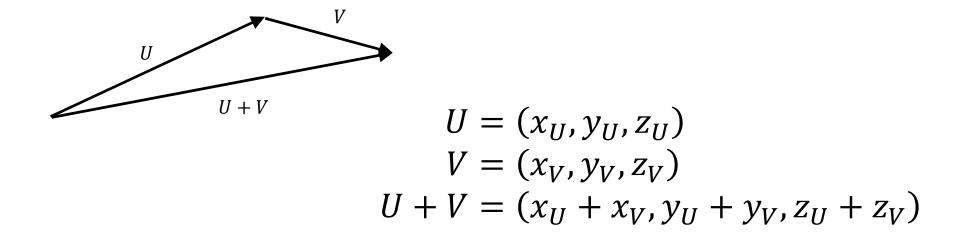
101pong-bootstrap

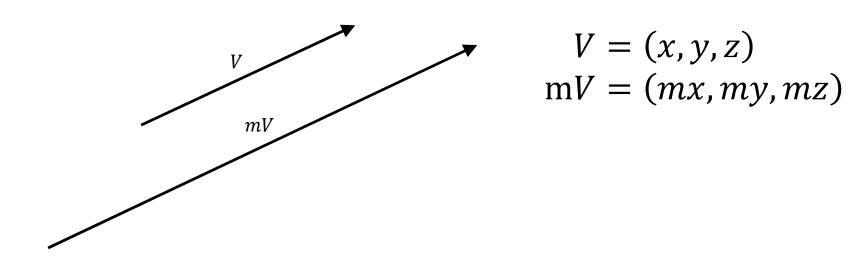
B-MAT-100

- Create a function that takes 3 coordinates x, y and z and returns the corresponding vector
 - Think about how you want to represent a vector!

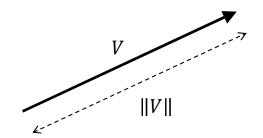
- Create a function that takes 2 vectors and returns the sum
- Create a function that takes 2 vectors and returns the difference



 \bullet Create a function that takes a vector V and a coefficient m and returns mV



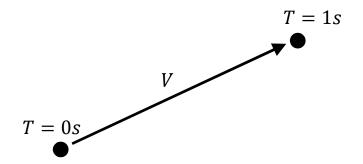
• Create a function that takes a vector and returns its norm



$$V = (x, y, z)$$

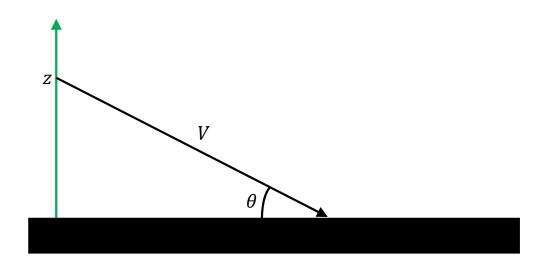
||V|| = $\sqrt{x^2 + y^2 + z^2}$

• Create a function that takes the 7 arguments of the project and returns the position of the ball at t+n.



• Create a function that takes the 7 arguments of the project and checks if the ball is going to hit the bat.

• Create a function that takes a vector and returns the angle between the vector and the plane (Oxy)



$$\theta = \arcsin\left(\frac{z}{\|V\|}\right)$$