

# Artificial Intelligence (AI)

## 1. How can we define AI?

Artificial Intelligence can be defined by the invention of machines that have the ability to process information and carry out tasks as a human does.

## 2. 3 sub-divisions of AI:

- Computer Vision
- Machine Learning
- Robotics

## 3. Why is AI booming now?

We can thank the increased amount of data we can store, evolvement of more complex algorithms and deep learning (which has produced much more complex ways to identify patterns) for the increased interest in AI.

## 4. 3 uses for robotics

- Surgery – robots allow for less invasive procedures to be carried out by making smaller incisions and allowing doctors to maneuver internally using robots
- Food Prep – robots can allow for more efficient and quick preparation of a variety of meals with a single command
- Military – for the use of unmanned drones for the battlefield to check if there is any danger before deploying soldiers

## 5. 3 Challenges for a wheeled autonomous robot:

- Identifying and crossing an object in front of them
- Battery issues
- Safety issues – might get stolen

Links to read more:

<https://builtin.com/artificial-intelligence>

<https://www.psychologytoday.com/us/blog/the-future-brain/201901/what-caused-the-ai-renaissance>

<https://onlinemasters.ohio.edu/blog/5-industries-utilizing-robotics/>