## The OPS Wizard

- (dev) Yvette:~/tmp/wiz-demo dwhs\$ openpathsampling wizard
- ♣ Hi! I'm the OpenPathSampling Wizard.
- ₫ Today I'll help you set up a 2-state TPS simulation.
- Let's make an engine. An engine describes how you'll do the actual dynamics. Most of the details are given in files that depend on the specific type of engine.
- What will you use for the underlying engine?
  - 1. OpenMM
  - 2. Load existing from OPS file
- Please select an option: foo
- Sorry, 'foo' is not a valid option.
- What will you use for the underlying engine?
  - 1. OpenMM
  - 2. Load existing from OPS file
- Please select an option: 1
- Where is a PDB file describing your system? ad.pdb

## YAML setup

```
engines:
                                       states:
  - type: openmm
                                         - name: alpha_R
    name: engine
                                           type: intersection
    system: system.xml
                                           subvolumes:
    integrator: integrator.xml
                                              - type: cv-volume
    topology: ad.pdb
                                               cv: psi
    n_steps_per_frame: 10
                                                lambda_min: -100 * np.pi / 180
    n_frames_max: 10000
                                                lambda_max: 0.0
                                              - type: cv-volume
CVS:
                                                cv: phi
  - name: phi
                                                lambda_min: -np.pi
    type: mdtraj
                                                lambda_max: 0
    topology: ad.pdb
                                         - name: C_7eq
    period_min: -np.pi
                                           type: intersection
    period_max: np.pi
                                           subvolumes:
    func: compute_dihedrals
                                              - type: cv-volume
    kwargs:
                                               cv: psi
      atom_indices: [[4, 6, 8, 14]]
                                                lambda_min: 100 * np.pi / 180
  - name: psi
                                                lambda_max: 200 * np.pi / 180
    type: mdtraj
                                              - type: cv-volume
    topology: ad.pdb
                                                cv: phi
    period_min: -np.pi
                                               lambda_min: -np.pi
    period_max: np.pi
                                                lambda_max: 0
    func: compute_dihedrals
    kwargs:
      atom_indices: [[6, 8, 14, 16]]
```