

ASCII code

065 083 067 073 073 032 099 111
100 101

This is ASCII code

ASCII is the way that every key you press on the keyboard is stored by the computer

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Everything that gets stored in computers has to become a number

Everything

That means the colour of each pixel in an image needs to be a number (from 0 to 16.78 million)

Or the sound for each tiny part of a second of music needs to be a number (44,100 numbers per second)

Or every key on a keyboard

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So, when you press a G, the computer stores it as 071

You understand it as a G; the computer doesn't - it just knows it as character 071

- g is 103
- h is 104
- i is 105

And so on - for every character on the keyboard

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This is why Python thinks that “Y” and “y” are different things

One is 089 and the other is 121

Which is why using `.upper()` or `.lower()` is so helpful

We can make an ASCII translator using Python really easily

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**YOU WILL NEED TO CREATE AT LEAST
2 SEPARATE PROGRAMS**

**LOOK OUT FOR THE INSTRUCTION TO
START A NEW PROGRAM**

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The key commands:

Convert to ASCII:

```
theCode = ord(theLetter)
```

Convert from ASCII:

```
theLetter = chr(theCode)
```