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# GEOL 305 - Quantatative Reasoning
# Extra Credit Bar Chart
# Written by Kyle Kasparek

# Enter Data
elements = c("Fe", "O", "Si", "Mg", "S", "Ca", "Al")
weight_percent = c(32.9, 30.7, 15.5, 14.2, 3.8, 1.5, 1.4)

# Create bar plot
barplot(weight_percent, names.arg=elements, ylim=c(0,40), xlab="Element", ylab="Weight
Percent",
        col=c("#FFA500", "#0000FF", "#008400", "#840084", "#FF0000", "#FFFF00", "#00FFFF"),
main="Earth's Most Common Elements", border="black")

text(x=0.7, y=34.5, label="32.9", col="#000000") # Label for Fe value
text(x=1.9, y=32.2, label="30.7", col="#000000") # Label for O value
text(x=3.1, y=17.1, label="15.5", col="#000000") # Label for Si value
text(x=4.3, y=15.7, label="14.2", col="#000000") # Label for Mg value
text(x=5.5, y=5.3, label="3.8", col="#000000") # Label for S value
text(x=6.7, y=3.0, label="1.5", col="#000000") # Label for Ca value
text(x=7.9, y=2.9, label="1.4", col="#000000") # Label for Al value
```