

# GPU computing with Python

*Accelerating Python with GPU's and Multi-core devices*

## Syllabus

*GPU computing with Python* is aimed at intermediate and advanced Python developers who need to accelerate parallelisable algorithms. Some of the core topics covered are as follows:

1. Understanding how OpenCL and CUDA map work to compute devices.
2. Managing memory on the compute device.
3. Writing compute kernels to process data in Numpy arrays.
4. Computing Fourier transforms over multi- dimensional arrays.
5. Optimisation tips for getting the best out of kernels.

The day includes interactive exercises that are designed to solidify knowledge.

## Experience level

Advanced users only: must be proficient in Python and comfortable with learning a small amount of C.

## Course delivery and logistics

All of our workshops are taught by example from instructors that really care about you and your staff, with close attention paid to maximising educational value. This workshop is designed to be taught over 6 hours plus breaks, and usually this requires the investment of a full day. With regard to logistics we have a number of options available including:

- On premises, where we come and teach the course using your facilities (Perth metropolitan area or by travel arrangement).
- At our nominated training facilities (Perth metropolitan area only).

- Online via video conferencing (available worldwide).

To keep the educational quality high we have a strict person limit of up to 15 people per class. We can repeat a workshop for as many times as necessary to cover your training requirements. In addition to this workshop we can build our other course offerings to create a "boot camp" spanning several days.

## Ready to take the conversation further?

So great to have you on board! When you are ready to have a further conversation we can help sort out the logistics and organise a quote.

Contact us today!