Game Programming Patterns_Revisited_Singleton## *xingleton usually does more harm-than good & is overused "Ensure a class has one instance, and provide aglobal point of access to it. * sometimes actors can't perform if >1 instance, exifit ixts wan ext. sy stem that maintains global state Oprivate ctor + instance- member variable @ public static instance() method to lazy instantiate + neturn instance Pros: never initialized if not needed eintialized @ nentime e can Cons: it's global (makesit difficult to newson abt code) (encourages coupling) Carent concurrency triendly "... Singleton is global state - its just encapsulated in accass pure tunctions: functions that don't access or modify global state *ex. one logger, but what if we want to write to different logs? hisingleton you'll now held to modify the class e every line of code * LX. for games, laty loading takes Control away from dev, it helps to control when objects are initialited. scan chouse to have a static class instead wsimpler syntax -> do you herd Jen Class? "Many of the singleton classes I see in games are "managers" those nebulous classes that exist just to babysit other objects. spoorly designed singletons are often "helpers" to add functionality onto another class, but you can move that code to the obj. it ely. > single instance wo global access San asser() is a contract in your code that it broken should be tixed as a p, before it results in a bug.

-> convenient access

Convenient access Contid

passition

passition

part frombouse class which but shallow inheritance

in sometimy already global

in a service locator

Dependency Injection: dependencies are pushed in to the code

that muds it through params

Cross-cutting Concern: usings libe logging that appear scattered in codebare
law of Demeter: aka principle of least knowledge

Clack unit should only have limited knowledge about other

Units: only units "closely" related to the current unit (2) Each unit should only talk to its friends; don't talk to strangen (3) Only talk to your immediagle friends

*look into Subclasi Sandbox & Service Cocator patterns