



FASTA sniffer

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“The Treachery of Images”



Four distinct concepts

- The FASTA file on disk
- The name of the file on disk
- The File object representing the FASTA
- The line of text we see at the moment

File types and modes

- Text files contain printable characters and are separated into lines by EOLs.
- When we open a text file, we need to choose a mode:
 - “r”: read-only
 - “w”: write (replacing existing file)
 - “a”: append to existing file
 - Each of these has a “+” special mode.

Common functions for reading text

```
# Create a file object for reading
FileObject = open("filename.txt", "r")

# Read the next line into a string
ThisLine = FileObject.readline()

# Close the file object
FileObject.close()
```

Using a *for* loop for reading

```
FileObject = open("filename.txt", "r")  
for ThisLine in FileObject:  
    print(ThisLine)  
FileObject.close()
```