

## PUMPKIN SEED FRAMEWORK

UAT GSIP

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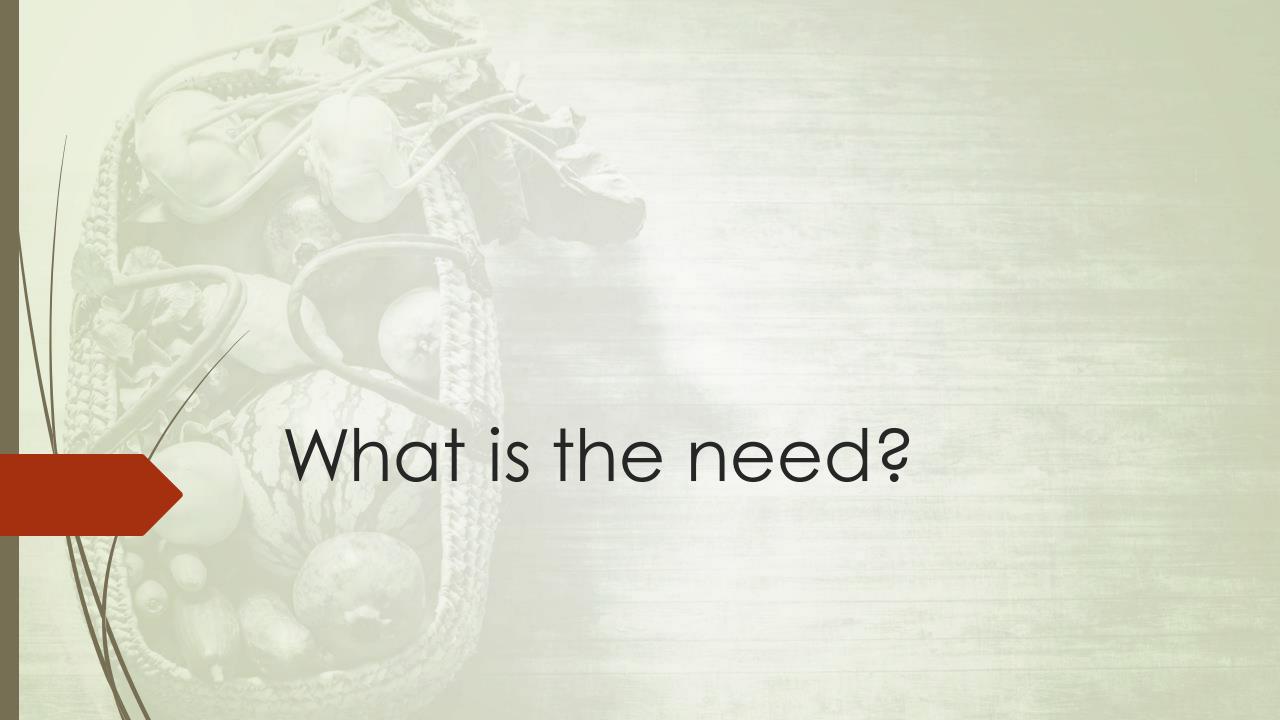
What is it?

Turn-Based Game Framework

Cross-Platform

Genre-Agnostic

Highly Modular



### Few Cross-Platform

Nothing Genre-Agnostic



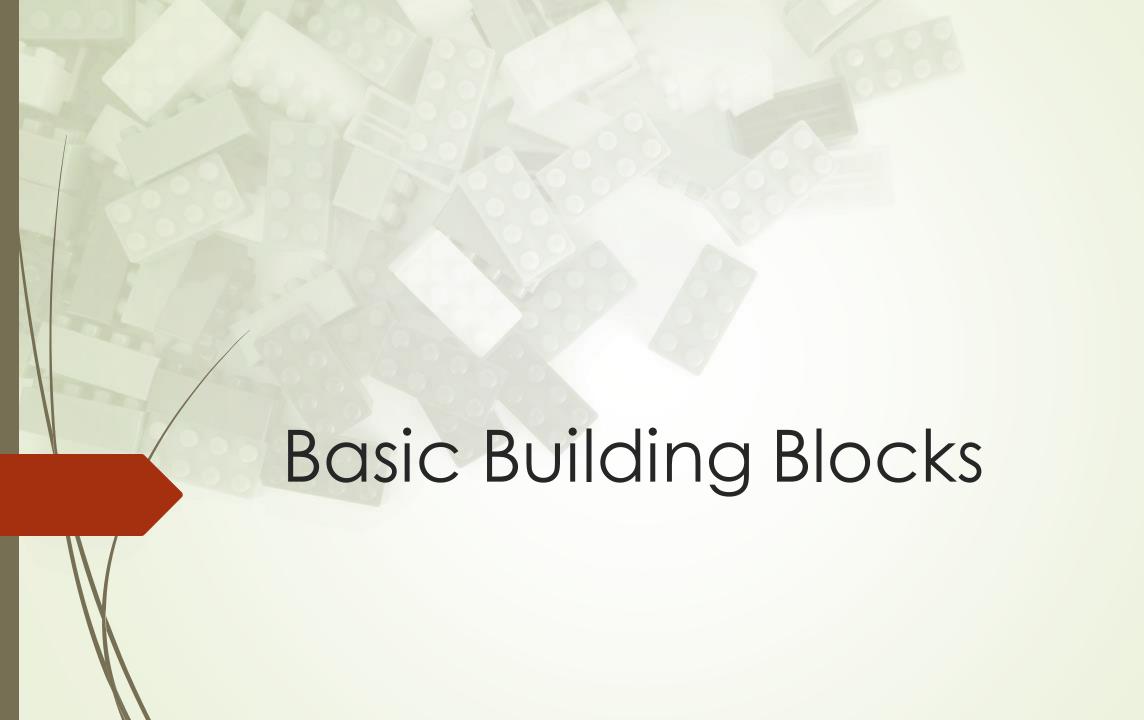
.NET Core

Multi-Threaded

Software Patterns

#### Modular Construction

```
public Framework(
   TGameState initialGameState,
   IReadOnlyDictionary<uint, IActorController> characterControllers,
   ITurnController<TTurnPhase> turnController,
   IStandardActionGenerator standardActionGenerator,
   IWinningPartyCalculator winningPartyCalculator,
   IEntityChangeCalculator entityChangeCalculator,
   IInitiativeQueue initiativeQueue,
   IEventQueue eventQueue)
```



#### Entities

```
public interface IEntity : ICloneable
    /// <summary>
    /// Unique id used to track this entity.
    /// </summary>
    21 usages 2 implementations
    vint Id { get; }
```

#### Actors

```
public interface IActor : IEntity, ICloneable
   /// Party Id of the party which this Actor belongs to.
   uint PartyId { get; }
   /// Should this actor be considered during turns.
   bool IsActive { get; }
   /// Get this Actor's initiative step.
   /// <returns>Initiative step of the Actor.</returns>
   float GetInitiative();
   /// Get all Actions which this Actor can perform on their turn.
   /// <param name="gameState">Current active gameState.</param>
   /// <returns>Collection of all available Actions for this Actor.</returns>
   IReadOnlyCollection<IAction> GetAllActions<TTurnPhase>(IGameState<TTurnPhase> gameState) where TTurnP
```

#### Initiative

```
uint InitiativeThreshold { get; }
IEnumerable<(uint actorId, float initiative)> GetCurrentQueue();
IActor GetNext();
bool Add(IActor actor, float initialValue);
void Update(uint actorId, uint changeValue);
bool Remove(uint actorId);
```





#### Checkers

**Entities** 

Pieces

**Actors** 

**Players** 



#### **Entities**

Items Equipment

#### **Actors**

Players Monsters/Enemies Status Effects

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