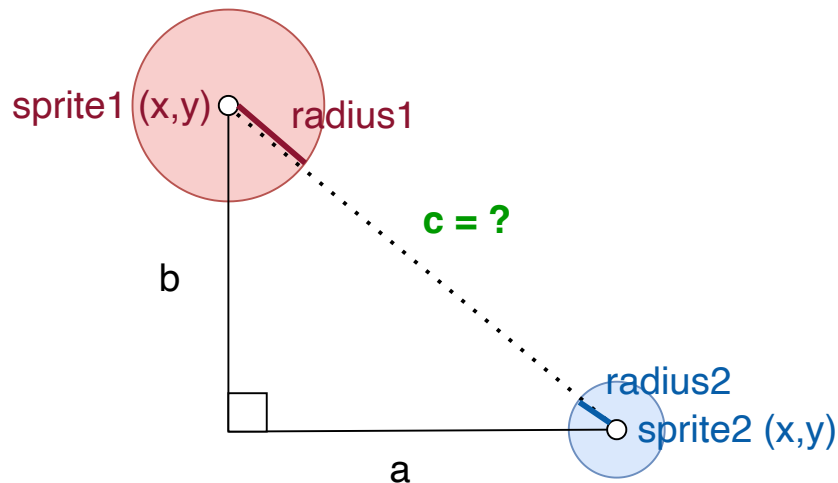


Munch! Radius Testing

GAME2050 Game Programming I



What do we know?

x and y of sprite1

x and y of sprite2

Collision radius of sprite1

Collision radius of sprite2

What do we need to find out?

The distance between the two sprite locations (c) also known as the hypotenuse

Solution : Find a and b and use Pythagorean Theorem to find c

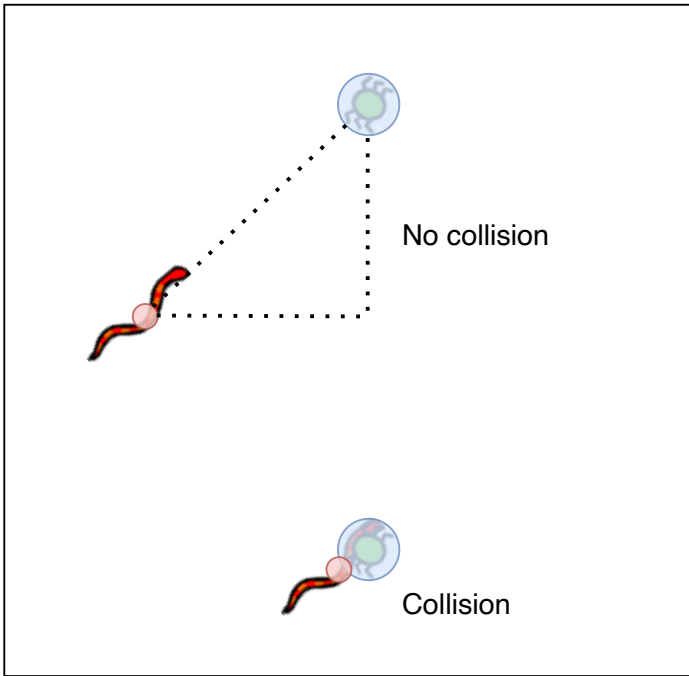
$$a = \text{sprite2X} - \text{sprite1X}$$

$$b = \text{sprite2Y} - \text{sprite1Y}$$

$$c = \sqrt{a^2 + b^2}$$

Collision occurs if the following conditional expression is true:

$$c \leq \text{radius1} + \text{radius2}$$



Stage