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## Prefabs

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It is convenient to build a `GameObject` in the scene by adding components and setting their properties to the appropriate values. This can create problems, however, when you have an object like an NPC, prop or piece of scenery that is reused in the scene several times. Simply copying the object will certainly produce duplicates but they will all be independently editable. Generally, you want all instances of a particular object to have the same properties, so when you edit one object in the scene, you would prefer not to have to make the same edit repeatedly to all the copies.

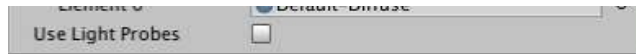
Fortunately, Unity has a **Prefab** asset type that allows you to store a `GameObject` object complete with components and properties. The prefab acts as a template from which you can create new object instances in the scene. Any edits made to a prefab asset are immediately reflected in all instances produced from it but you can also *override* components and settings for each instance individually.

**Note:** When you drag an asset file (eg, a Mesh) into the scene, it will create a new object instance and all such instances will change when the original asset is changed. However, although its behaviour is superficially similar, the asset is *not* a prefab, so you won't be able to add components to it or make use of the other prefab features described below.

## Using Prefabs

You can create a prefab by selecting **Asset > Create Prefab** and then dragging an object from the scene onto the "empty" prefab asset that appears. If you then drag a different `GameObject` onto the prefab you will be asked if you want to replace your current `gameobject` with the new one. Simply dragging the prefab asset from the project view to the scene view will then create instances of the prefab. Objects created as prefab instances will be shown in the hierarchy view in blue text. (Normal objects are shown in black text.)

As mentioned above changes to the prefab asset itself will be reflected in all instances but you can also modify individual instances separately. This is useful, say, when you want to create several similar NPCs but introduce variations to make them more realistic. To make it clear when a property has been overridden, it is shown in the inspector with its name label in boldface. (When a completely new component is added to a prefab instance, *all* of its properties will be shown in boldface.)



Mesh Renderer on a prefab instance with “Cast Shadows” overridden

You can also create instances of prefabs at runtime from your scripts. See the manual page about [Instantiating Prefabs](#) for further details.

## Editing a Prefab from its Instances

The inspector for a prefab instance has three buttons not present for a normal object: *Select*, *Revert* and *Apply*.

The *Select* button selects the prefab asset from which the instance was generated. This allows you to edit the main prefab and thereby change all its instances. However, you can also save overridden values from an instance back to the originating prefab using the *Apply* button (modified Transform position values are excluded for obvious reasons). This effectively lets you edit all instances (except those which override the value changed) via any single instance and is a very quick and convenient way to make global changes. If you experiment with overriding properties but then decide you preferred the default values, you can use the *Revert* button to realign the instance with its prefab.

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