orxVIEWPORT structure

Viewport module. Allows the creation and handling of viewports. Viewports are structures associated to cameras and used for rendering.

Summary

```
[ViewportTemplate]
AutoResize       = <bool>
BackgroundColor  = <vector> | <WebColor>
BackgroundAlpha  = <float>
BlendMode    = alpha|multiply|add|premul|none
Camera           = CameraTemplate
FixedRatio       = <float>
KeepInCache      = <bool>
NoDebug      = <bool>
Position         = center left|right top|bottom
Position         = <vector>
Size             = <vector>
ShaderList       = ShaderTemplate1 # ... # ShaderTemplateN
TextureList      = path/to/TextureFile # ... #path/to/TextureFileN
UseRelativeSize  = <bool>
```

Details

Here's a list of the available properties for an `orxVIEWPORT` structure:

- `AutoResize`: [Bool]; NB: Default value is true if no fixed size is given, false otherwise. It's only applicable to viewports with linked textures. If true, viewport's dimension, position and linked textures will be resized/updated upon video mode changes.
- `BackgroundColor`: Values are RGB from 0 to 255. Official HTML web color names are also supported. If not set, the viewport won't erase any part of other overlapping viewports that were previously rendered this frame.
- `BackgroundAlpha`: If BackgroundColor is set, this value will be used as alpha; Defaults to 1.0;
- `BlendMode`: Default value is none, used only when active shaders are attached.
- `Camera`: Template name of the camera that will be linked to this viewport. Each camera template will correspond to a unique camera at runtime. This means that if you use more than one viewport linked to the same camera, they will render the same content as seen by this camera.
- `FixedRatio` = [Float]; NB: Only used when no camera is linked, otherwise the aspect ratio of the camera will act as ratio for the viewport. Defaults to none, ie. no fixed ratio is enforced.
- `KeepInCache` = [Bool]; NB: If true, the associated textures will always stay in cache. Defaults to false.
- `NoDebug`: When set, no debug rendering will happen in this viewport. Defaults to false.
- `Position`: Defines where the viewport will be placed in the main display. It should be a combination of two attributes. Literal position (example: top left) or position in pixels, from the

top left corner. Defaults to top left.

- `Size`: [Vector]; NB: Size in pixels;
- `Position`: Defines an absolute position for the viewport in the main display, in pixel coordinates. This value is only used if none is provided for `RelativePosition`.
- `ShaderList`: Defines a list of shaders that will be executed every time this viewport is rendered. Shader will be activated immediately. Up to 4 shaders can be specified. By default, no shader is used.
- `Size`: Defines the absolute viewport size, in pixels. This value is only used if none is provided for `RelativeSize`.
- `TextureList`: Textures used as destination when rendering that viewport; If the specified name doesn't refer to an existing texture, a texture of that name will be automatically created, matching the viewport's dimensions; Defaults to screen when not defined.
- `UseRelativeSize`: If true, the viewport size will be interpreted as relative to the underlying texture, using the [0.0 - 1.0] range on both x/y axes. Defaults to false.

Latest config settings for the Development Version

We endeavor to keep the config properties on this page up to date as often as possible. For up to the minute config information for the latest version of Orx, check the most recent published at:

CreationTemplate.ini and

SettingsTemplate.ini

Additionally these files can be found under your orx source tree in the `orx/code/bin` folder.

From:
https://wiki.orx-project.org/ - **Orx Learning**

Permanent link:
https://wiki.orx-project.org/en/orx/config/settings_structure/orxviewport?rev=1684846145

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