

technocamps

Inspiring | Creative | Fun
Ysbrydoledig | Creadigol | Hwyl



www.technocamps.com



Open CV

OpenCV (Open Source Computer Vision Library) is a free to use computer vision and machine learning software library. OpenCV was built to provide real-time image processing. You can code using a variety of languages, primarily C++, but now APIs are available for full interfaces in Python, Java and MATLAB. For more information about Python or Java, see our Greenfoot or Python workshop documentation.

The OpenCV library has more than 2500 algorithms. These algorithms can be used to perform a variety of functions which include basic features like removing red eyes from images taken from a camera with a flash, to detecting and recognising faces, objects or scenery!

A basic knowledge of programming prior to the workshop is advised.



Skills

- Problem Solving
- Communication
- Improving Own Learning and Performance
- Working with Others
- ICT
- Numeracy
- Creativity

Key Learning Outcomes

- Intermediate /Advanced understanding of programming
- New knowledge of computer vision and its uses
- New/improved skills in C++
- Knowledge of Open CV library

Workshop Outline

- Introduction to computer vision.
- Introduction to OpenCV
- Implementation of C++
- Graphics techniques and coding

Why Technocamps?

Technocamps is an exciting project that provides free workshops to young people on programming, robotics, game design, app development and much more... It is about getting young people (11-19) in Wales excited about Computer Science and STEM and challenging them to think about the world around them in a different way.