## Game Programming Patterns - Revisited - Flyweight ## \*ex. nendering agiant, lush forest likely many of the details will be similar blu tnees opulous common details into its own class (intrinsic state) instanced rendering allow you to tell flee 4pu to hender one the model for many instances of the true (extrinsic state) "Flyweight comes into play wen you have objs that need to ke more lightweight, generally because you have too many of them. \* Flynnight is about efficiency + this pattern becomes interesting when thereisn't awell defined identity for the shared soject. "Sharing objects to save memory should be an optimization that doesn't Faffict ten visible behavior of tenapp Because of tenis, Tryweight objs anealmost always immutable + But since the Terrain Class, once instantiated, only contains intrinsic State information lugnid CXIEYI can be full of pointers to instantiat ions of tenterrain tile types so the obj can be refinenced directly. "if you find yourself creating an enum and doing lots of suite her' onit, consider les pattern instead \* the golden rule of optimization is to profile first & can create the instancer on demand, see factory method \* need to keep track of eneated instances, see object pool & when wing the State pattern you may be able to never fere same state instance in 00 state machines at the same time wo problem



