## Base Metal Reserves and Upper Crustal Abundance

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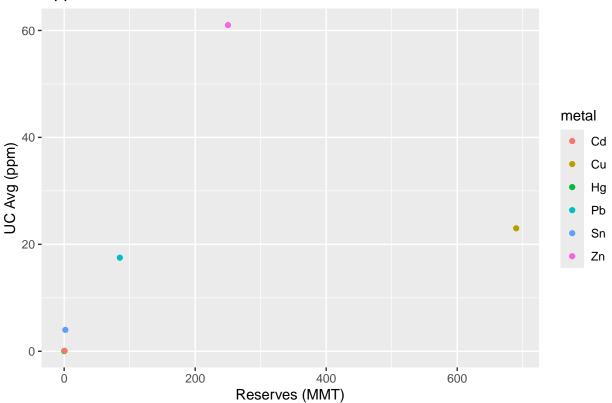
## 2023-09-22

```
library(ggplot2)
```

## Warning: package 'ggplot2' was built under R version 4.3.3

```
metal = c("Cu", "Pb", "Zn", "Sn", "Hg", "Cd")
reserves = c(690, 85, 250, 1.8, 0.093, 0.64)
UCavg = c(23, 17.5, 61, 4, 0.035, 0.0885)
df = data.frame(metal, reserves, UCavg)
ggplot(df, aes(reserves, UCavg, color = metal)) + geom_point() + xlab("Reserves (MMT)") + ylab("UC Avg
```

## Upper Crustal Abundance vs. Base Metal Reserves



Based on the above plot, the base metal that falls off the trend is Cu. This is because the rest of the base metals seem to have a direct relationship between upper crustal abundance and reserves. However, Cu has a relatively low upper crustal abundance but a relatively very high amount of reserves. This differs from the trend of the rest of the base metals.