Simple Random Sampling: Takeaways 🖻

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Syntax

SIMPLE RANDOM SAMPLING

• Simple random sampling of a vector, sample size 10:

```
sample_10 <- sample(x, size = 10)</pre>
```

• Simple random sampling of a vector, sample size 500:

```
sample_500 <- sample(x, size = 500)</pre>
```

REPRODUCIBLE RANDOM SAMPLES

• Make the generation of random numbers reproducible:

```
set.seed(1)
sample_10 <- sample(x, size = 10)
set.seed(n)
sample_10 <- sample(x, size = 10)</pre>
```

USING FUNCTIONALS TO PERFORM SIMPLE RANDOM SAMPLING

• Replicate numerous random samples in a reproducible way:

Concepts

• The set of *all* individuals relevant to a particular statistical question is called a **population**. A smaller group selected from a population is called a **sample**. When we select a smaller group from a population, we do **sampling**.

- A **parameter** is a metric specific to a population, and a **statistic** is a metric specific to a sample. The difference between a statistic and its corresponding parameter is called **sampling error**. If the sampling error is low, then the sample is **representative**.
- **Simple random sampling** is the process of generating random numbers and using them to select a few sample units from the population.

Resources

- The Wikipedia entry on sampling.
- The Wikipedia entry on samples.
- The Wikipedia entry on populations.



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