## HDF5 Ecosystem

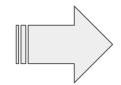
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## Why there is an Ecosystem



## #include "hdf5.h"





Turtles all the way down

## Approaches to HDF5 Language Bindings

	Bottom-Up	Through-the-Middle	Top-Down
Idiomaticity	C by other means	IL-dependent	No-API HDF5
Control	Full	IL-dependent	Reduced (sometimes)
Learning Curve	Steep	Second language (IL)	Shallow
Portability(*)	Low	High (potentially)	Mixed
Performance	High	High (potentially)	Mixed
Parallelism	C-like	IL-dependent	Non-trivial
Abstraction	Low	High	Intuitive
Examples	FFI (JNI, Plnvoke)	HDFql	h5py, rhdf5, H5CPP

IL - Intermediate Language(\*) Portability between languages