Spatial (Yale) Visualisation

leaflet(data = fave yale)|>

addProviderTiles(providers\$OpenStreetMap)|>

addCircles(weight = 10, opacity = 0.8, color =

 \sim pal(favorite), label = \sim place)|>

addLegend(position = "topright", pal = pal, values =

~favorite, title = "Best Spots at Yale University")|>

addControl("David's Top Spots on Yale

Campus", position = "bottomleft", className = "map-title") |>

<u>addControl(</u>"After a visit to Yale University...", position = "bottomleft", className = "map-caption")



Quad (Simpsons) Visualisation

topepisodes <- simpsons_episodes |>
count(us_viewers_in_millions) |>
filter(us_viewers_in_millions > 10) |>
inner_join(simpsons_episodes, by = "us_viewers_in_millions")

ggplot(topepisodes,aes(x=us_viewers_in_millions, y=imdb_rating, color = original_air_year, shape = title))+

geom_point(size = 3)+

geom_text_repel(aes(label = title), size = 3, max.overlaps = 10) +
scale color gradient(low="purple", high = "navy")+

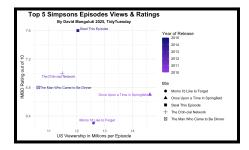
geom smooth()+

theme minimal()+

labs(title = "Top 5 Simpsons Episodes Views & Ratings", subtitle = "By David Manguluti 2025, TidyTuesday", x="US Viewership in Millions per Episode", y="IMBD Rating out of 10", color = "Year of Release")+

theme(plot.title = element_text(face = "bold", size = 16, hjust = 0.5),strip.text = element_text(size = 12, face = "bold"),

plot.subtitle = element_text(face = "bold", size = 10, hjust =



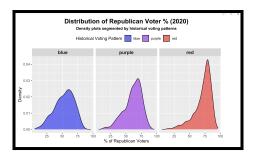
#| fig-alt: "A graph that shows three faceted plot..."

ggplot(elections, aes(x = repub_pct_20, fill = historical)) +
geom_density(alpha = 0.6) +
scale_fill_manual(values = c("blue", "purple", "red")) +
facet_wrap(~ historical)+
theme(legend.position = "top",
 plot.title = element_text(face = "bold", size = 16, hjust =
0.5),strip.text = element_text(size = 12, face = "bold"),
 plot.subtitle = element_text(face = "bold", size = 10,
hjust = 0.5)) +
labs(title = "Distribution of Republican Voter % (2020)",
 subtitle = "Density plots segmented by historical voting
patterns",

x = "% of Republican Voters",

y = "Density",

fill = "Historical Voting Pattern")



Appropriate Visualisations:

Eu	nctions	way to mark locati	ons: addivlarkers()							
To connect points with lines: to connect points with lines add: Polylines(Ing = "longitude, la "hex color")										
		Colors should be in hex format (convert using col2hex() from the gplots package)								
	opacity = transparency (like alpha in ggplot2)									
	weight = thickness of the circles									
	to see all available base maps, type providers in the console. to mark locations with dots add: Circles(weight = A, opacity = B, color = "hex_color")									
•	to change the background map: addProviderTiles("USGS")									
	▶ Opacity: (geom_x(aes(alpha = c))									
	▶ Shape: geom_x(aes(shape = c))									
	Color: geom_x(aes(fill = c))									
	to adjust the width of each graph - geom_x(binwidth = A) to label the axis - labs($x = y = 1$) to change opacity - geom_x (alpha = x) to change opacity - geom_x (alpha = x) to make separate facets of the plots - face_wrap($^{\sim} x$) to add a third variable:									
•										
•										
•										
•										
•	to make a histogram for x - geom_histogram(color = "x")									
•	to make a plot - ggplot(x , aes(x = , y =))									
110	ecessary Add	0110.								

Functions										
	Uni + Quant	Uni + Cat	Bi + Quant	Bi + Cat	Bi + Quant +					
:: Density Plot (geom_density) 💌	0	0	0	0					
Histogram (geom_his)			0	0	0					
Scatter Plots (geom_point)		0		0	0					
Bar Charts (geom_bar)			0		~					
Side-by-Side Violins (geom_violin)	0	0	0	0	~					
Boxplots (geom_box)	2		0	0	✓					
Ridge Plots/ Joy Plots (geom_density	0	0	0	0	0					