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Make a character's lips move in sync with your voice.

1) Download graphics from: https://codeclub67.github.io/images/lips.gif



2) Create a new sprite from lips.gif

Look at the sprite's **Costumes**. There are 26 (+1 extra) mouth shapes, one for each letter of the alphabet.

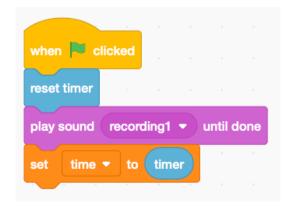
3) Give each costume a new name, starting at "a" through to "z".



- 4) There's one extra costume, call this "rest" for when it's not speaking.
- 5) Record a phrase on the **Sounds** tab. I recorded "The quick brown fox jumps over the lazy dog" (which uses every letter of the alphabet).

How long is your sound?

- 6) Create a variable, **time**, for the sound length.
- 7) Add the code to the right, using a **timer** to time the sound.



Click on the green flag to time your sound

To lip-sync, step through the text of the phrase letter by letter, choosing the matching costume for each letter.

- 8) Create variables for the text **phrase**, and for the **letter** counter.
- 9) Add the code to the right. Set up your phrase using only small letters (no capitals).
 Start the sound and lipsyncing by switching costume in a loop.

```
when space ▼ key pressed

set phrase ▼ to the quick brown fox jumped over the lazy dog

start sound recording1 ▼

set letter ▼ to 1

repeat length of phrase

switch costume to letter letter of phrase

change letter ▼ by 1

wait time / length of phrase seconds

switch costume to rest ▼
```

"letter ... of" pulls out a single letter from the phrase, at the letter position. It waits between each letter for the total time divided by the length of the phrase.

10) The sound and lip-sync should stop at the same time, so finish by **switching costume** to **rest**.

Note that spaces in the phrase are just ignored because there's no matching costume.

Use your artistic skills to add a face.

Save your code with a good name. File > Save now

The lip graphics remix a work by Jaida Salmon https://vimeo.com/202873560