

## Design considerations:

- Which external libraries to use, if any?
- How do we do automatic differentiation of classical functions?  
(tensorflow, autograd, pytorch, ...)
- How to do optimization?  
(leverage existing libraries, roll our own optimizers,  
be agnostic/multi-library, ...)
- Structure of Gates/Transformations  
(which gates?, how to make extensible to new gates?  
qubit vs. CV model?)
- How much do we outsource to plugins?