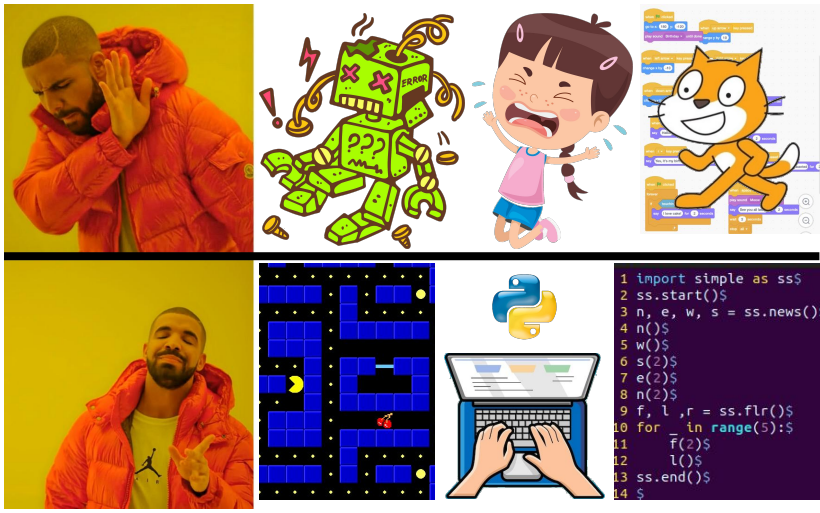
Micromouse 1

Grades 1 to 3

Robotics Programming with python™

You know... for KIDS



Grades 1 to 3

Learn more: https://cloudcage.com

Welcome to the world of Micromouse, a stress-free introduction to programming where early learners get to explore the world of Python, one of the most popular programming languages, vital to the area of Artificial Intelligence! In this class, children will dive into the basics of Python through fun, hands-on activities that allow them to control simple robots to solve problems. They will learn to code using easy-to-understand instructions, and start seeing how easy Python can be to bring their ideas to life.

- Students will learn how to type as they learn simple commands to control both software and hardware robots. This sets them up to program actual Micromouse robots for potential competition in the future.
- What they learn will be immediately and directly usable in the real world as the language they use is ACTUAL Python.
- Students will gain a firm understanding of cardinal directions as well as relative directions as they guide robots through obstacle courses and mazes.
- Using Python, students will build logical thinking and practice breaking problems into small steps. They will learn to experiment and see how small changes create big differences in their solutions
- Students will learn problem solving as they learn how to progress through increasingly challenging levels. They learn engineering through iteration and incremental optimization that they do themselves.
- Every student has their own computer, but this class encourages teamwork with opportunities for students to share their solutions and collaborate on coding challenges. They will develop social skills, communication, and work together to solve problems in a supportive and positive environment.
- Whether solving a simple level or a navigating a complex maze, students will experience the joy of seeing their work come to life, which builds confidence and a sense of accomplishment.