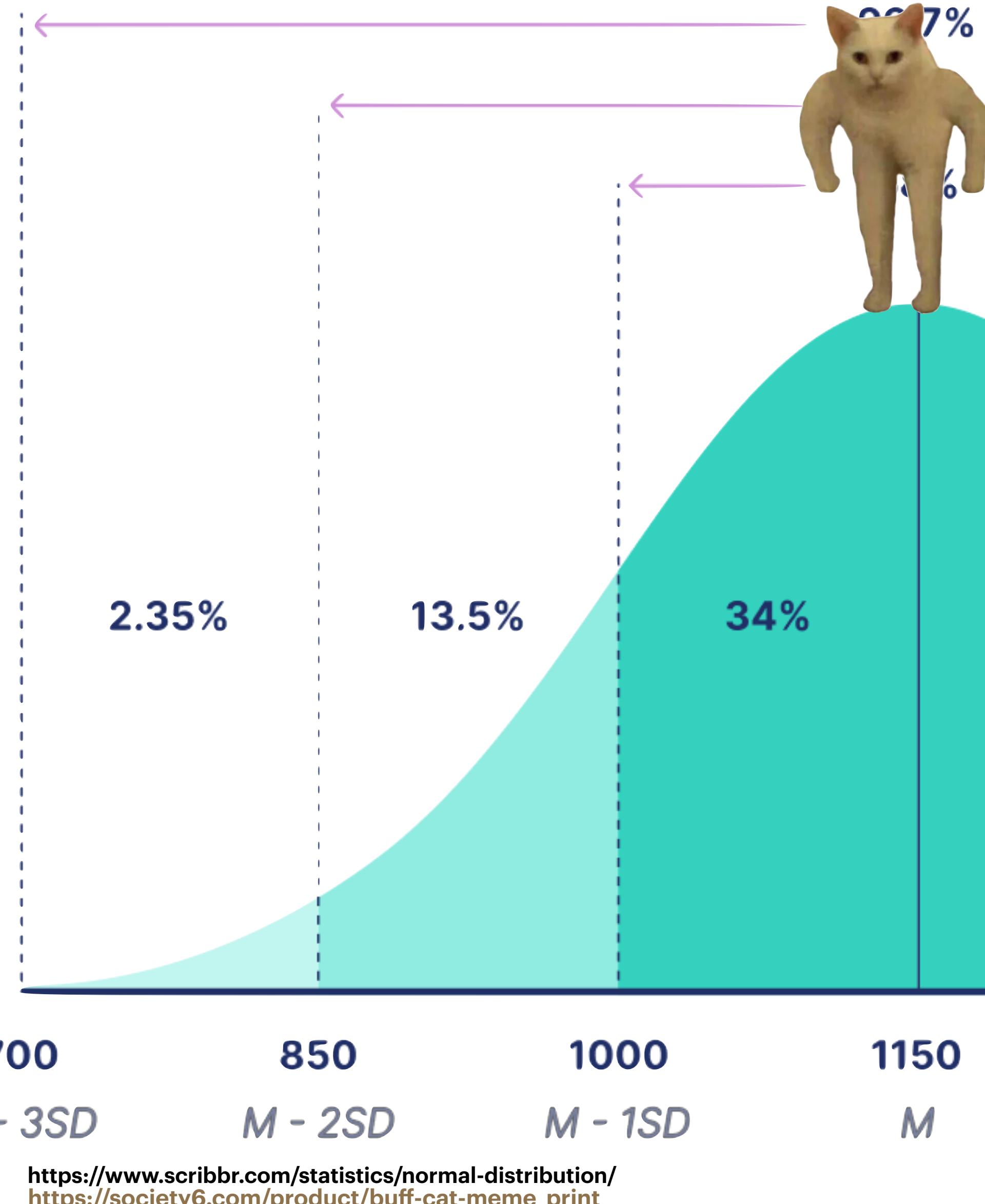


CLASS 3

**NEW SLIDE LAYOUT?? PERNILLE JUST HAD AN HCI COURSE
(PRACTICING SIMULATIONS, FOR/WHILE LOOPS, IF-ELSE, FUNCTIONS....)**

AGENDA

- A bit of recap: What does it mean to **sample** and to **simulate** and what does it mean to do it from a **distribution**?
- For loops, while loops, if-else statements —> exercises
- More exercises

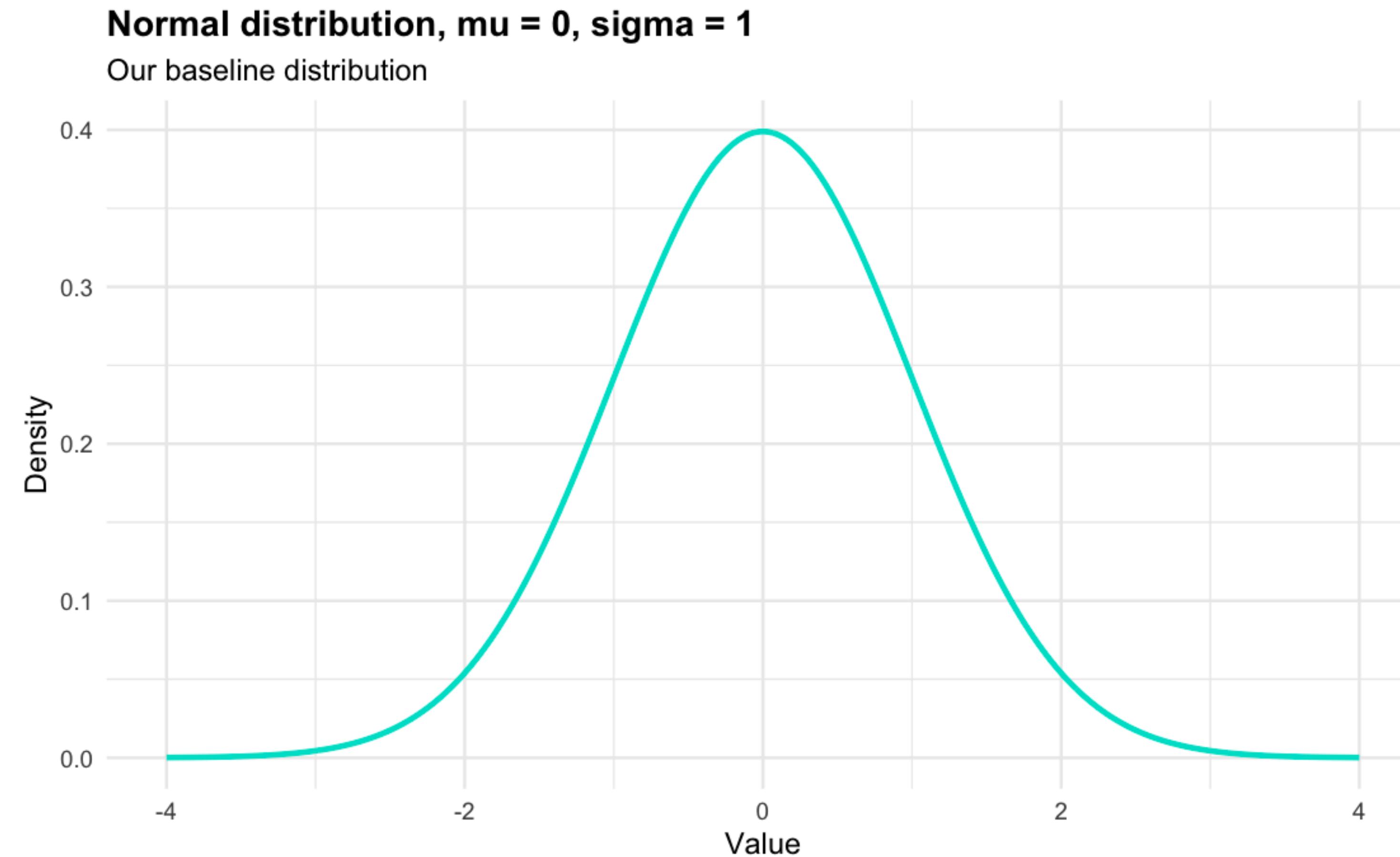


SAMPLING / SIMULATING

randomly selecting values from distributions, where the distributions represent the probabilities of different outcomes

SAMPLING / SIMULATING

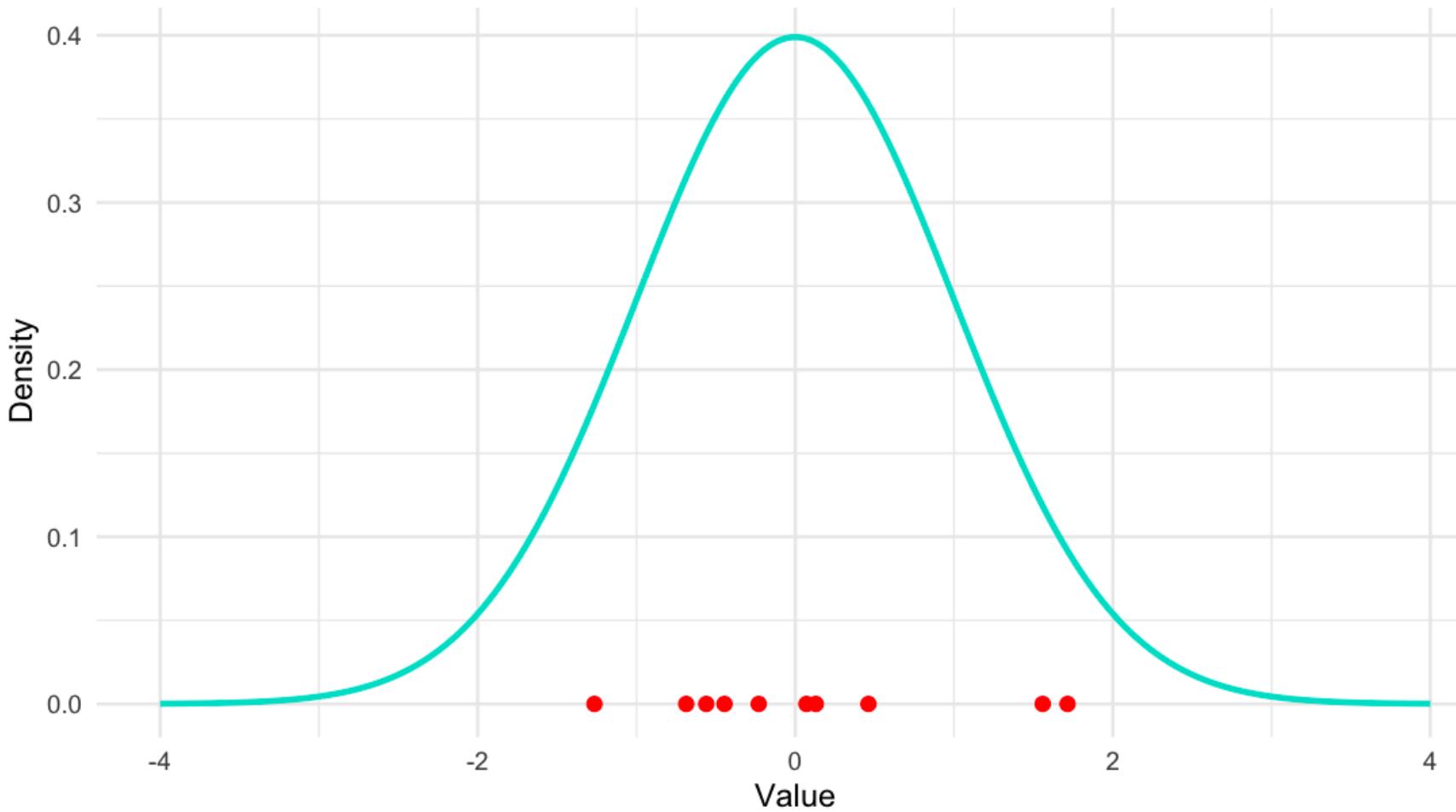
randomly selecting values from distributions, where the distributions represent the probabilities of different outcomes



SAMPLING / SIMULATING

randomly selecting values from distributions, where the distributions represent the probabilities of different outcomes

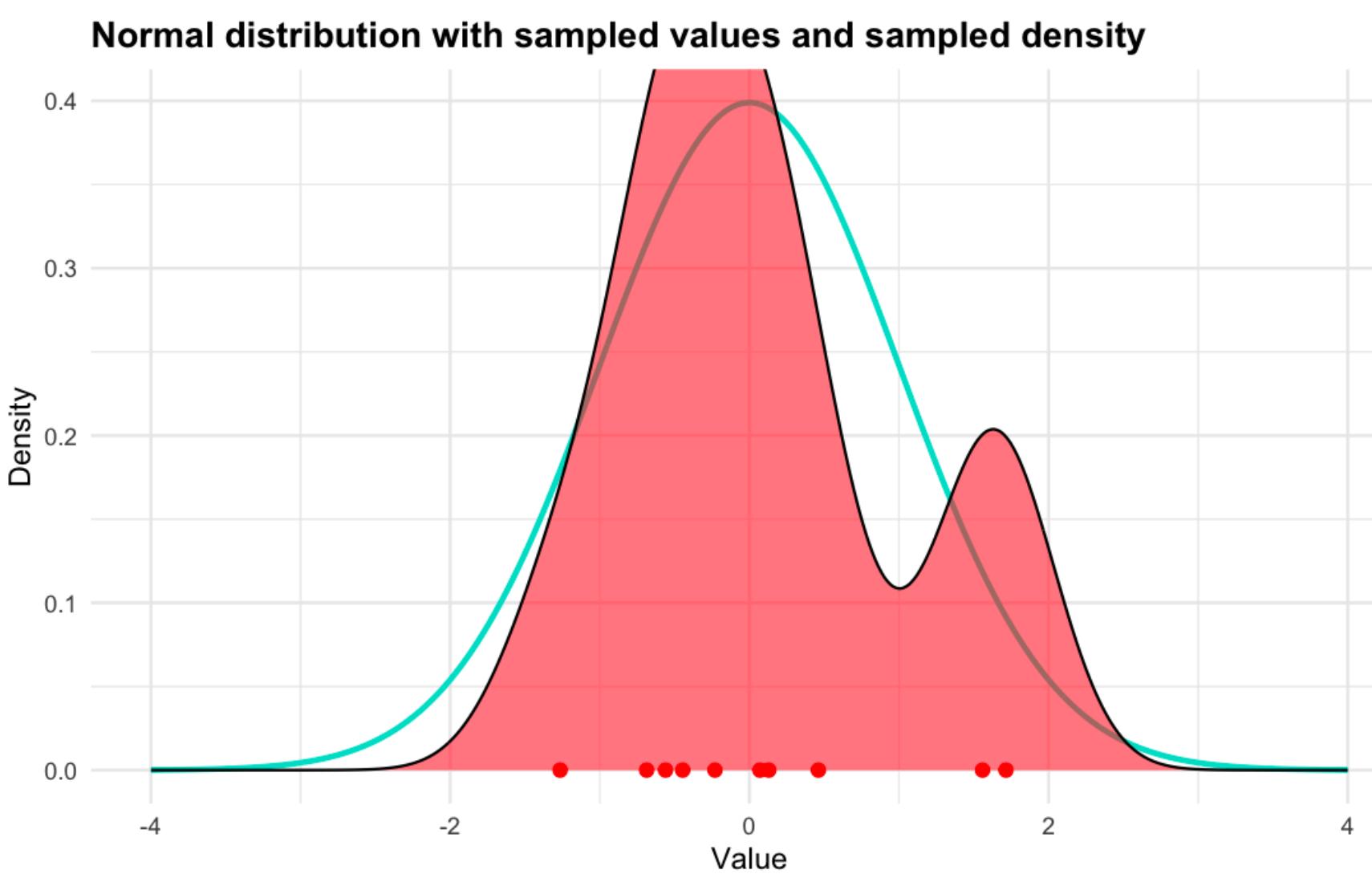
10 sampled values



20 sampled values



50 sampled values

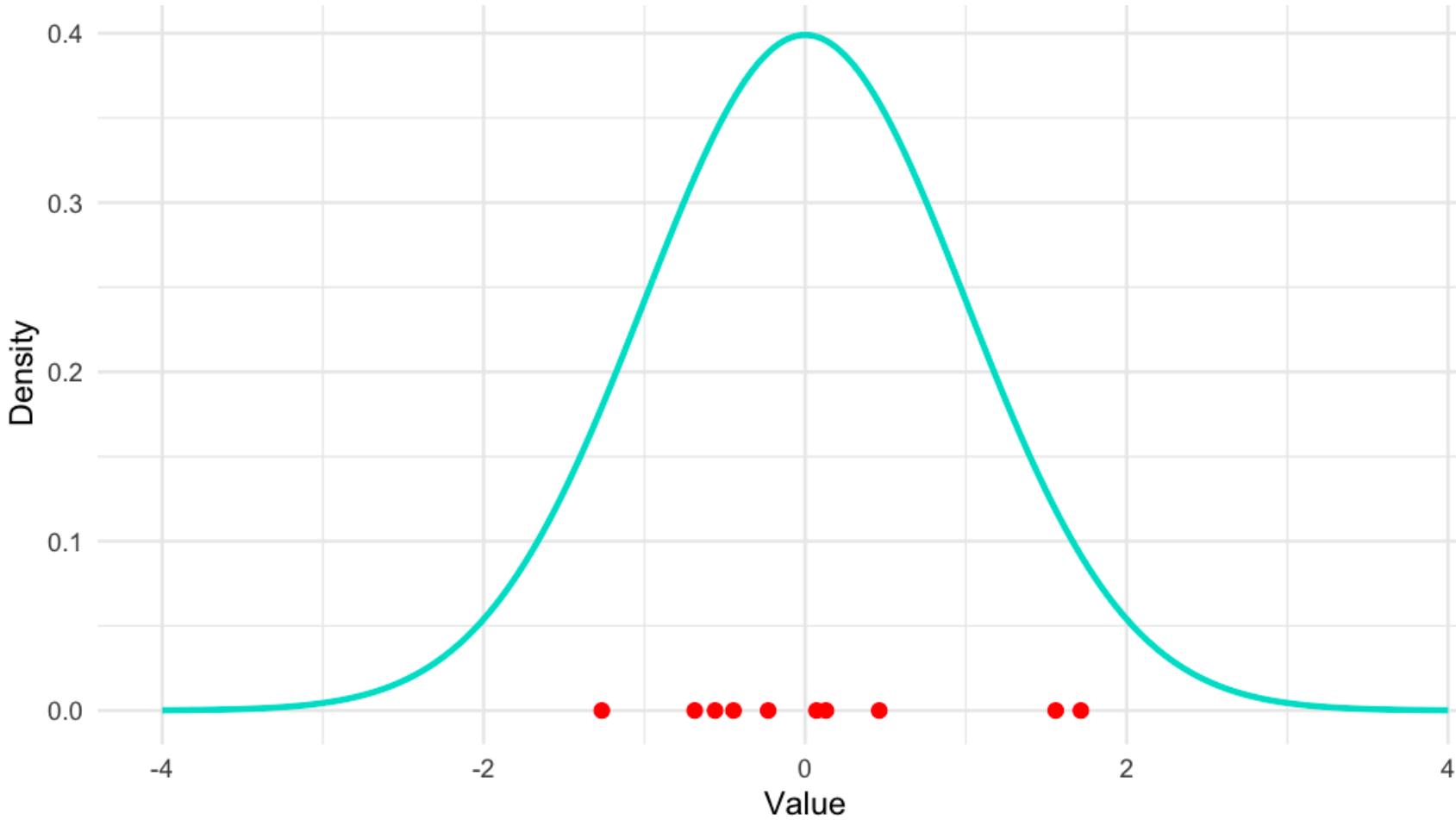


Normal distribution with sampled values and sampled density

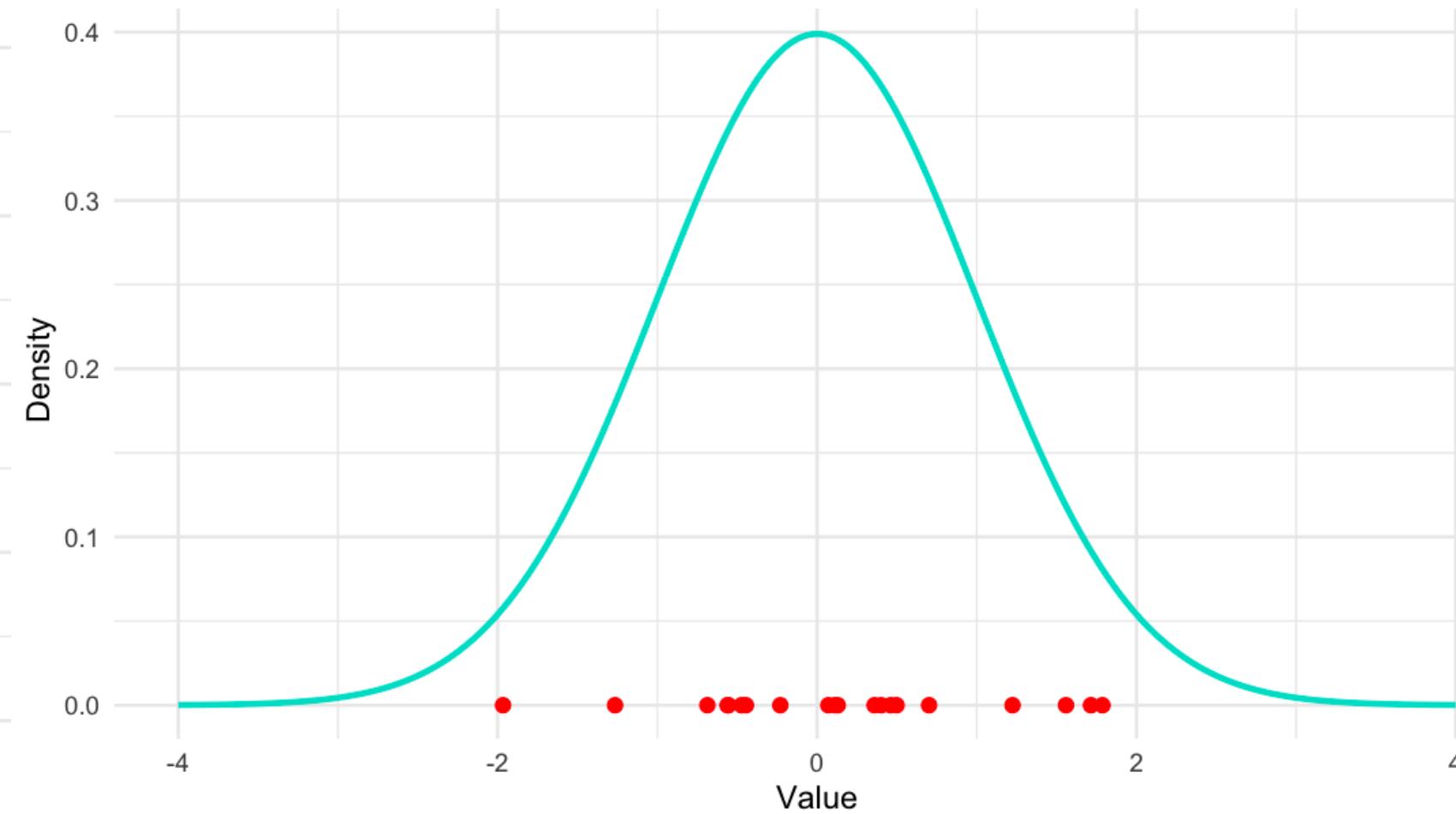
SAMPLING / SIMULATING

randomly selecting values from distributions, where the distributions represent the probabilities of different outcomes

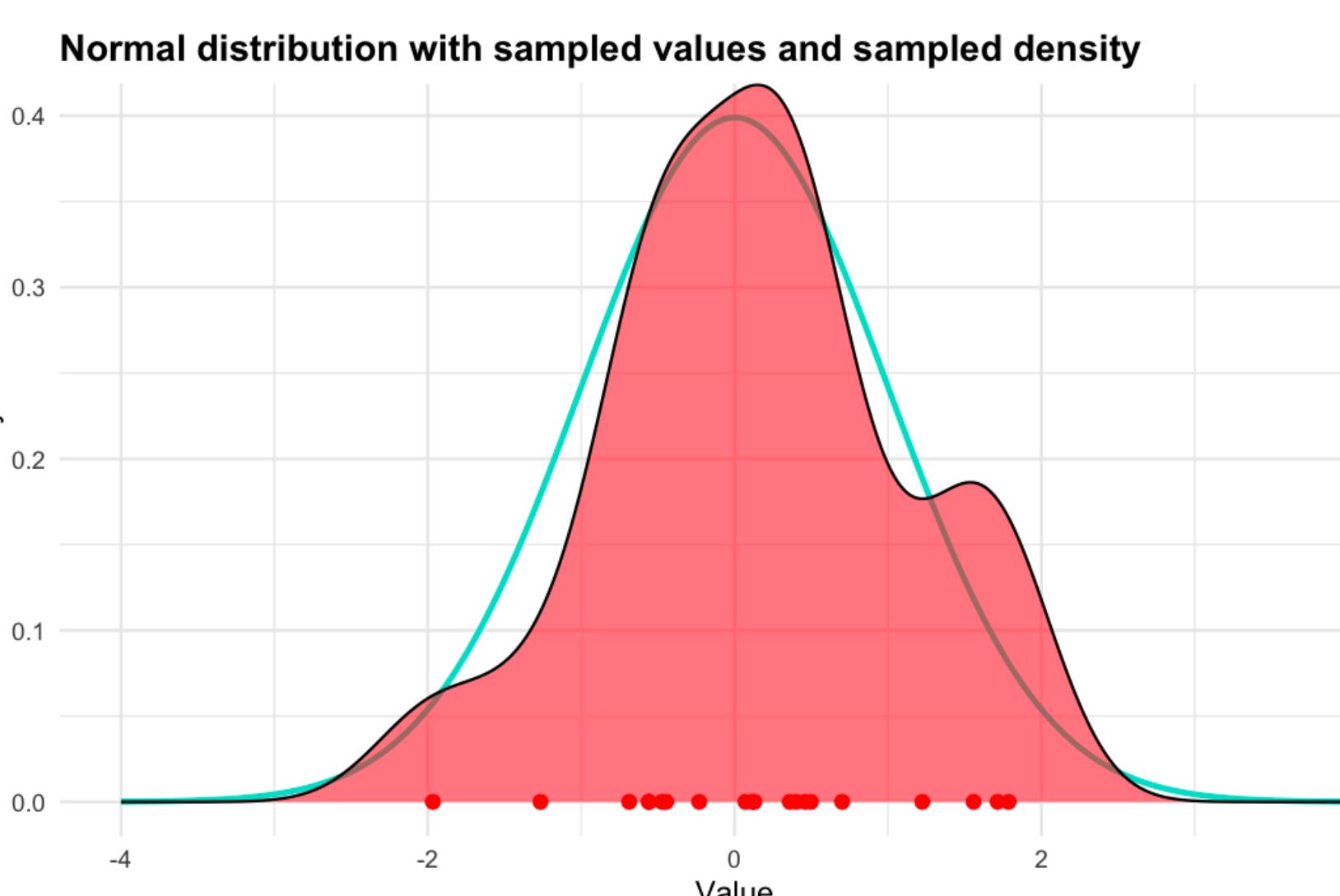
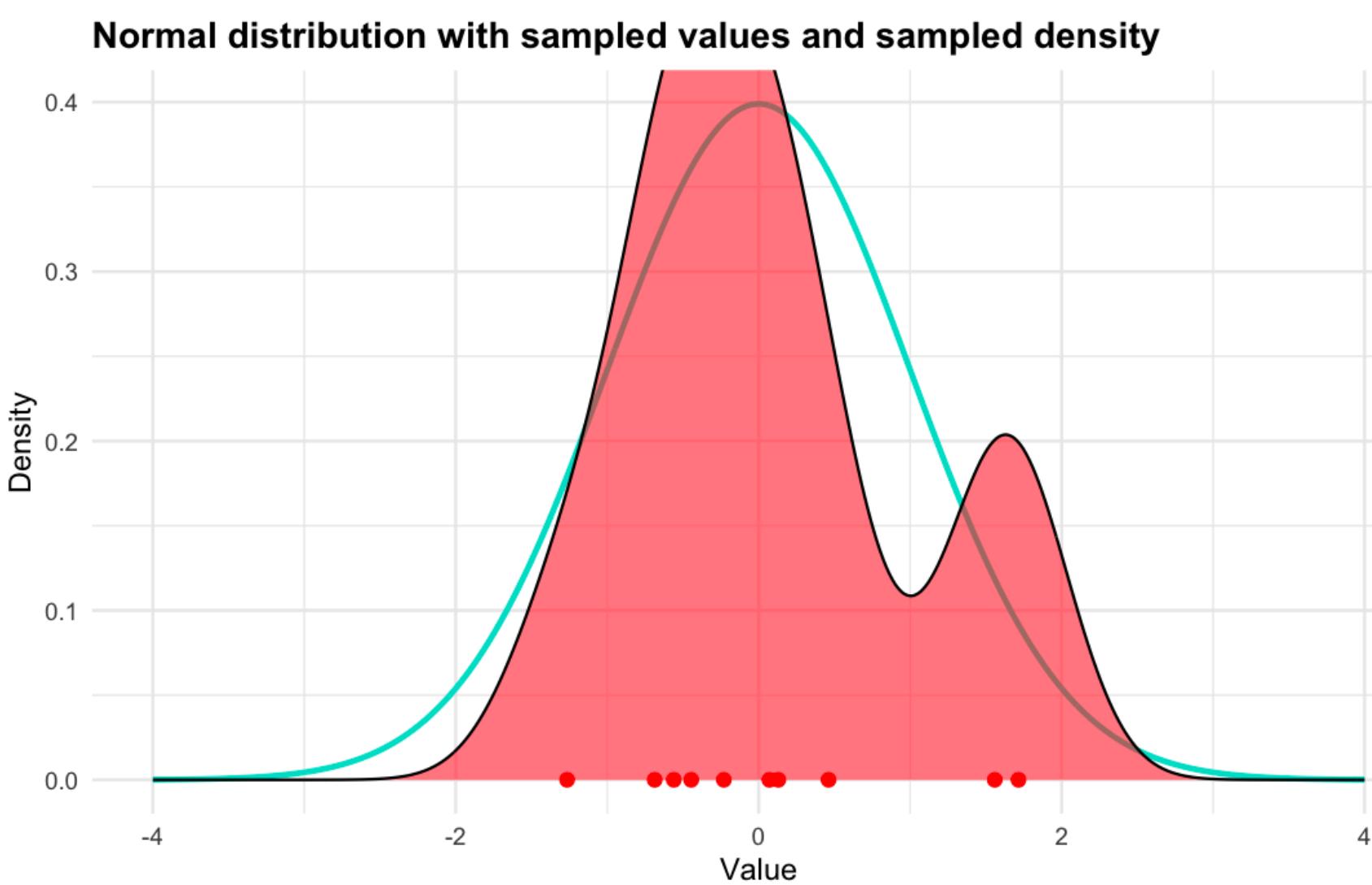
10 sampled values



20 sampled values



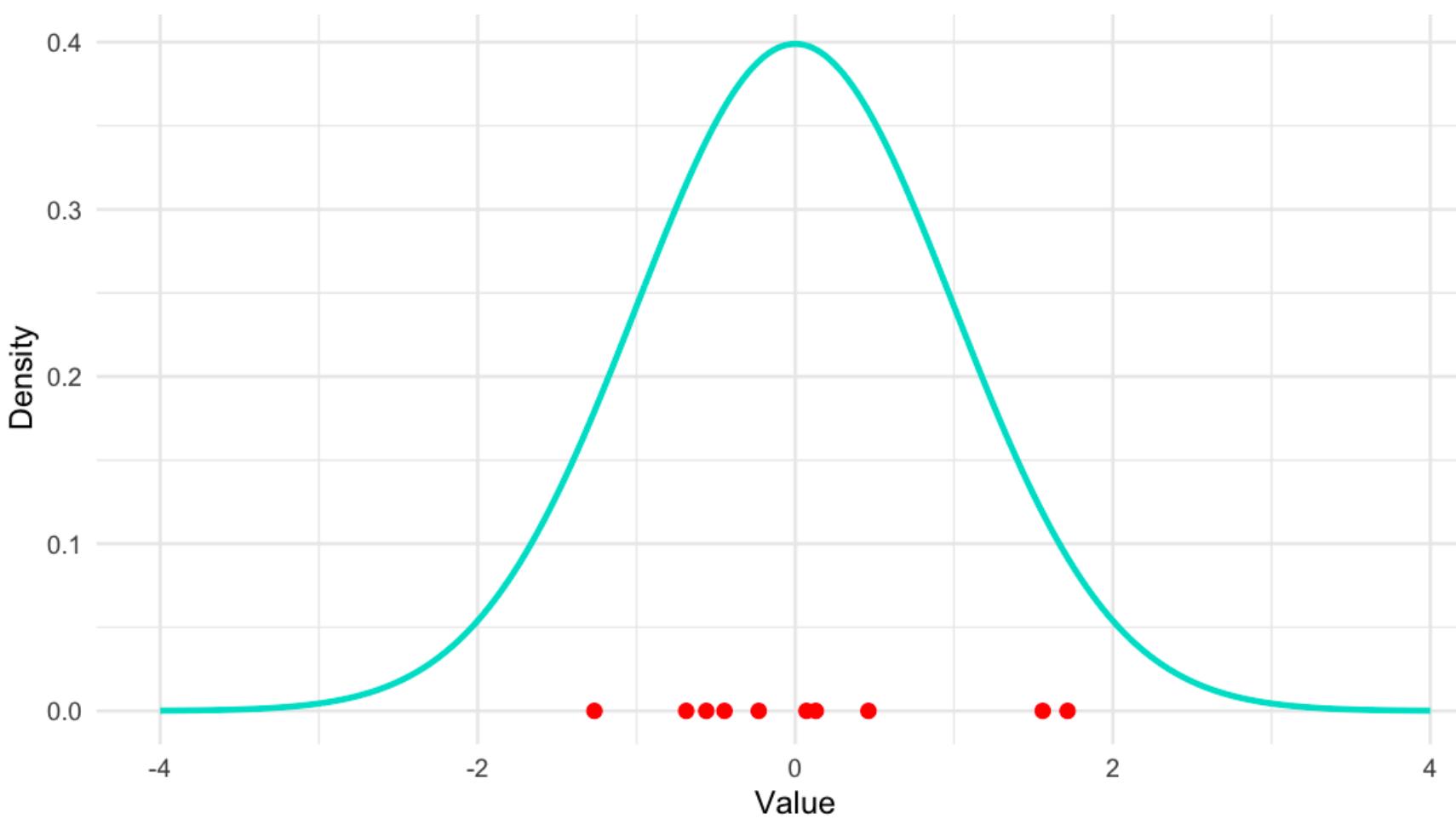
50 sampled values



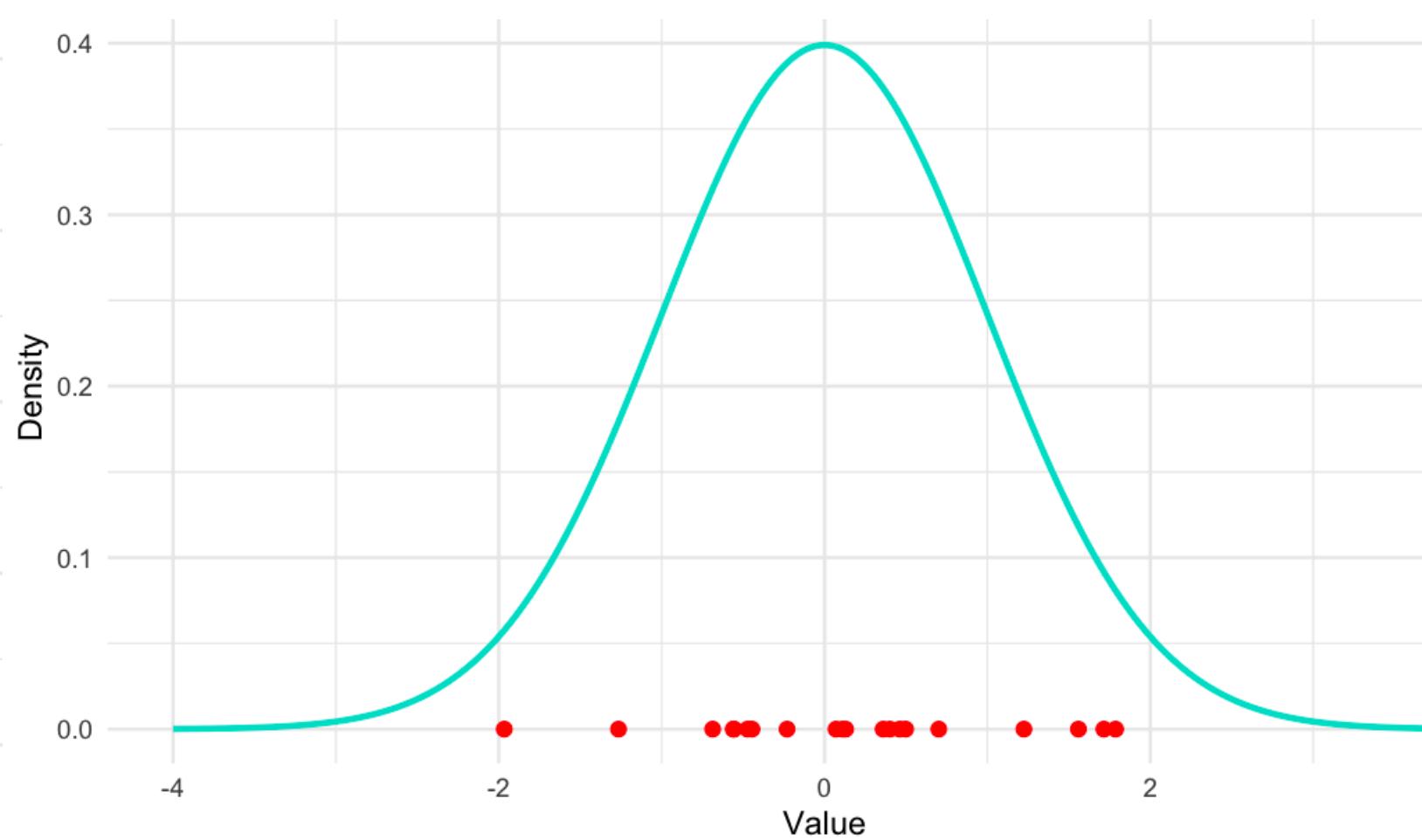
SAMPLING / SIMULATING

randomly selecting values from distributions, where the distributions represent the probabilities of different outcomes

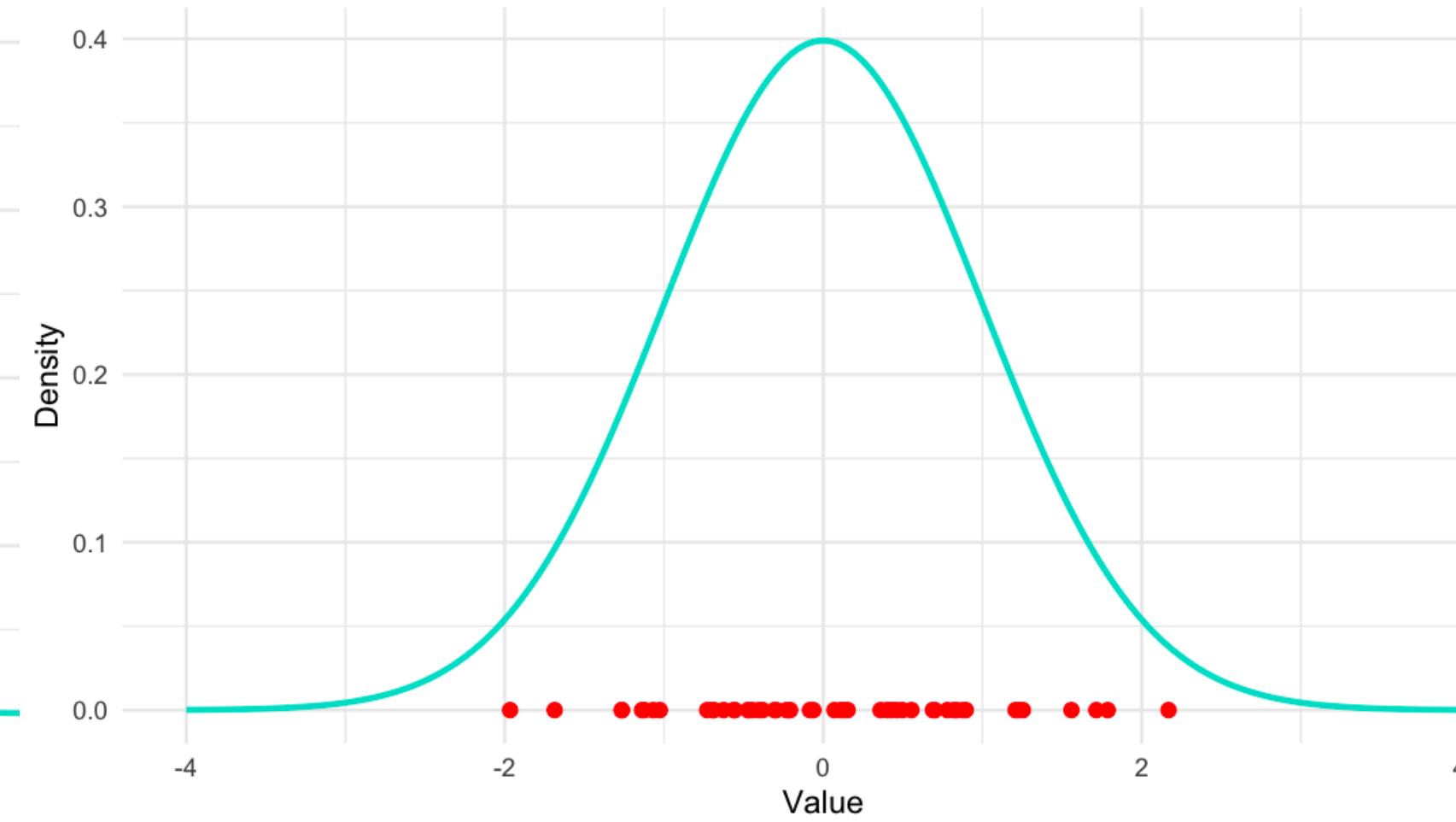
10 sampled values



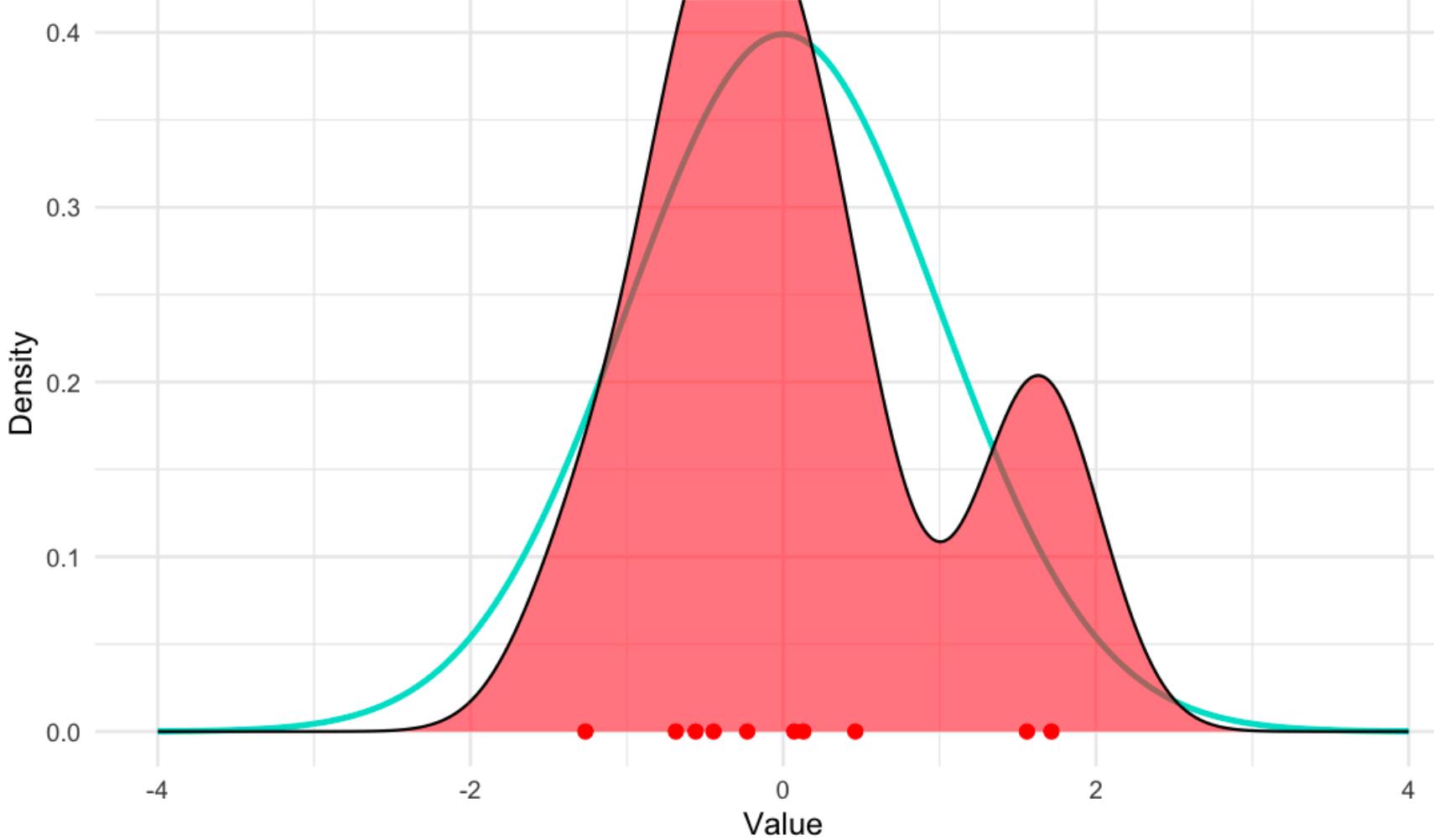
20 sampled values



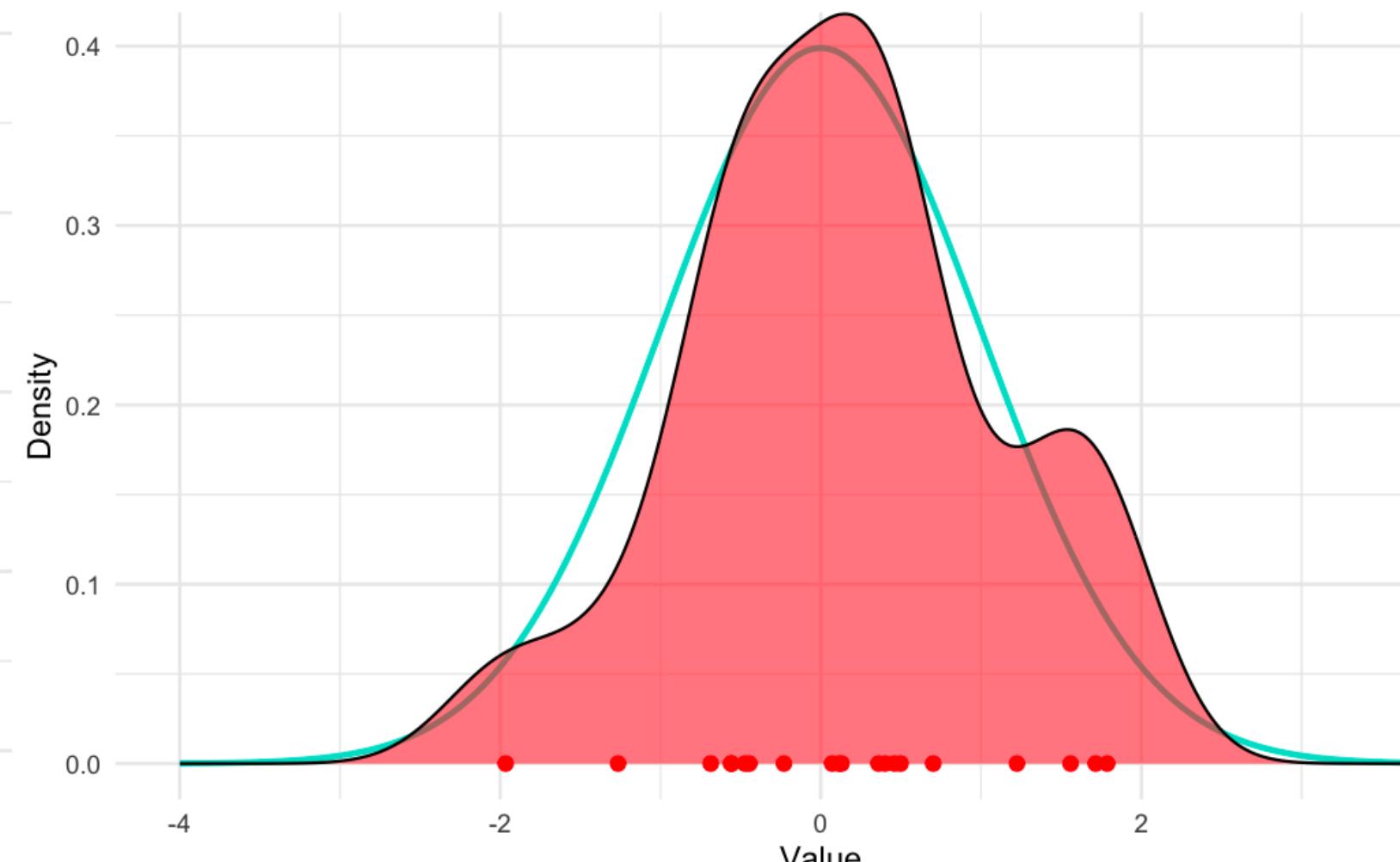
50 sampled values



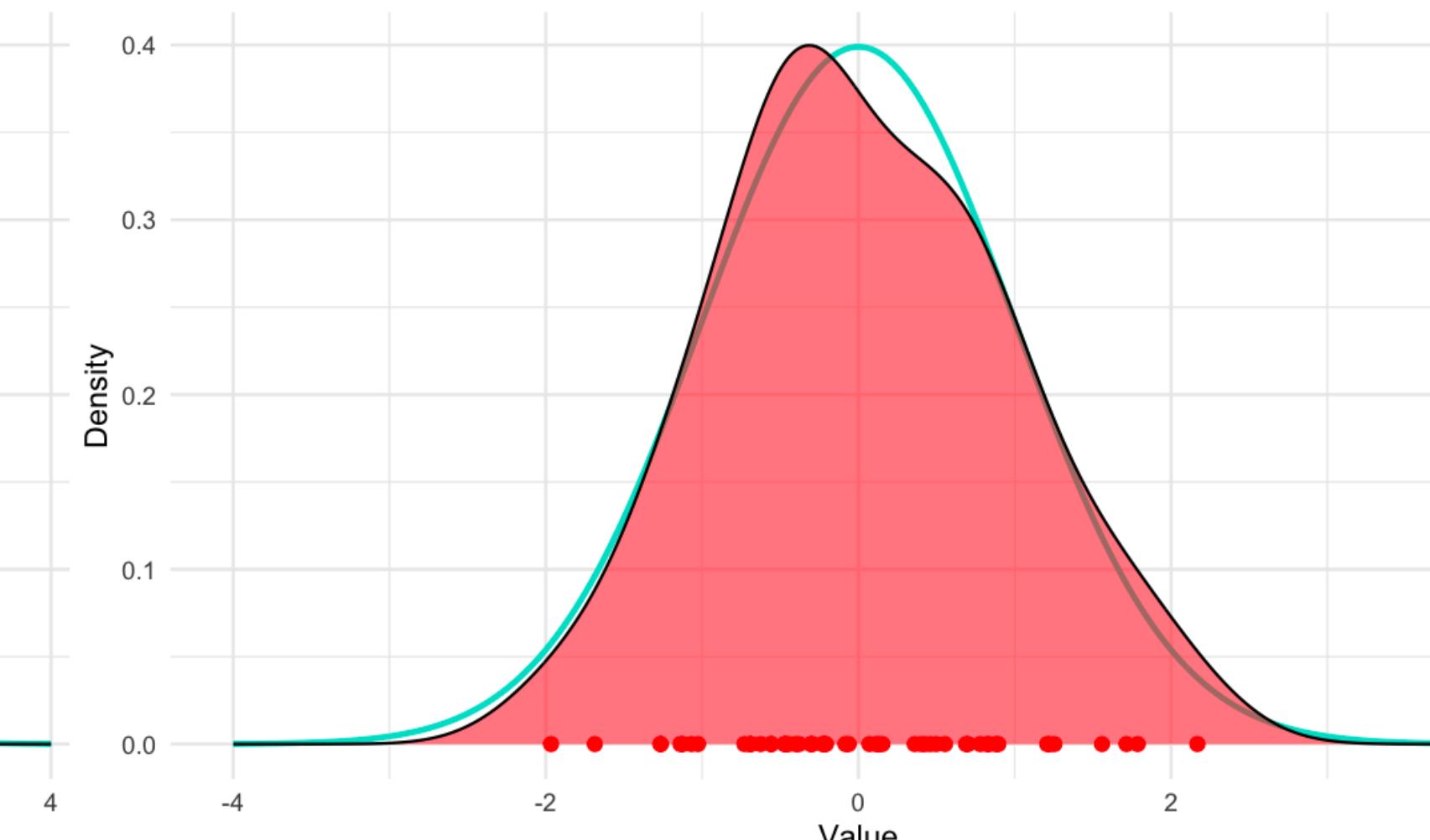
Normal distribution with sampled values and sampled density



Normal distribution with sampled values and sampled density



Normal distribution with sampled values and sampled density

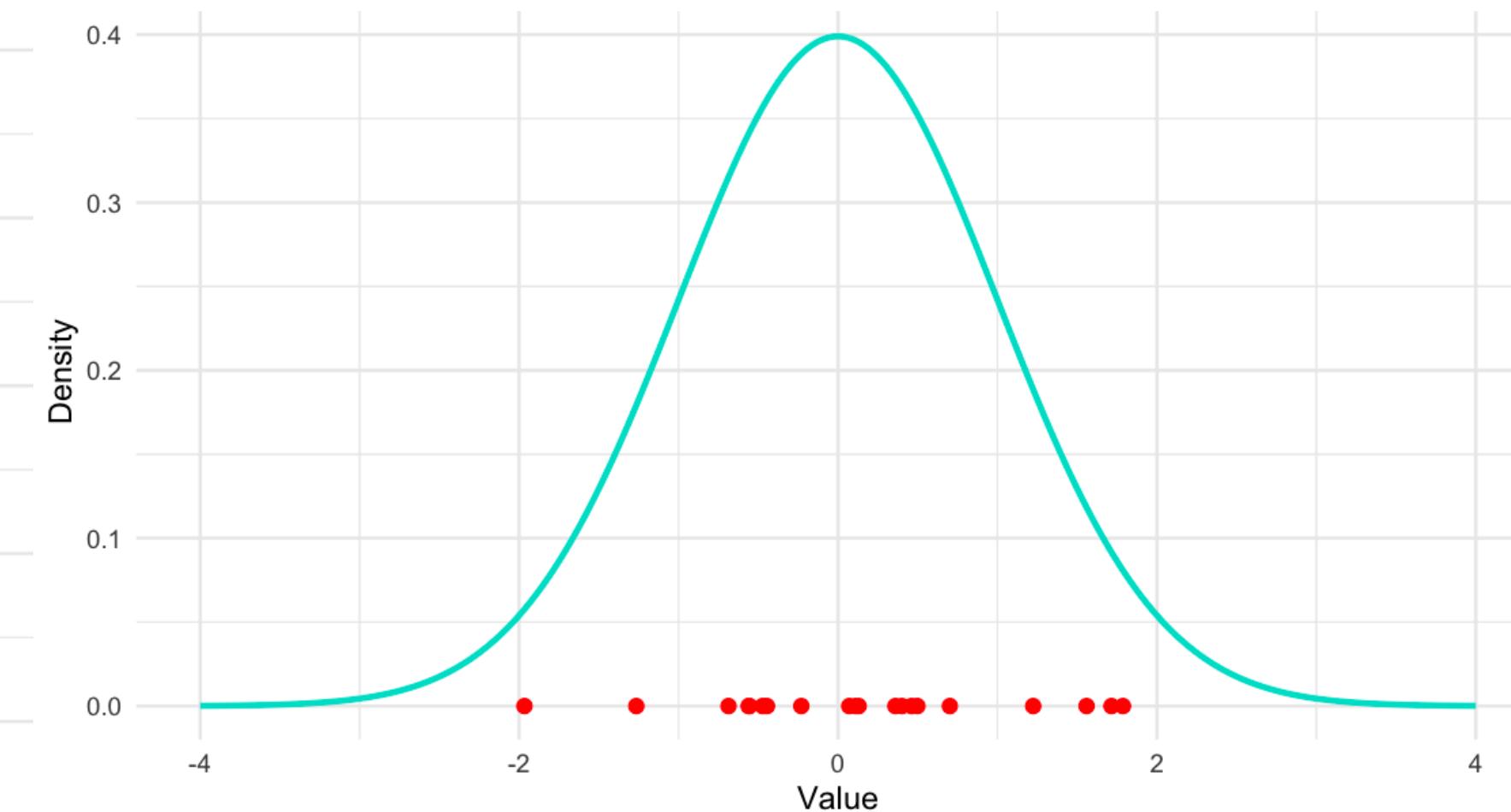


SAMPLING / SIMULATING

randomly selecting values from distributions, where the distributions represent the probabilities of different outcomes

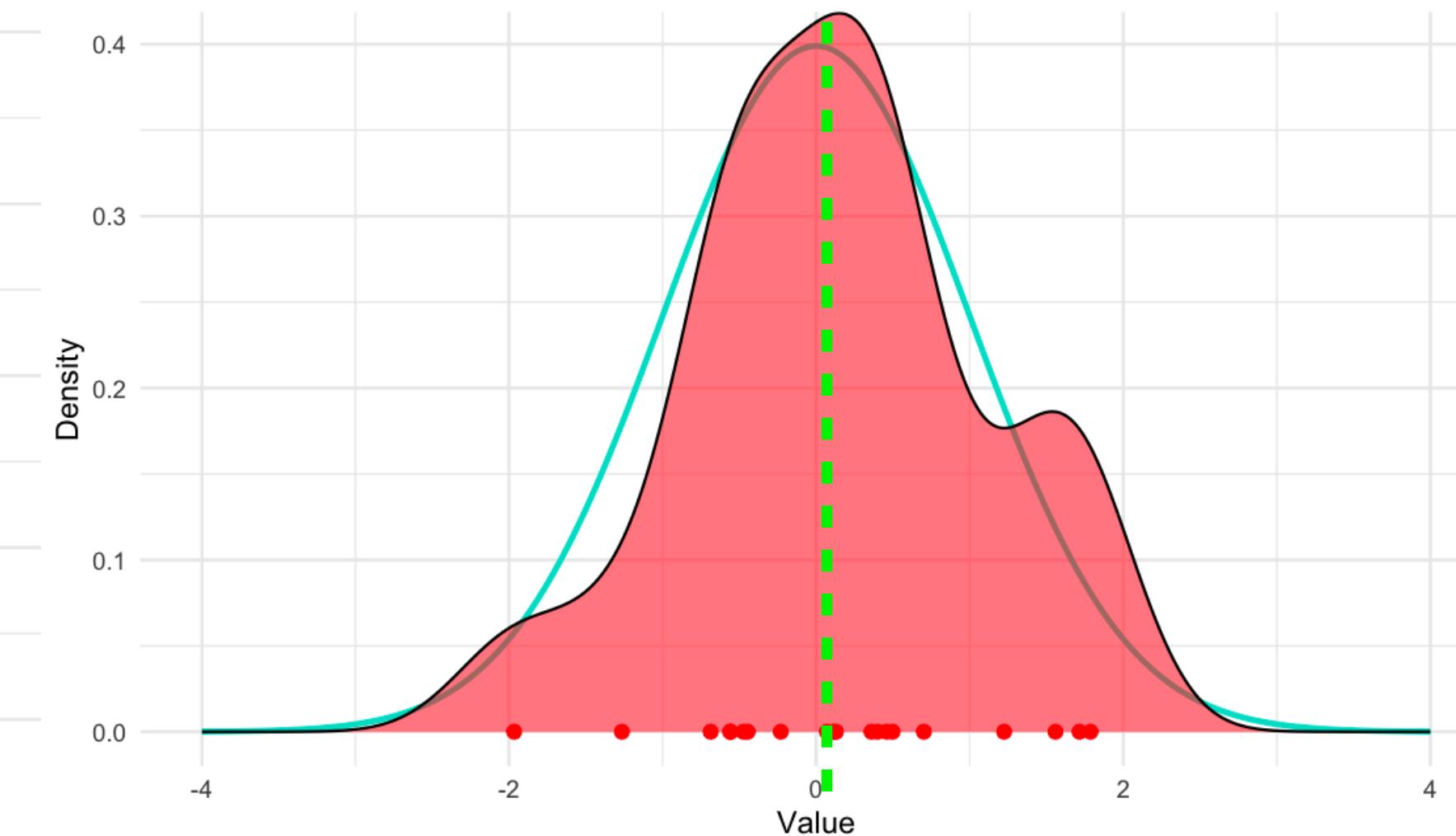
The smooth curve
tells you where
the data is "piling
up".

20 sampled values



Height of the
curve indicates
relative likelihood
of value

Normal distribution with sampled values and sampled density



LET'S CODE A BIT

- For loops
- While loops
- If-else statements
- Functions (again)

EXERCISES

A screenshot of a Spotify playlist titled "methods 2222222". The playlist is public and has 33 songs, 1 hour 55 minutes long, and 8 likes. It was created by Pernille Brams and 8 others. The interface shows album art for "Isas Stepz" and "K.I.D.S. (Deluxe)". Below the album art are playback controls: play, shuffle, repeat, download, add to library, and more options. A search bar and a "Custom order" button are also visible. The main content area displays a table of song details:

#	Title	Album	Added by	Length
1	The Spins E Mac Miller, Empire ...	K.I.D.S. (Deluxe)	Pernille Bra...	3:16
2	Himmeldiskoteket Isas Stepz	Isas Stepz (Musikken ...)	Pernille Bra...	3:37
3	Sinner	Prelude to Ecstasy	forao.reka2...	2:56

Collab: <https://open.spotify.com/playlist/5UUiKD15vyFwymQ4qLur9V?si=cf80f6c72721427c&pt=a27065eeba53e23fe2dd160612aa5598>