Information Theory
Key question

• How can information be measured?
• What is entropy?
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.


Sentence

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".

Yes!
Message:

\[ \text{a a a a a a a a a a a a a a} \]

*What comes next?*
Message:

Z q a v

What comes next?
Message:

a b c a b c a b c

What comes next?
Supporting Resources

- **Original CS Unplugged activity**
  https://classic.csunplugged.org/activities/information-theory/

- **Computer Science Field Guide: Shannon interactive**

- **CS Unplugged at home: Guess the sentence**