

Throwing dice

# Introduction

In this lesson, we will learn how to use one of the micro:bit built-in sensors - the motion sensor. And let's make a random dice program out of it.

# Necessarry:

* Micro:bit controller
* USB cable
* Micro:bit program or internet link in which to do programming
* Batteries to connect to the micro:bit controller

# How it works:

The Micro:bit controller has several sensors, including a motion sensor. When shaken, it reacts to movement. If in the code there is a requirement to respond to movement (in this case, to purring), then the command executes when the controller is shaken.

# Process!

1. From the **input** choice, take the command **on shake**
2. From the **basic** choice, take the command **show number** and insert it **in On shake loop**.
3. From the **math** choice, take the command **pick random ...to...** and insert it **in show number command**.
4. **Record** **the numbers** you choose. If you want to imitate a throwing dice, then you need to choose numbers from **1** to **6**.

A screenshot of a computer

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# Challange

Conduct an experiment and find out how often each result appears, at a specific number of purges. And if the experiment is repeated, does the result coincide with the previous one.

Now let's write the same thing in the **Python code**:A screenshot of a computer

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