

ALGORITHMS PHILOSOPHY



C4dynamics

Many engineers develop their algorithms detached from context.

If you are engaged with physical systems, follow this..



A POINT

It may be

Car Plane Bird

• • •

A point on a path



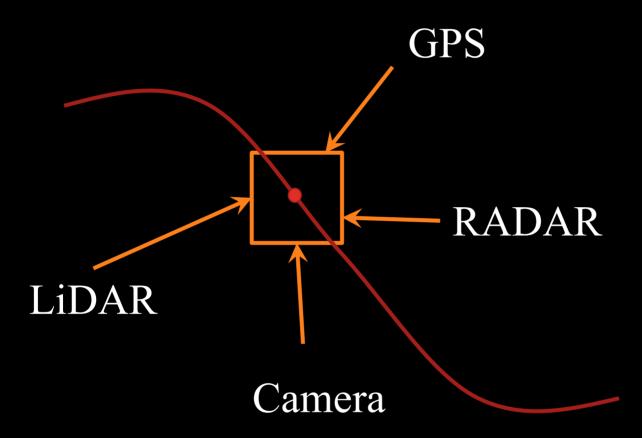
A POINT

Properties
Position
Velocity
Acceleration

A point on a path

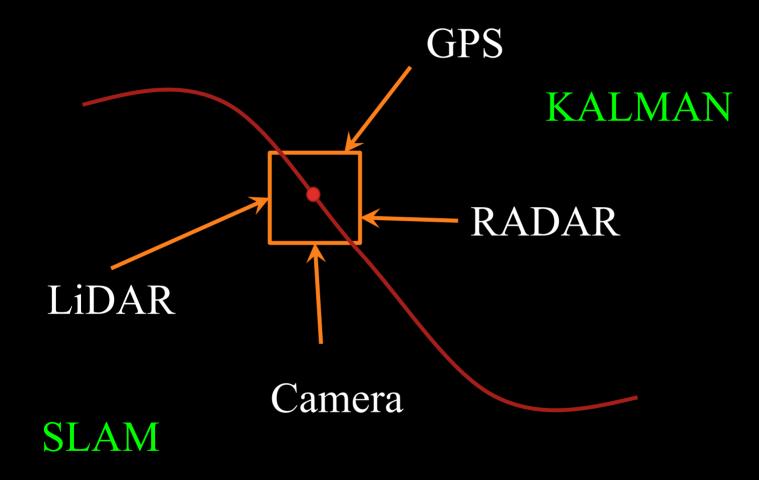


UPDATE FROM SENSORS



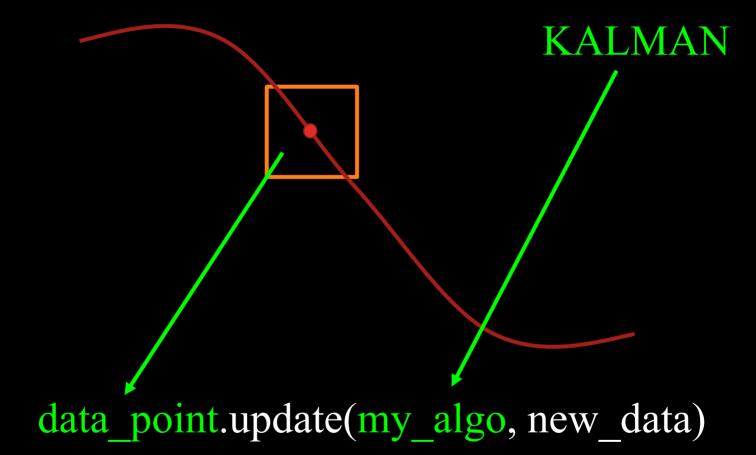


DIFFERENT ALGORITHMS



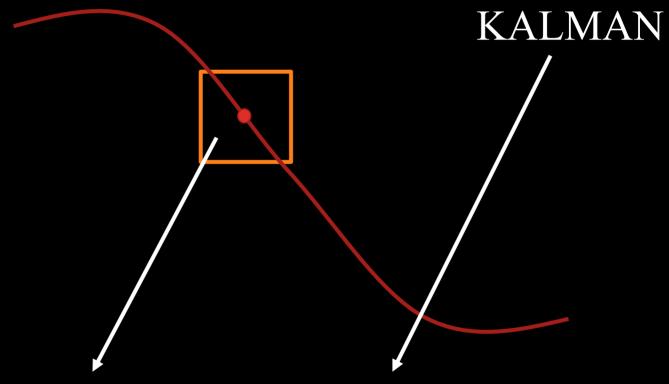


POINT'S POINT OF VIEW





POINT'S POINT OF VIEW



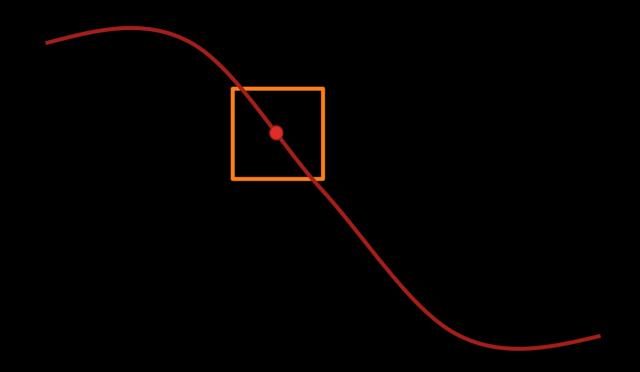
data point.update(my algo, new data)

Bound together!



So..

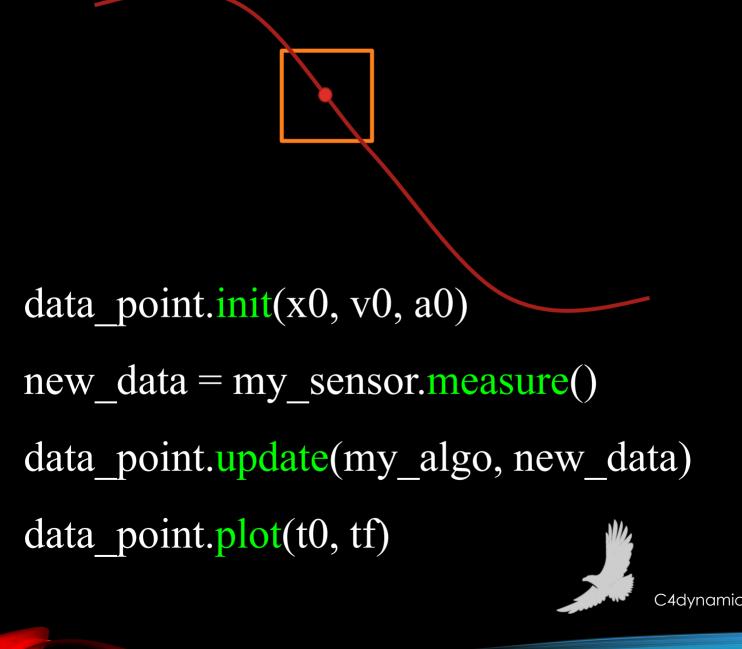
DO EVERYTHING FROM ONE PLACE!





So..

DO EVERYTHING FROM ONE PLACE



Whatever your algorithm is, always look from the object's point of view.

This is Algorithm Context!

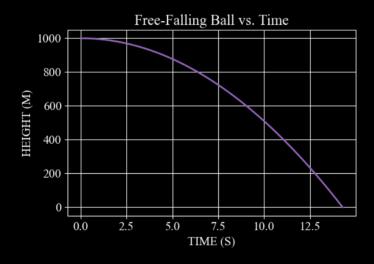


Want to work with cool algorithm framework?

Download <u>now</u> C4dynamics and run freefall.py

Follow the instructions there:

https://github.com/C4dynamics/C4dynamics/blob/main/examples/freefall.py

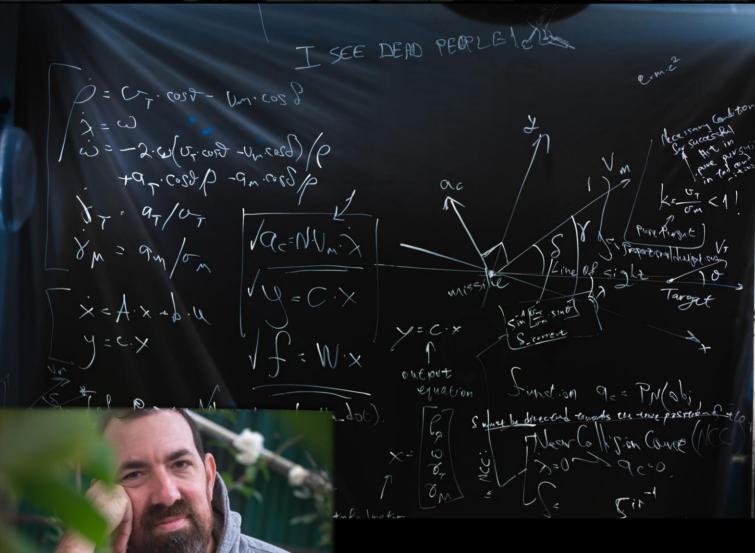


C4dynamics

A cutting-edge, high-standard algorithms development framework

C4dynamics





Gavriel Weinberger



C4dynamics