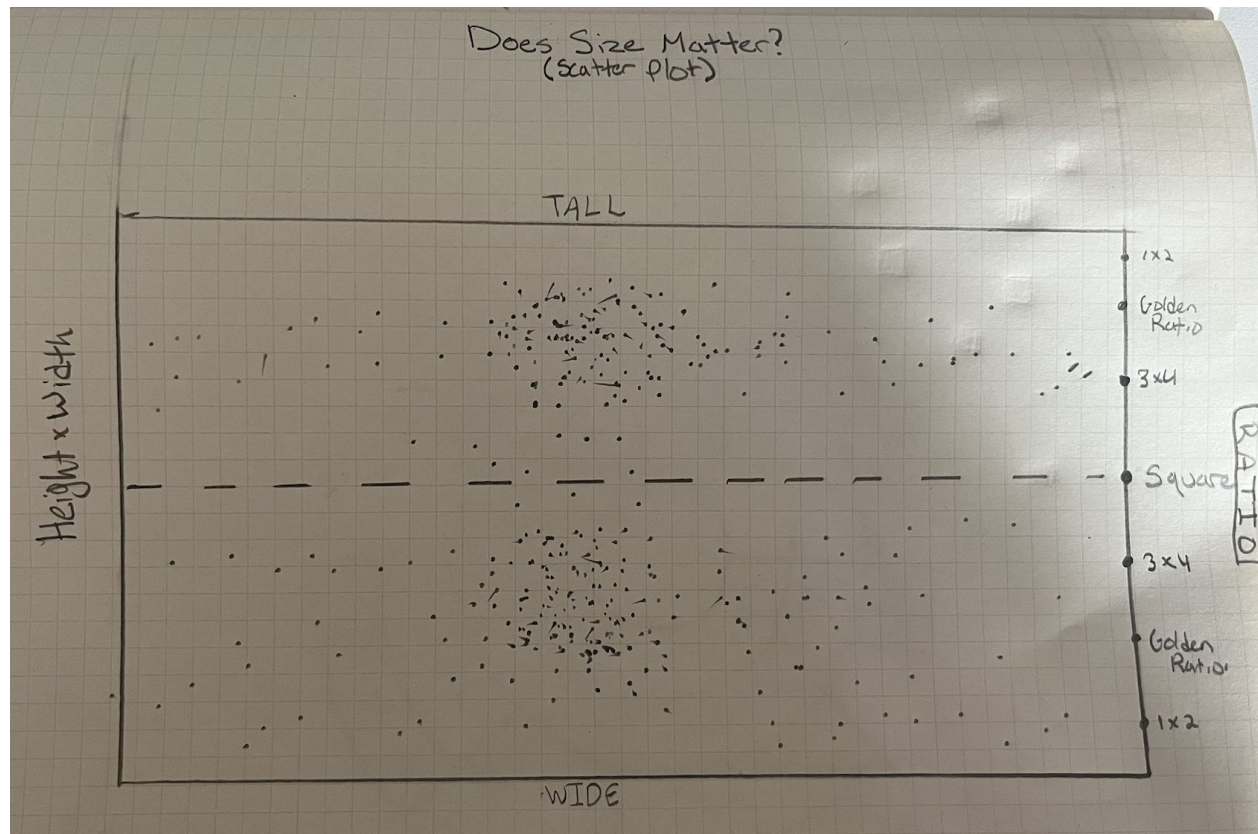

Does Size Matter?

Exploring the NGA Archives against the golden ratio

Sarah Bacharach

Major Studio 1 '23

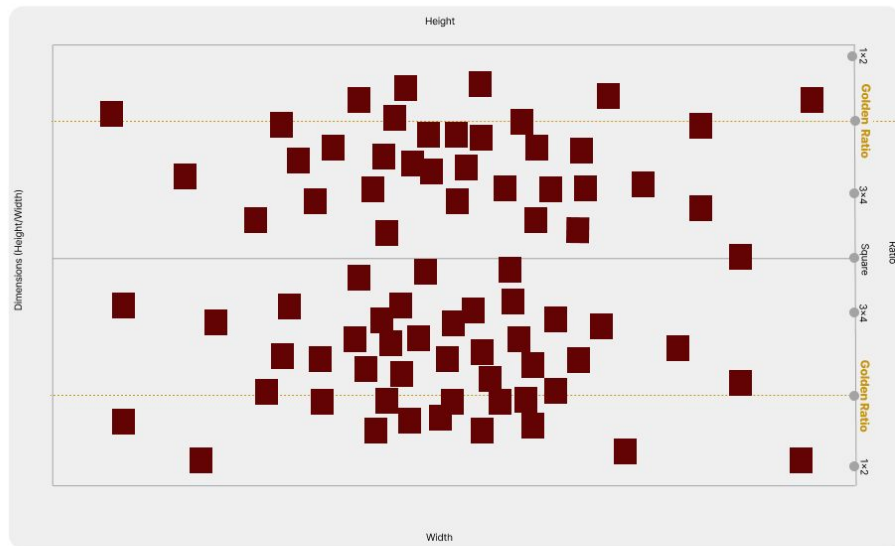
Sketch



Prototype

Does Size Matter?

Exploring the NGA archives and it's relationship with the 'divine proportion'



Golden Ratio
With a proportion equal to $x^2=x+1$, the golden ratio in art creates a balanced relationship that the mind's eye loves. More precisely, it is about obtaining a precise ratio between the different parts of a work, an image, or an object.

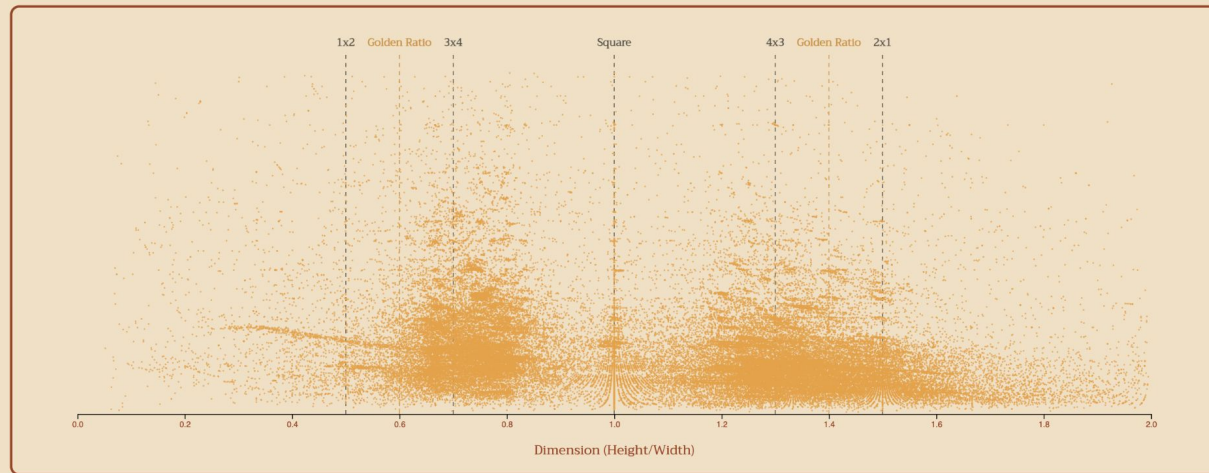
Filter

Cancel

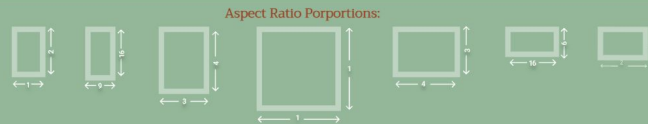
Final

Does Size Matter?

Exploring the NGA archives and its relationship with the golden ratio



The Golden Ratio: art and nature's secret for perfect proportions. Witness how this divine ratio has created captivating visual harmony for centuries.



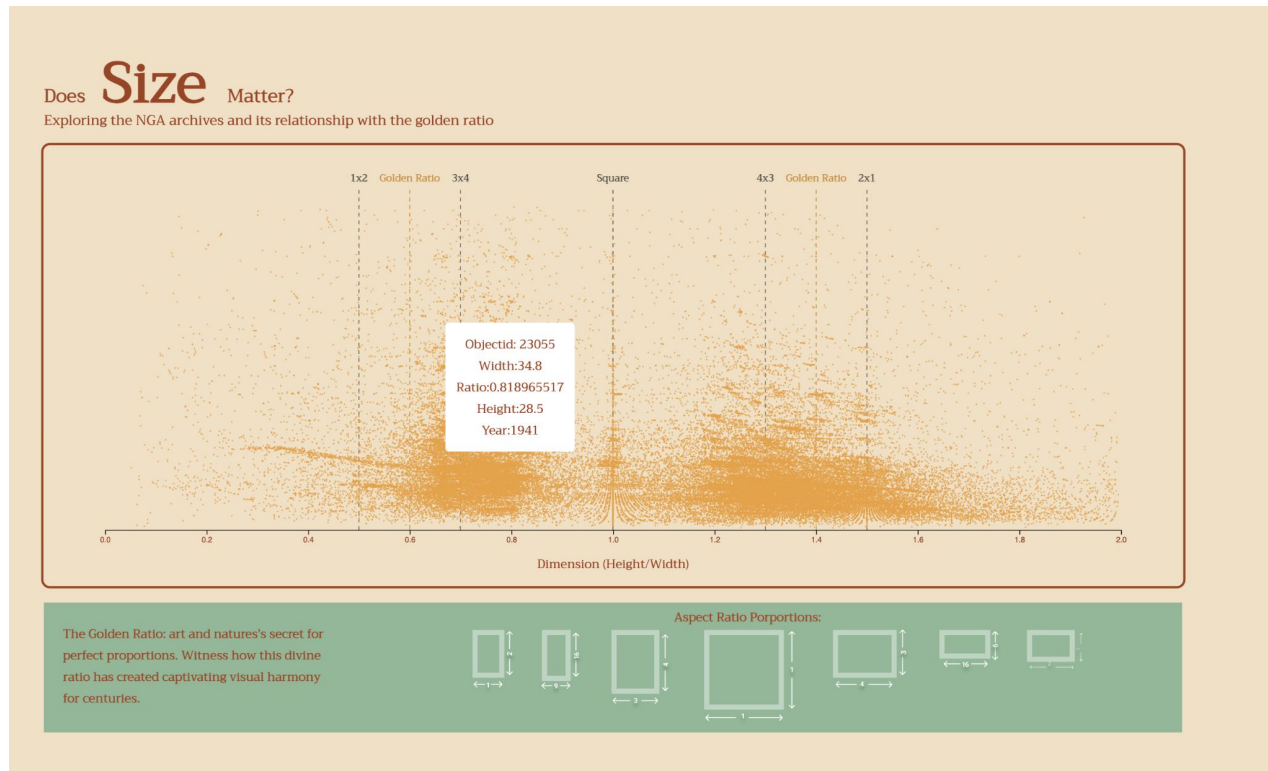
Next Steps:

Proper tooltip function

Improve dot stylization to emphasize golden ratio artwork

Add filter by object type (painting, sculpture, etc)

Improve overall stylization of information in the bottom box



Code Snippet:

One of the biggest challenges for me was figuring out how to put a second Y axis with labels that was dependent on the data but did not interfere with its plots

ChatGPT - Assisted in keeping my code organized, added and edited all of my comments so I could easily locate, fix, and/or refer back to sections.

git link:
<https://github.com/sarahbacharach1/major-studio-1-SB/blob/main/NGA/GoldenRatio.html>

```
212 // Add lines and labels on the y-axis
213 var yLines = [0.5, 0.7, 0.9, 1.0, 1.1, 1.3, 1.5];
214 var yLabels = ["1x2", "Golden Ratio", "3x4", "Square", "4x3", "Golden Ratio", "2x1"];
215
216 for (var i = 0; i < yLines.length; i++) {
217     svg.append("line")
218         .attr("x1", x(0)) // Start the line from the left edge
219         .attr("x2", x(200)) // Extend the line to the right edge
220         .attr("y1", y(yLines[i]))
221         .attr("y2", y(yLines[i]))
222         .attr("stroke", "white")
223         .attr("stroke-dasharray", "4");
224
225     svg.append("text")
226         .attr("x", x(200) + 10) // Position the label to the right of the graph
227         .attr("y", y(yLines[i]))
228         .attr("dy", 4) // Adjust the vertical position
229         .style("font-size", "12px")
230         .style("text-anchor", "start") // Align text to the left
231         .style("font-weight", "bold") // Make the text bold
232         .style("fill", "white")
233         .text(yLabels[i]);
234 }
```