Game Programming Patterns - Sequencing - Update Method
"Simulate a collection of independent objects by telling each to
process one frame of behavior at a time."

*we want a skeleton to move one step each frame in a patrol. Is so we rely on the outer game loop to trigger an update. Now we

held to track direction was variable.

"Anytime "mushed" accurately describe your architecture, you lisely have a problem"

So... each entity in ten game should encapsulate its own behavior. Use an abstract update (1 method & the game loop has a colliction of objs that can be updated

· Helpful to use if you need to up date benavior or animation every frame for a collection of objects, the objs. ane mostly independent & need to be run simultaneously (simulated over time

Typically splitting behavior overframes make code Teomplex. If you have a lang that supports lightneight concurrency (genevators, corontines, fibers) of the obj. Code can pawe, you

may beable to be more imperative

· You mud to stone state so the obj. Can resume (State pattern)

objs. anent truly concurrent, so order matters (or you could use double buffer pattern), but this is helpful for networked game, and if two entities have a conflict.

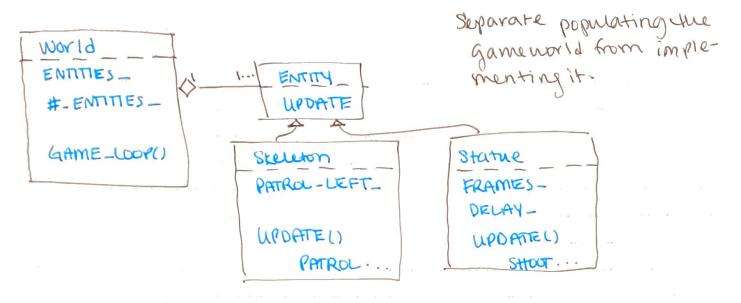
obe careful modifying the object list while updating, so you can cache the collection at the beginning of the loop & only update

what was present at the beginning of the loop

of the cane when removing you could update backwards so you only remove objs that have already been updated or mark "dead" objs exemove after iterating (+ skip any-thing dead")

"Favor object composition over class inheritance"

"It's now much easier to add new entities into the game world because each one brings along mengleting it needs to take care of itself."



* The Update () method may need to consider variable timesteps. & take in the elapsed time.

· unat class dues the update () method like on?

SEntity: makes it of fault to reuse behaviors

(> Component: can decouple parts of a single entity (Rendering, physics, etc.) Greligate. (State or Type Ob) patterns can do thus) share behavior

across abunch of entitie, of the same "kind"

You may have update () on main class but it forwards

to a deligated object

ottouto handle dormant objects?

4 single collection ulinactive objs: waste time, coucycles & possibly

blowup your cache

this can be helpful

only active objs: extra mem., herpfulunenspred istighter than memory. The secon istighter than memory. the second Collection Could just be inactive us all obje to mitigate mem-usage.

- keep collections msync

LIPDATE