````
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title: "Diamond Sizes"
author: "Coles Mercier via Prof. Anna Lissitz"
date: "Sunday, January 22, 2023"
output:
  html_document:
    df_print: paged
  word_document: default
  pdf_document: default
---

```{r, echo = FALSE}
#Note, Each gray box below is a code chunk. You need to insert a code chunk and put your R code in it. By setting echo = FALSE. this comment and any code will not show in my output document. If it were TRUE, the comment and code would appear.
```

```{r setup, include = FALSE}
#The include = FALSE function hides both the code and output in my output document

#You need to install these packages first to be able to use the functions within them. You can install them from the Tools tab or write a new code chunk:
install.packages("package_name").
library(ggplot2)
library(dplyr)
```

```{r, include = FALSE}
#this next line is creating a subset called 'small' of the diamonds data
small <- diamonds %>%
  filter(carat <= 2)
```

```{r, echo = FALSE}
#This next chunk is inline code. Inline code puts the text with the output of the function in my document.
```

We have data about `r nrow(diamonds)` diamonds. Only `r nrow(diamonds) - nrow(small)` are larger than 2 carats. The distribution of the remainder is shown below:

```{r, echo = FALSE}
#This next code chunk will make a plot in our output doc
```

```{r, echo = FALSE}
small %>%
  ggplot(aes(carat)) +
  geom_freqpoly(binwidth = 0.01)
```

```{r, echo = FALSE}
#Once all of my code has been written, I click on the Knit button in the tool bar above to produce my document.
```
````