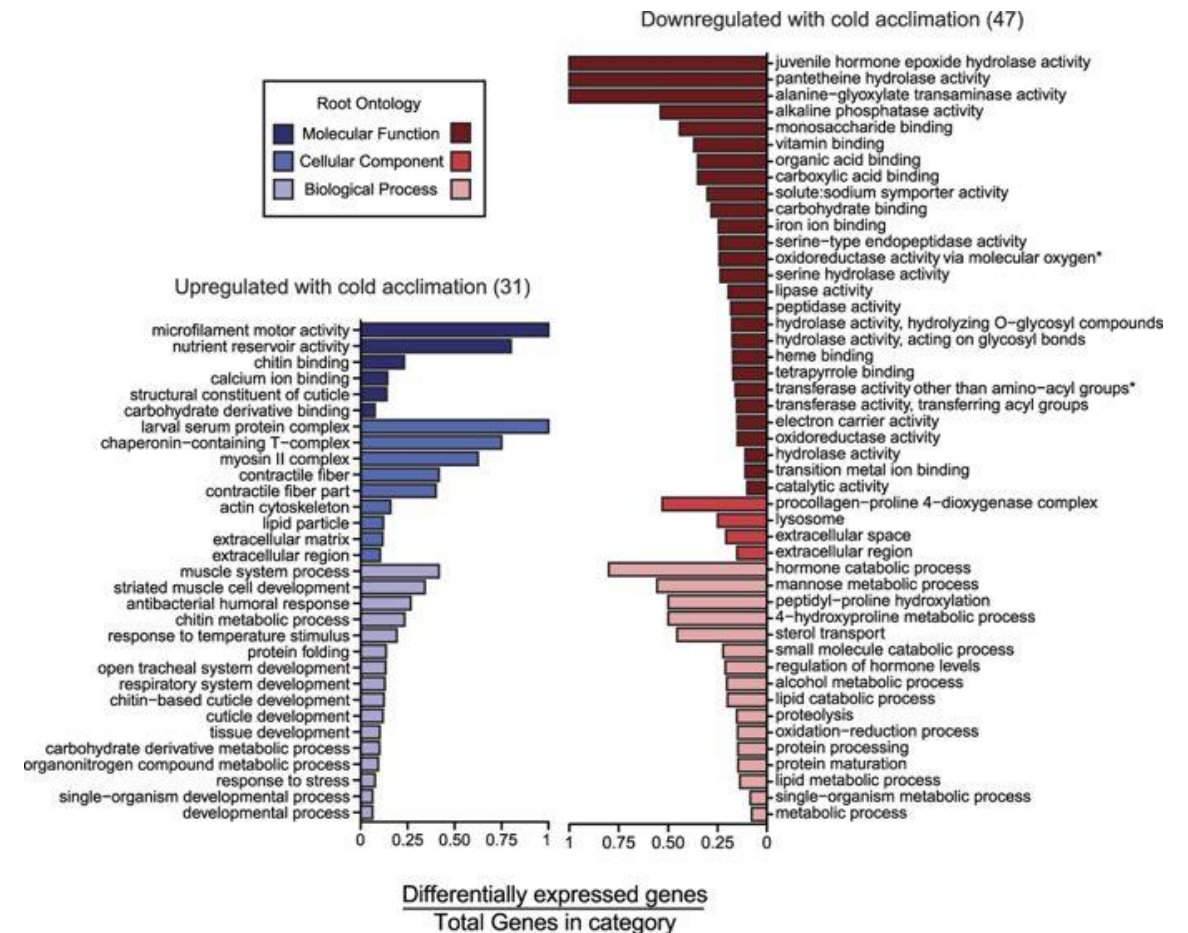
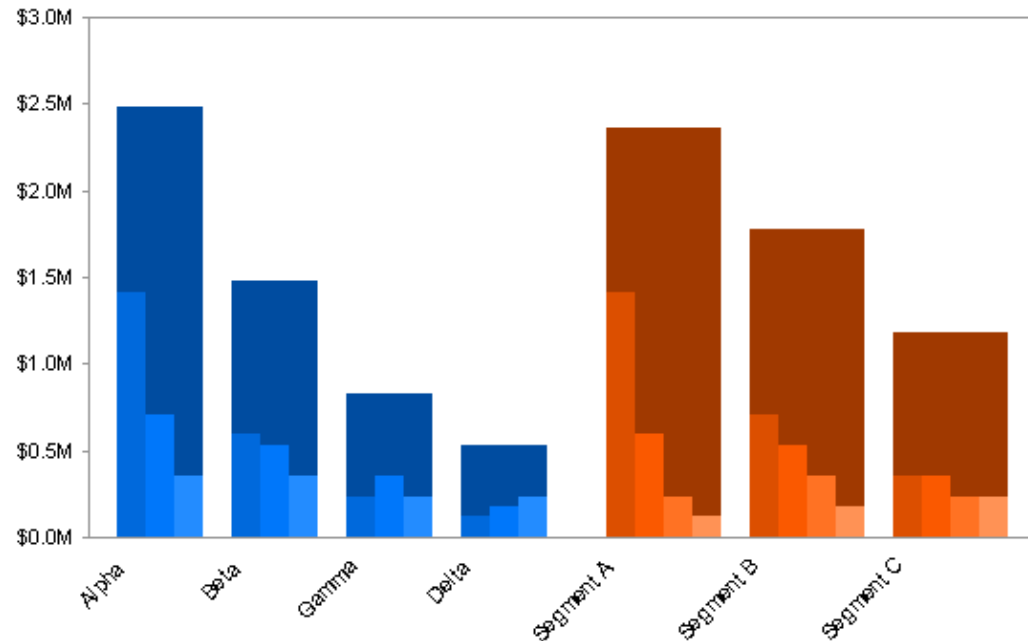


Wrapping Graphs to Extend Their Limits

Stephen Few, Perceptual Edge Visual Business Intelligence Newsletter

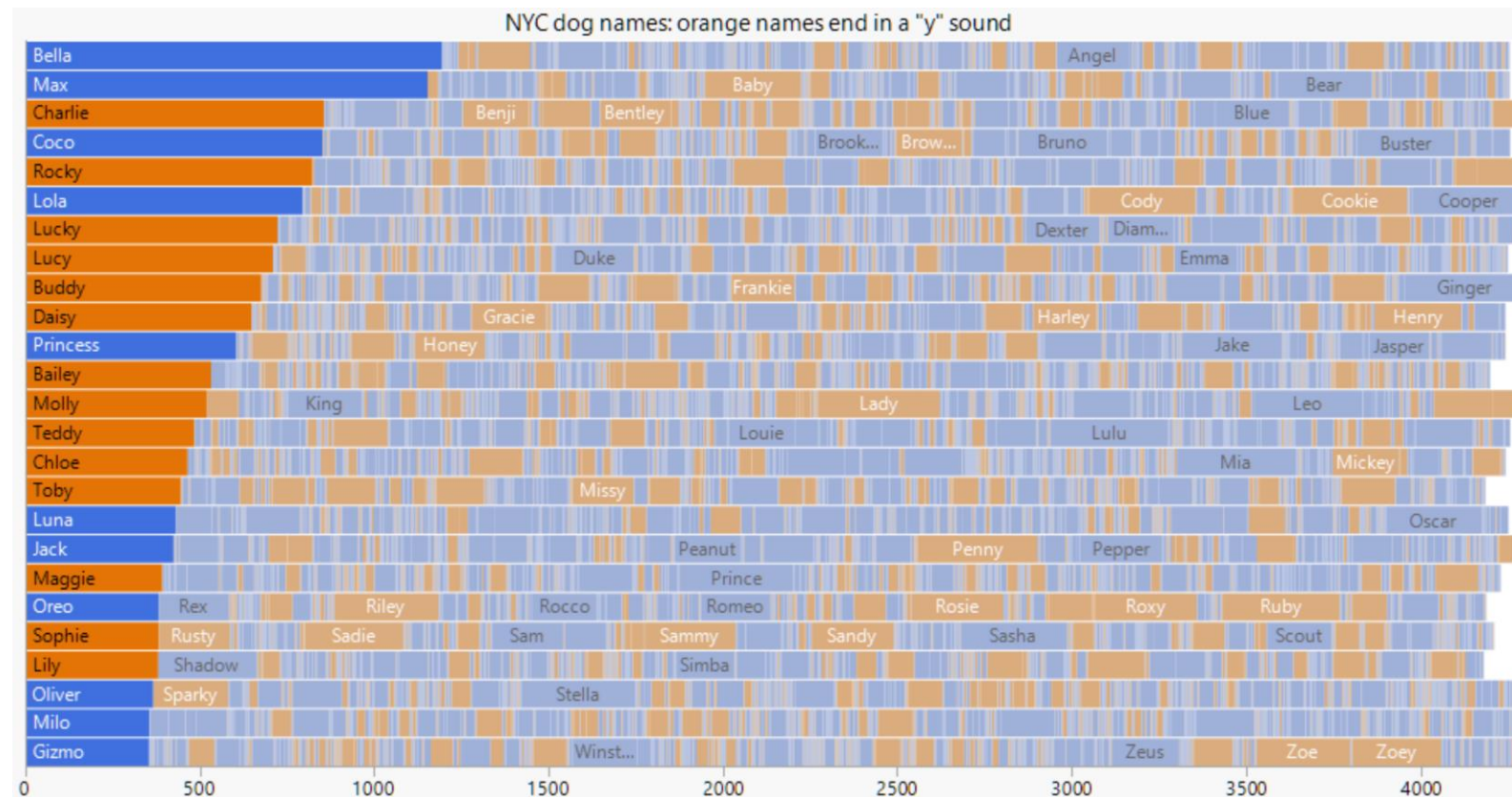
Piled, wrapped, stacked, packed

- Nested or grouped bars:



Piled, wrapped, stacked, packed

- Packed Bars (JMP, Excel, R and D3.js):

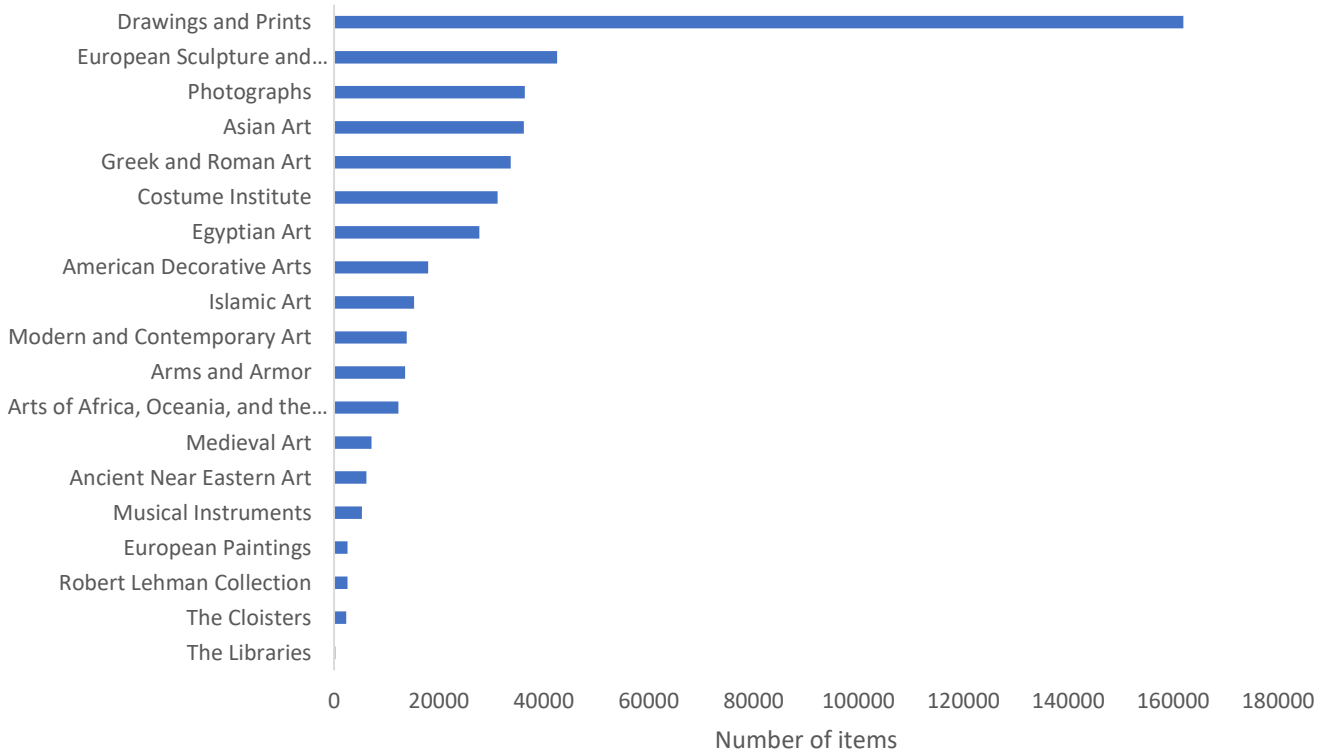


ref. [<https://community.jmp.com/t5/JMP-Blog/Introducing-packed-bars-a-new-chart-form/ba-p/39972>]

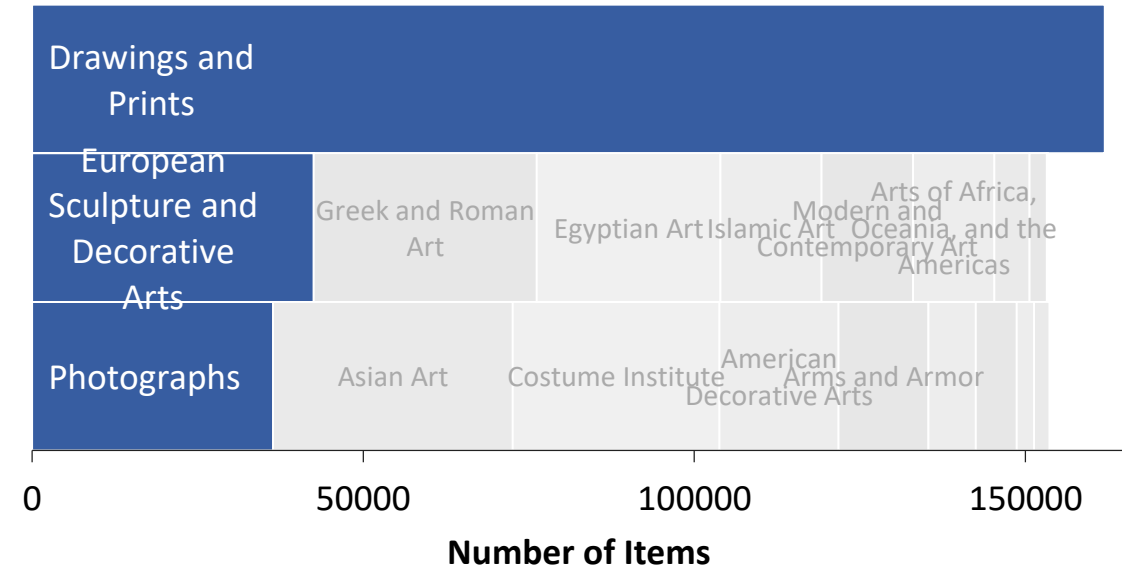
Piled, wrapped, stacked, packed

- Packing it:

Department Collections



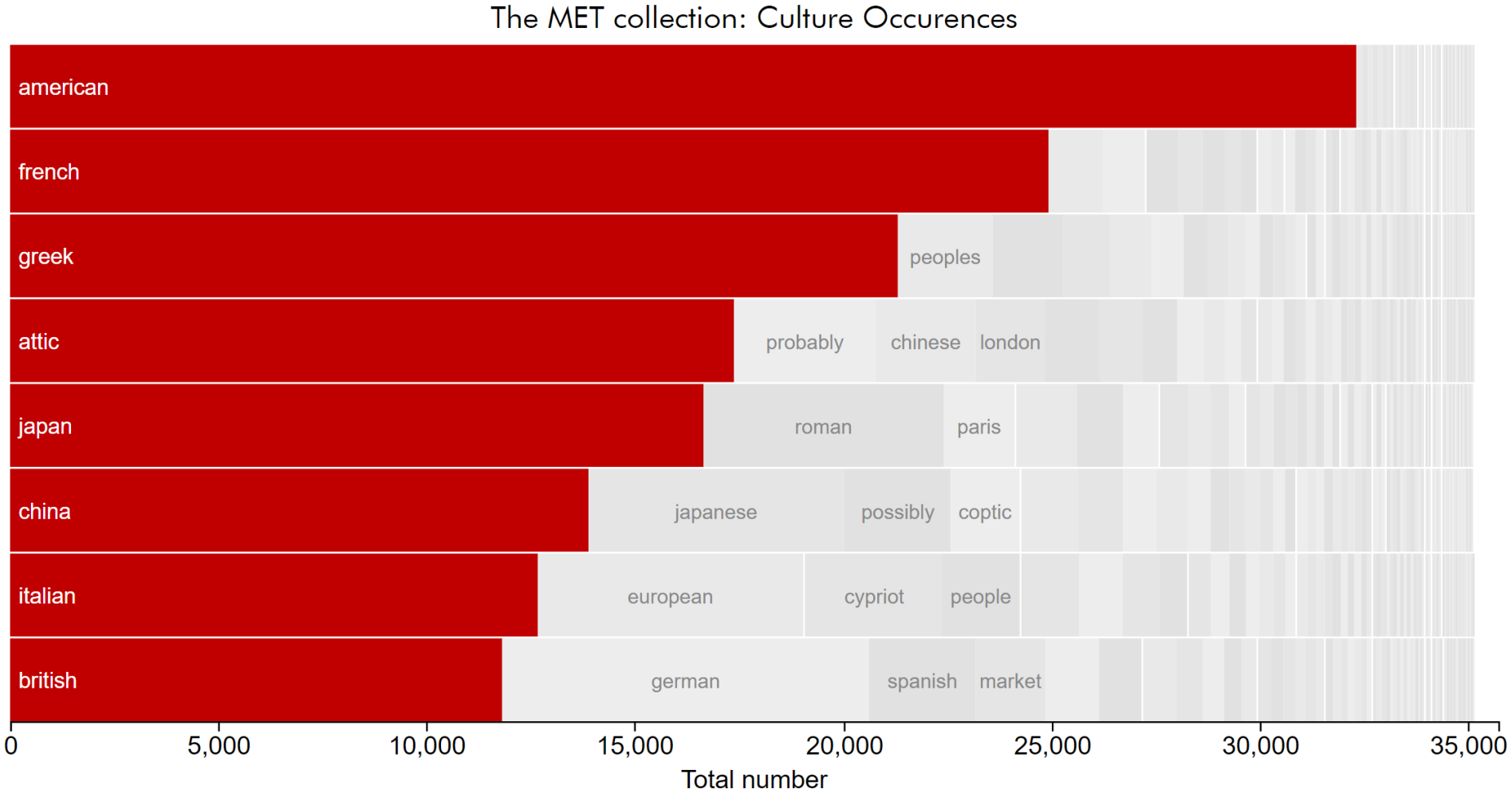
Department Collections



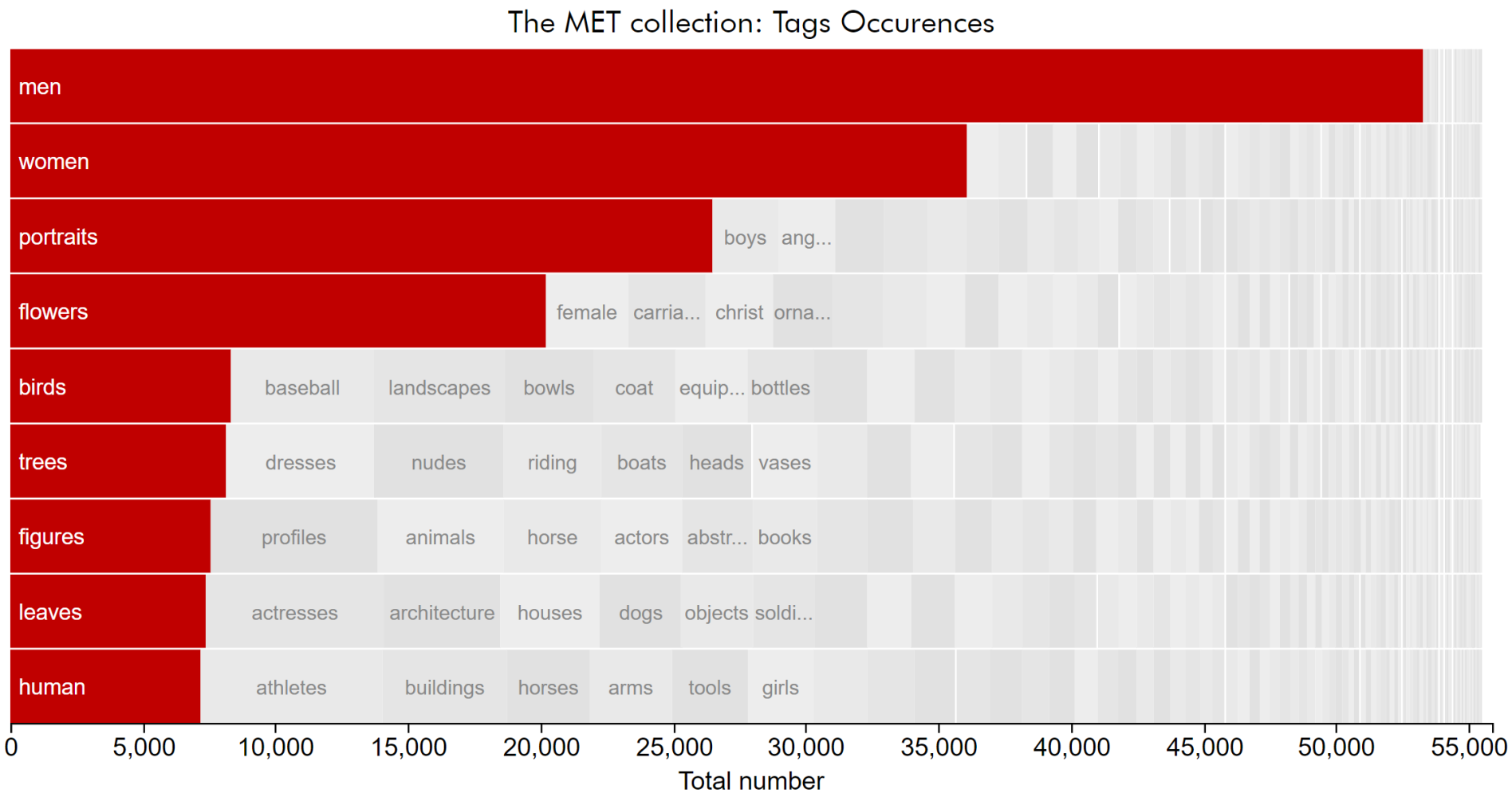
What is at the MET?

- Packed Bars d3.js
 - Import processed data (word count) from new .CSV (generated in R)
 - Wrap in an HTML wrapper
 - Changed styling
 - Made plot
 - From github repo: <https://github.com/xangregg/packedbars>

MSDV Quantitative Visualization

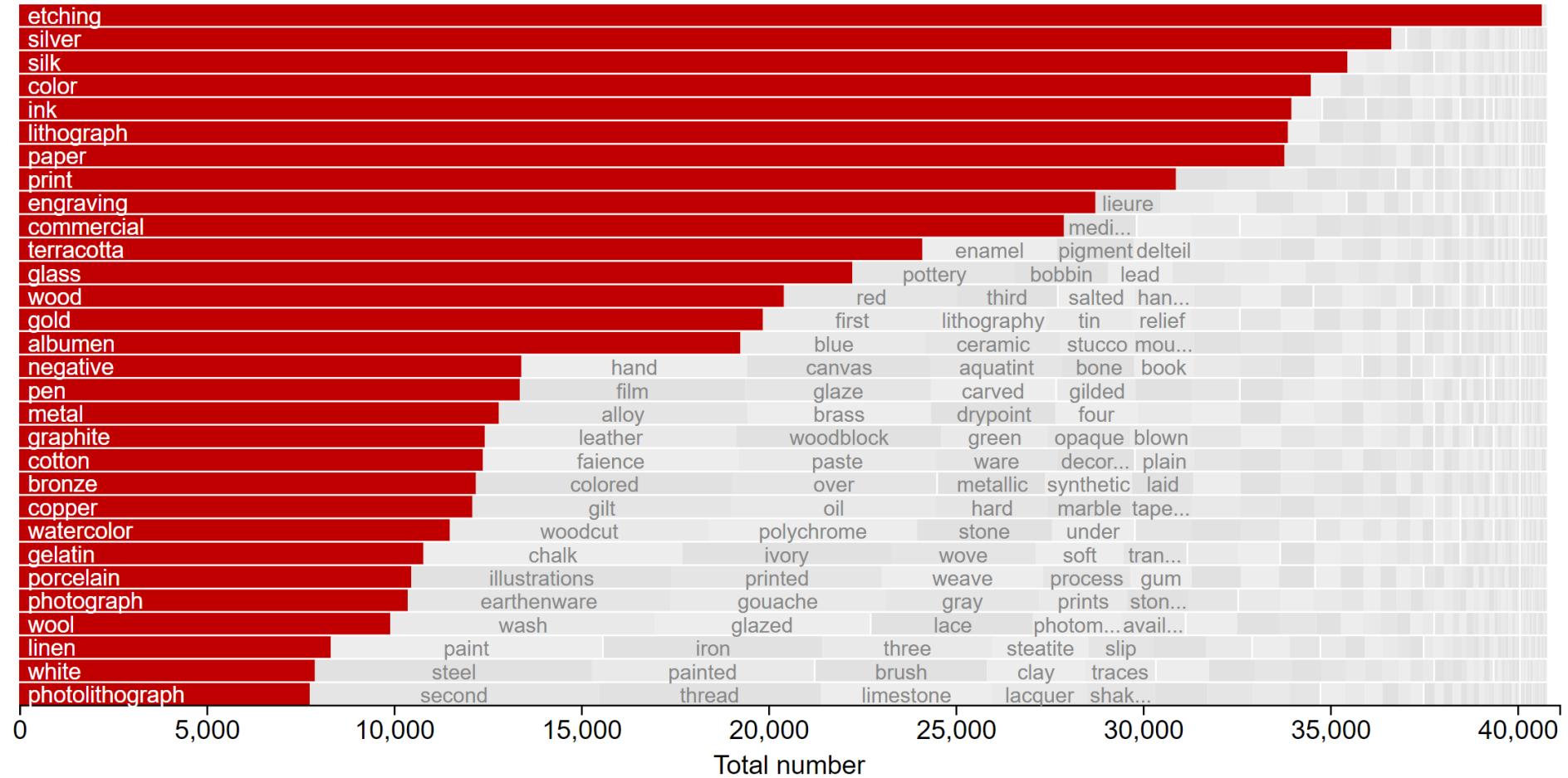


MSDV Quantitative Visualization



MSDV Quantitative Visualization

The MET collection: Medium Occurences





Questions

Github:

http://htmlpreview.github.io/?https://github.com/acdreier/PGDV5200_MajorStudio1/blob/master/Project_Quantitative/index.html