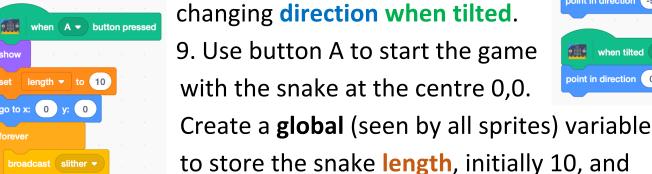
Register/login at https://scratch.mit.edu **Preparation: Requires Scratch Link**

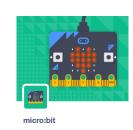
The classic 'Snake' game using the micro:bit tilt sensor. The snake cannot cross itself, but it grows longer when it eats!

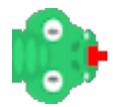
- 1. Create a new Scratch project and add the micro:bit extension.
- 2. Download graphics from: https://codeclub67.github.io/images/snake.gif
- 3. Create a new sprite with the download.
- 4. Duplicate the sprite, and rename it 'tail'.
- 5. Choose the body costume for the tail.
- 6. Plug the micro:bit into the PC with the USB.
- 7. Click on the blocks section. If you see at the top then connect the micro:bit.

broadcast a new message.

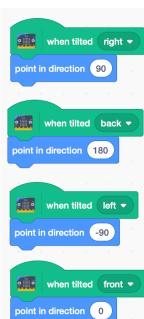
8. Add the code (right) to the snake head,













10. Add **snake** code (right) to receive the message. It grows by **cloning** a **tail** as it **moves**.



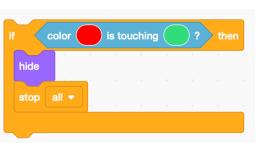


11. Select the tail and create a countdown variable local to the sprite.

12. Add **tail** code (left) that initialises **countdown** to the **length**, and aligns its position and direction with the head.
The tail, initially hidden, is then shown.

13. When the tail receives the message, it counts down, and on 0 deletes itself.





'slithering' code (left) by
detecting GAME OVER
when the snake's red tongue touches
the light green of its own body.

Use the colour picker to get the right colours.



15. Create a "mouse" sprite. The code (right) makes it appear randomly after being eaten.



change countdown ▼ by -1

countdown = 0



16. Finally, extend the **snake** 'slithering' code again (left), detecting when it **touches** the **mouse**, then **gobbles** it up and grows in **length**.

Save your code with a good name.

File > Save now