

UECasts.com - UE4 Blueprint Cheat Sheet

Blueprint Types	Description				
Level Blueprint	Each level has its own Level Blueprint which can reference and manipulate Actors within the level, control cinematics, manage level streaming, checkpoints and other level-related tasks. The Level Blueprint can also interact with Blueprint Classes placed in the level, such as reading/setting any variables or triggering custom events they might contain.				
Blueprint Class	Blueprint Classes are ideal for making interactive assets such as doors, switches, collectible items, and destructible scenery.				
Common Blueprint Classes	Blueprint Class Description	Data Pin	Color	Description	
Actor	An Actor is an object that can be placed or spawned in the world.	Bool		Boolean values of True or False	
Pawn	A Pawn is an Actor that can be controlled and receive input from a Controller.	Integer		Integer number (whole numbers) ex: 5, 7, 10	
Character	A Character is a Pawn that includes the ability to walk, run, jump, and more.	Float		Floating arithmetic number ex: 3.14	
Player Controller	A Player Controller is an Actor responsible for controlling a Pawn used by the player.	String		String of text and characters ex: "My String"	
Game Mode Base	A Game Mode defines the game being played, its rules, scoring, and other faces of the game type.	Transform		Location, rotation and scale transformation	
Actor Component	An ActorComponent is a reusable component that can be added to any actor.	Vector		Vector of {X, Y, Z}	
Scene Component	Component that has a scene transform (location, rotation, scale) and can be attached to other scene components.	Linear Color		RGBA value of a color	
		Rotator		Roll (X), Pitch (Y), Yaw (Z)	
Common Blueprint Events	Event Description				
Event ActorBeginOverlap	Called when a collision/overlap between two actors with Generate Overlap Events enabled is detected.				
Event ActorEndOverlap	Called when two actors previously overlapped stopped overlapping.				
Event BeginPlay	Called for all Actors when the game/level is started. Any Actors spawned after game start have this called immediately.				
Event EndPlay	Called for all Actors when the game/level is started. Any Actors spawned after game				
Event Tick	Called on every frame of gameplay. (Can be computationally expensive)				
Event Destroyed	Called when the Actor is destroyed. Note: Deprecated, use Event EndPlay.				
Event Hit	Called when collision settings of one or more Actors involved have Simulation Generates Hit Events enabled.				
Event AnyDamage	Called when general damage is to be dealt. Ex: Enviornmental damage.				
Event PointDamage	Meant to represent damage dealt by projectiles, hit scan weapons, or even melee weaponry.				
Event RadialDamage	Called when parent Actor receives Radial Damage. Ex: Explosion damage or indirect damage.				
Event ActorBeginCursorOver	Called when using the mouse interface and cursor is moved over an Actor.				
Event ActorEndCursorOver	Called when using the mouse interface and cursor is moved off an Actor.				
Node Creation HotKeys	Keys				
Branch Node	B + LMB				
Comment Box Node	C				
Delay Node	D + LMB				
Sequence Node	S + LMB				
Gate Node	G + LMB				
For Each Loop Node	F + LMB				
Multi-gate Node	M + LMB				
Do N Times Node	N + LMB				
Do Once Node	O + LMB				
BeginPlay Event	P + LMB				
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