

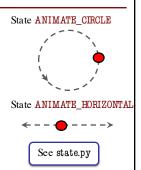
State: Changing What the Loop Does

- State: Current loop activity
 - Playing game vs. pausing
 - Ball countdown vs. serve
- Add an attribute state
- Method update() checks state
- Executes correct helper
- · How do we store state?
 - State is an enumeration; one of several fixed values
 - Implemented as an int
 - Global constants are values

Increment when not pressed

(e.g. in loop method update())

• Check time when next pressed



See touch.py

Designing States

- Each state has its own set of invariants.
 - Drawing? Then touch and last are not None
 - Erasing? Then touch is None, but last is not
- Need rules for when we switch states
 - Could just be "check which invariants are true"
 - Or could be a *triggering event* (e.g. key press)
- · Need to make clear in class specification
 - What are the invariants for each state?
 - What are the rules to switch to a new state?

Triggers: Checking Click Types Double click = 2 fast clicks Count number of fast clicks Add an attribute clicks Reset to 0 if not fast enough Time click speed Add an attribute time Set to 0 when mouse released

