R4Rchaeologists: Advanced visualisation exercises

Exercise C: tables

Tables are often overlooked as a visualisation – but they are one! Tufte (1983), for example, recommends tables as the most effective way to visualise small datasets, and/or when it is useful to compare exact values. As a rule of thumb, if you find yourself making a bar chart with or worse, a pie chart, consider whether the data would be better presented in a table.

gt provides a ggplot-inspired grammar for tables that makes it possible to make sophisticated and publication-ready tables in R.

Your objectives for this exercise are to:

- 1. Display the RBPottery dataset (from archdata) in a table
- 2. Apply appropriate grouping and formatting
- 3. Add metadata (title, subtitle, caption and footnotes), including highlighting suspicious values (see ?RBPottery)

Data

• archdata::RBPottery

R packages and functions

The following packages will be useful for this exercise:

- gt
- dplyr

Remember that you can open the documentation for any function with <code>?function_name()</code>. Google is also your friend – most packages have websites or GitHub repositories with extended documentation. There are also many tutorials and StackOverflow questions about common problems in R.

Hints

- Like ggplot, gt works best with 'tidy' data. You will need to do some tidying of the RBPottery dataset first
- Look at the documentation for the RBPottery dataset first, to understand what it is and where it comes from.