CS UNPLUGGED at a distance

Information Theory

Key question

- How can information be measured?
- What is entropy?

Claude Shannon

Shannon's prediction and entropy of printed text experiment

Available alphabet

Click the character you expect to be next in the sentence.

Tip: The ␣ character is used to represent the space character between words.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ␣ .

Sentence

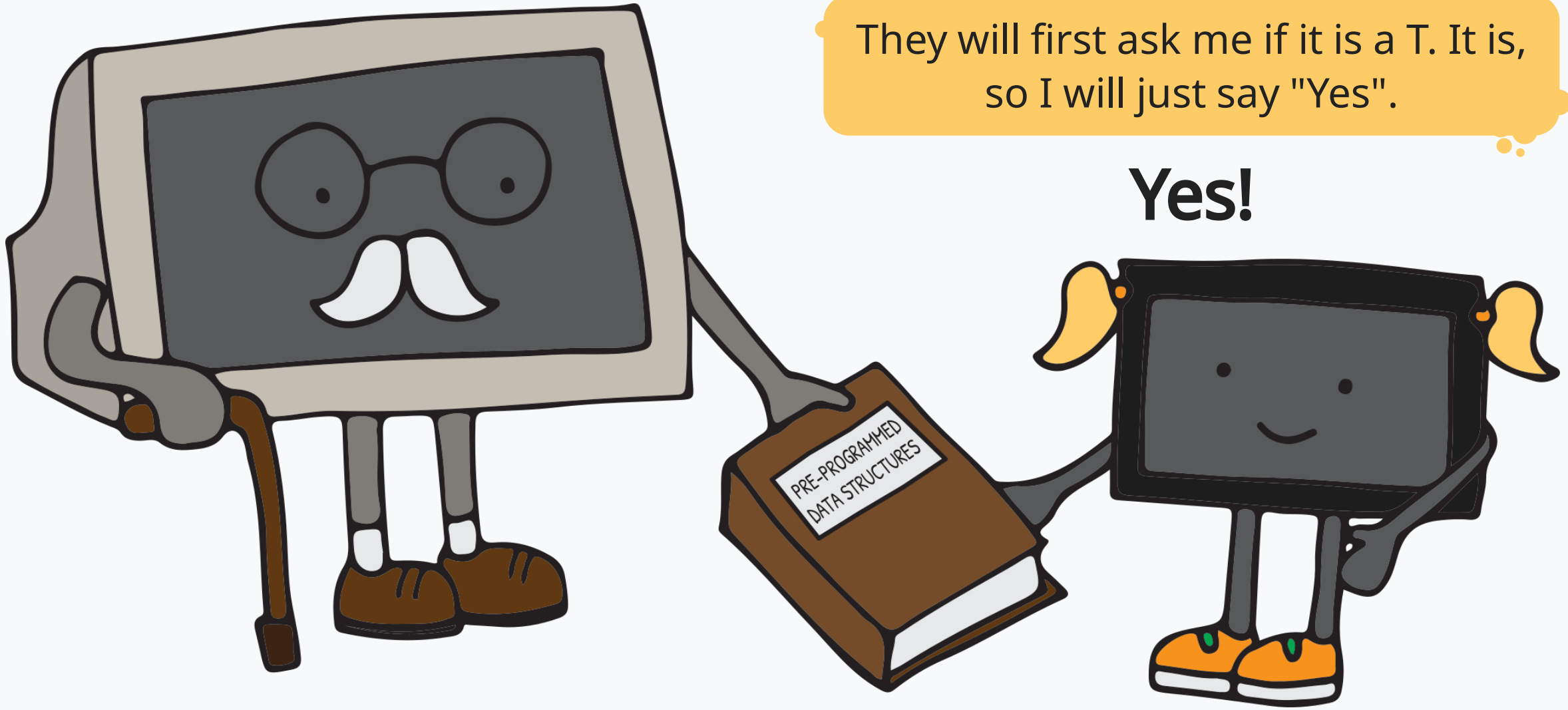
?

0

Show statistics

I think I will ask if it is a T.

They will first ask me if it is a T. It is, so I will just say "Yes".



JPEG
83kb

Message:

a a a a a a a a a

What comes next?

Message:

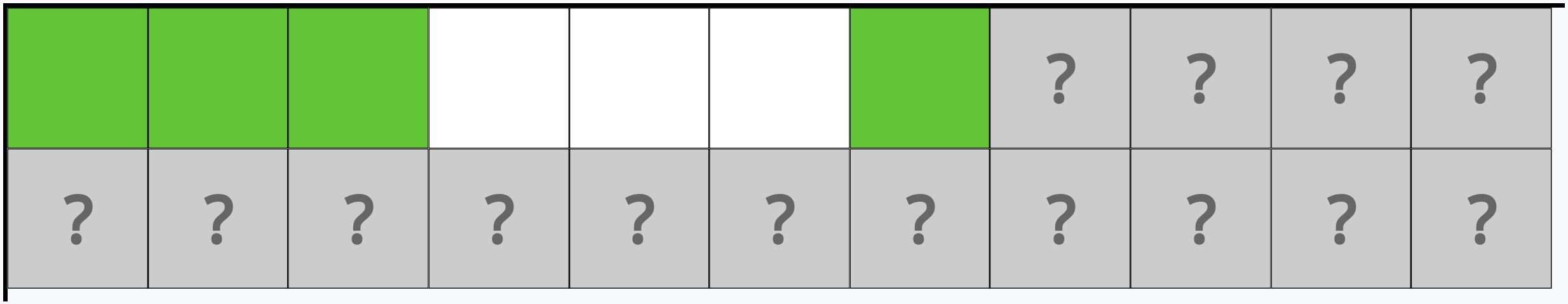
Z q a v

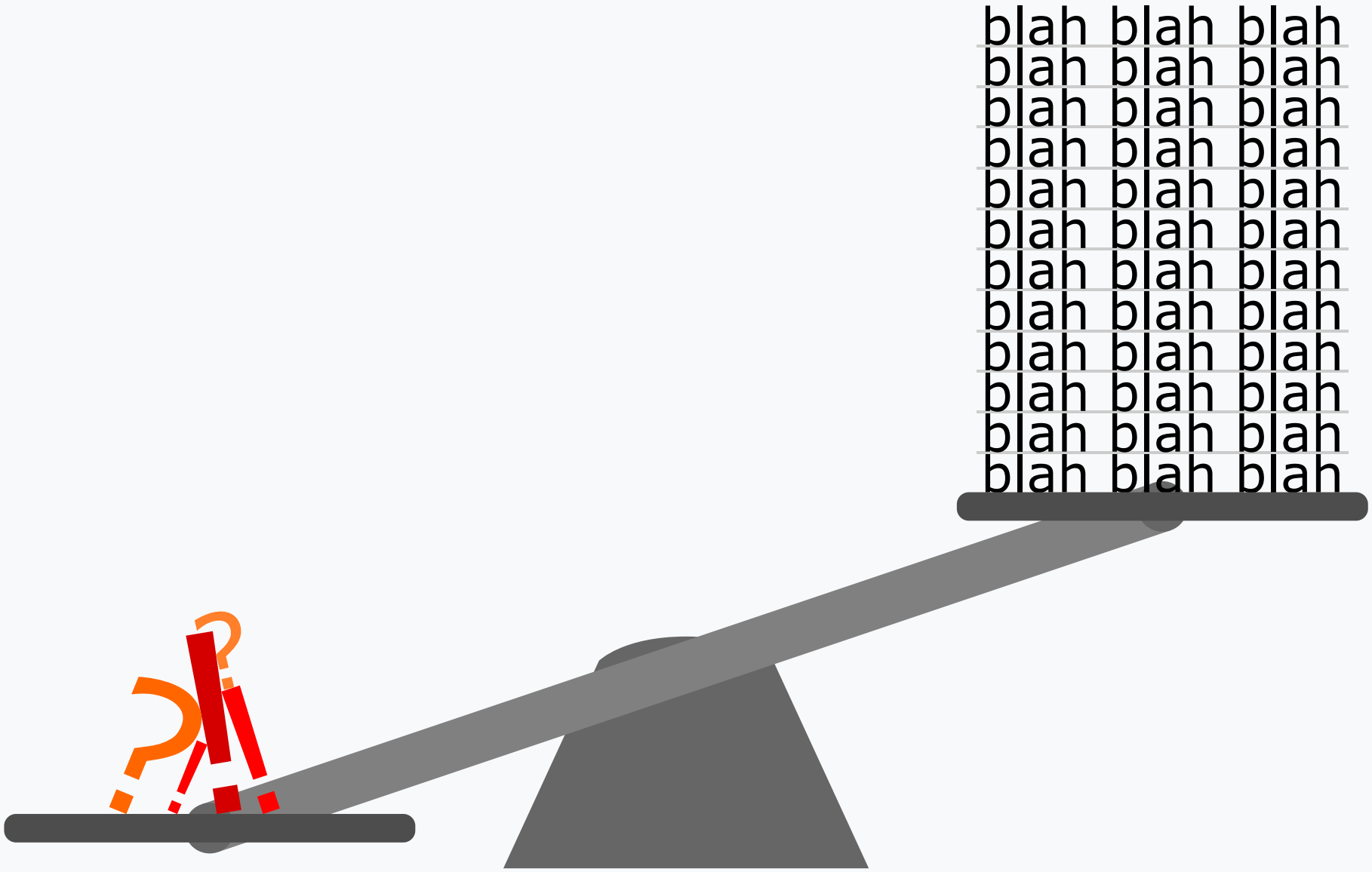
What comes next?

Message:

a b c a b c a b c

What comes next?




blah blah blah
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blah blah blah

Supporting Resources

- Original CS Unplugged activity

  `https://classic.csunplugged.org/activities/information-theory/`

- Computer Science Field Guide: Shannon interactive

  `https://www.csfieldguide.org.nz/en/interactives/shannon-experiment/`

- CS Unplugged at home: Guess the sentence

  `https://www.csunplugged.org/en/at-home/guess-the-sentence/`