Welcome to the API Reference for the Lightning game engine.

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1. General Overview  
1.1. Lightning API Style**The Lightning API is based on the concept of windows, and, optionally, scenes.  
  
Each Window is a rendering context that allows you to use Managers.   
Managers are the various parts of Lightning that allow specific rendering operations, such as rendering lighting or input, to occur. It is generally required to pass the current Window being used to any rendering APIs that you call.

A scene is simply an “area” of a game and is an optional construct – the Scene Manager can be turned off with the **DontUseSceneManager** GlobalSetting. It provides ready-made basic handling of startup and shutdown as well as some very basic event handling.

Any renderable object is expected to inherit from the Renderable class and override its Draw method – this provides the object with a few basic properties, such as position and size, that can be manipulated in order to make drawing the object easier for the programmer. UI elements are extended by inheriting from the Gadget class.

**1.2. Namespaces**

**LightningGL**Provides all of the primary rendering APIs.  
**LightningPackager**Provides all of the packaging APIs.  
**NuCore.SDL2**Provides access to unmanaged SDL2, SDL2\_image, SDL2\_mixer, SDL2\_ttf, and my fork of SDL2\_gfx APIs and functions.  
**NuCore.Utilities**Provides utility APIs.

**1.3. Standard .NET types used**

**System.Drawing.Color**Defines an ARGB-formatted color.  
**Documentation**: <https://docs.microsoft.com/en-us/dotnet/api/system.drawing.color?view=net-6.0>

**System,Numerics.Vector2**Defines a two-dimensional vector.  
**Documentation:** <https://docs.microsoft.com/en-us/dotnet/api/system.numerics.vector2?view=net-6.0>