Well, so are we (see also Filippone et al. [2017])

Facts:
- Different computer architectures are best exploited by different formats;
- Different formats are suited to different operations (and we need them all);

Requirements (put your library developer's hat on):
- We want to be able to change in response to machine changes (might be done at compile time);
- We want to be able to change in response to use patterns (need to change at run time)
- We want to switch among formats, some of them unkonwn at compile time;

Essentially, we want objects to switch between different types at runtime