## A simple and easy-to-use library to enjoy videogames programming

[raylib Discord server][github.com/raysan5/raylib]

raylib

v3.0 quick reference card (download as PDF)

```
module: core
```

```
// Window-related functions
void InitWindow(int width, int height, const char *title);
bool WindowShouldClose(void);
void CloseWindow(void);
bool IsWindowReady(void);
                                                                                                    //\ {\it Initialize\ window\ and\ OpenGL\ context}
                                                                                                    // Check if KEY_ESCAPE pressed or Close icon pressed
                                                                                                    // Close window and unload OpenGL context
// Check if window has been initialized successfully
// Check if window has been minimized (or lost focus)
bool IsWindowMinimized(void);
bool IsWindowResized(void);
                                                                                                    // Check if window has been resized
bool IsWindowHidden(void);
void ToggleFullscreen(void);
                                                                                                    // Check if window is currently hidden
// Toggle fullscreen mode (only PLATFORM_DESKTOP)
void UnhideWindow(void);
                                                                                                    // Show the window
void HideWindow(void);
                                                                                                    // Hide the window
void SetWindowIcon(Image image);
                                                                                                    // Set icon for window (only PLATFORM_DESKTOP)
void SetWindowTitle(const char *title);
void SetWindowPosition(int x, int y);
                                                                                                    // Set title for window (only PLATFORM_DESKTOP)
// Set window position on screen (only PLATFORM_DESKTOP)
// Set monitor for the current window (fullscreen mode)
void SetWindowMonitor(int monitor);
void SetWindowMinSize(int width, int height);
                                                                                                    // Set window minimum dimensions (for FLAG_WINDOW_RESIZABLE)
void SetWindowSize(int width, int height);
                                                                                                    // Set window dimensions
void *GetWindowHandle(void);
int GetScreenWidth(void);
                                                                                                    // Get native window handle
// Get current screen width
int GetScreenHeight(void);
                                                                                                    // Get current screen height
int GetMonitorCount(void);
                                                                                                    // Get number of connected monitors
int GetMonitorWidth(int monitor);
int GetMonitorHeight(int monitor);
int GetMonitorPhysicalWidth(int monitor);
int GetMonitorPhysicalHeight(int monitor);
                                                                                                    // Get primary monitor width
                                                                                                    // Get primary monitor height
// Get primary monitor physical width in millimetres
// Get primary monitor physical height in millimetres
// Get window position XY on monitor
Vector2 GetWindowPosition(void);
const char *GetMonitorName(int monitor);
const char *GetClipboardText(void);
void SetClipboardText(const char *text);
                                                                                                    // Get the human-readable, UTF-8 encoded name of the primary monitor \,
                                                                                                   // Get clipboard text content
// Set clipboard text content
// Cursor-related functions
void ShowCursor(void);
void HideCursor(void);
bool IsCursorHidden(void);
                                                                                                    // Shows cursor
                                                                                                    // Hides cursor
// Check if cursor is not visible
                                                                                                    // Enables cursor (unlock cursor)
void EnableCursor(void);
void DisableCursor(void);
                                                                                                    // Disables cursor (lock cursor)
// Drawing-related functions
void ClearBackground(Color color);
                                                                                                   // Set background color (framebuffer clear color)
void BeginDrawing(void);
                                                                                                    // Setup canvas (framebuffer) to start drawing
void EndDrawing(void);
                                                                                                    // End canvas drawing and swap buffers (double buffering)
void BeginMode2D(Camera2D camera);
void EndMode2D(void);
                                                                                                    // Initialize 2D mode with custom camera (2D)
// Ends 2D mode with custom camera
// Initializes 3D mode with custom camera (3D)
void BeginMode3D(Camera3D camera);
void EndMode3D(void);
                                                                                                    // Ends 3D mode and returns to default 2D orthographic mode
void BeginTextureMode(RenderTexture2D target);
                                                                                                    // Initializes render texture for drawing
void EndTextureMode(void);
void BeginScissorMode(int x, int y, int width, int height);
                                                                                                    // Ends drawing to render texture
                                                                                                    // Begin scissor mode (define screen area for following drawing)
void EndScissorMode(void);
// Screen-space-related functions
Ray GetMouseRay(Vector2 mousePosition, Camera camera);
Matrix GetCameraMatrix(Camera camera);
                                                                                                   // Returns a ray trace from mouse position
// Returns camera transform matrix (view matrix)
Matrix GetCameraMatrix2D(Camera2D camera);
                                                                                                    // Returns camera 2d transform matrix
Vector2 GetWorldToScreen(Vector3 position, Camera camera);
                                                                                                    // Returns the screen space position for a 3d world space position
                                                                                                   int width, int height); // Returns size position for a 3d world space position
); // Returns the screen space position for a 2d camera world space position
); // Returns the world space position for a 2d camera screen space position
Vector2 GetWorldToScreenEx(Vector3 position, Camera camera,
Vector2 GetWorldToScreen2D(Vector2 position, Camera2D camera
Vector2 GetScreenToWorld2D(Vector2 position, Camera2D camera
 // Timing-related functions
void SetTargetFPS(int fps);
                                                                                                    // Set target FPS (maximum)
int GetFPS(void);
                                                                                                    // Returns current FPS
// Returns time in seconds for last frame drawn
float GetFrameTime(void);
                                                                                                    // Returns elapsed time in seconds since InitWindow()
double GetTime(void);
// Color-related functions
int ColorToInt(Color color);
Vector4 ColorNormalize(Color color);
                                                                                                   // Returns hexadecimal value for a Color
// Returns color normalized as float [0..1]
Color ColorFromNormalized(Vector4 normalized);
                                                                                                    // Returns color from normalized values [0..1]
Vector3 ColorToHSV(Color color);
                                                                                                    // Returns HSV values for a Color
Color ColorFromHSV(Vector3 hsv);
Color GetColor(int hexValue);
                                                                                                    // Returns a Color from HSV values
// Returns a Color struct from hexadecimal value
Color Fade (Color color, float alpha);
                                                                                                    // Color fade-in or fade-out, alpha goes from 0.0f to 1.0f \,
void SetConfigFlags(unsigned int flags);
void SetTraceLogLevel(int logType);
void SetTraceLogExit(int logType);
                                                                                                   // Setup window configuration flags (view FLAGS) // Set the current threshold (minimum) log level
                                                                                                    // Set the exit threshold (minimum) log level
void SetTraceLogCallback(TraceLogCallback callback);
                                                                                                    // Set a trace log callback to enable custom logging
void TraceLog(int logType, const char *text, ...);
void TakeScreenshot(const char *fileName);
int GetRandomValue(int min, int max);
                                                                                                    // Show trace log messages (LOG_DEBUG, LOG_INFO, LOG_WARNING, LOG_ERROR)
                                                                                                   // Takes a screenshot of current screen (saved a .png)
// Returns a random value between min and max (both included)
 // Files management functions
bool FileExists(const char *fileName);
bool IsFileExtension(const char *fileName, const char *ext);
bool DirectoryExists(const char *dirPath);
                                                                                                   // Check if file exists
// Check file extension
// Check if a directory path exists
const char *GetExtension(const char *fileName);
const char *GetFileName(const char *filePath);
const char *GetFileName(const char *filePath);
const char *GetFileNameWithoutExt(const char *filePath);
const char *GetDirectoryPath(const char *filePath);
const char *GetPrevDirectoryPath(const char *dirPath);
const char *GetPrevDirectoryPath(const char *dirPath);
                                                                                                    // Get pointer to extension for a filename string
                                                                                                    // Get pointer to filename for a path string
                                                                                                   // Get filename string without extension (uses static string)
// Get full path for a given fileName with path (uses static string)
// Get previous directory path for a given path (uses static string)
// Get current working directory (uses static string)
               *GetWorkingDirectory(void)
                                                                                                    // Get filenames in a directory path (memory should be freed)
char **GetDirectoryFiles(const char *dirPath, int *count);
void ClearDirectoryFiles(void);
                                                                                                    // Clear directory files paths buffers (free memory)
bool ChangeDirectory(const char *dir);
                                                                                                    // Change working directory, returns true if success // Check if a file has been dropped into window
bool IsFileDropped(void);
char **GetDroppedFiles(int *count);
                                                                                                    // Get dropped files names (memory should be freed)
void ClearDroppedFiles(void);
                                                                                                    // Clear dropped files paths buffer (free memory)
long GetFileModTime(const char *fileName);
                                                                                                   // Get file modification time (last write time)
unsigned char *CompressData(unsigned char *data, int dataLength, int *compDataLength);
                                                                                                                                // Compress data (DEFLATE algorythm)
unsigned char *DecompressData(unsigned char *compData, int compDataLength, int *dataLength); // Decompress data (DEFLATE algorythm)
// Persistent storage management
void StorageSaveValue(int position, int value);
                                                                                                    // Save integer value to storage file (to defined position)
                                                                                                    // Load integer value from storage file (from defined position)
int StorageLoadValue(int position);
void OpenURL(const char *url);
                                                                                                    // Open URL with default system browser (if available)
// Input Handling Functions
// Input-related functions: keyb
bool IsKeyPressed(int key);
                                                                                                    // Detect if a key has been pressed once
bool IsKeyDown(int key);
                                                                                                    // Detect if a key is being pressed
bool IsKeyReleased(int key);
                                                                                                    // Detect if a key has been released once
bool IsKeyUp(int key);
                                                                                                    // Detect if a key is NOT being pressed
                                                                                                    // Get latest key pressed
int GetKevPressed(void);
void SetExitKey(int key);
                                                                                                    // Set a custom key to exit program (default is ESC)
 // Input-related functions: gamepads
bool IsGamepadAvailable(int gamepad);
                                                                                                    // Detect if a gamepad is available
bool IsGamepadName(int gamepad, const char *name);
const char *GetGamepadName(int gamepad);
                                                                                                    // Check gamepad name (if available)
                                                                                                    // Return gamepad internal name id
bool IsGamepadButtonPressed(int gamepad, int button);
                                                                                                    // Detect if a gamepad button has been pressed once
bool IsGamepadButtonDown(int gamepad, int button);
                                                                                                    // Detect if a gamepad button is being pressed
bool IsGamepadButtonReleased(int gamepad, int button);
                                                                                                    // Detect if a gamepad button has been released once
bool IsGamepadButtonUp(int gamepad, int button);
                                                                                                    // Detect if a gamepad button is NOT being pressed
                                                                                                    // Get the last gamepad button pressed
int GetGamepadButtonPressed(void);
```

```
int GetGamepadAxisCount(int gamepad);
                                                                                   Return gamepad axis count for a gamepad
float GetGamepadAxisMovement(int gamepad, int axis);
                                                                                // Return axis movement value for a gamepad axis
// Input-related functions: mouse
bool IsMouseButtonPressed(int button);
                                                                                // Detect if a mouse button has been pressed once
                                                                                // Detect if a mouse button is being pressed
// Detect if a mouse button has been released once
bool IsMouseButtonDown(int button);
bool IsMouseButtonReleased(int button);
bool IsMouseButtonUp(int button);
                                                                                // Detect if a mouse button is NOT being pressed
int GetMouseX(void);
                                                                                // Returns mouse position X
                                                                                // Returns mouse position Y
// Returns mouse position XY
int GetMouseY(void);
Vector2 GetMousePosition(void);
void SetMousePosition(int x, int y);
                                                                                // Set mouse position XY
void SetMouseOffset(int offsetX, int offsetY);
                                                                                // Set mouse offset
void SetMouseScale(float scaleX, float scaleY);
                                                                                // Set mouse scaling
int GetMouseWheelMove(void);
                                                                                // Returns mouse wheel movement Y
// Input-related functions: touch
                                                                                // Returns touch position X for touch point 0 (relative to screen size) // Returns touch position Y for touch point 0 (relative to screen size) \,
int GetTouchX(void);
int GetTouchY(void);
Vector2 GetTouchPosition(int index);
                                                                                // \ {\tt Returns} \ {\tt touch} \ {\tt position} \ {\tt XY} \ {\tt for} \ {\tt a} \ {\tt touch} \ {\tt point} \ {\tt index} \ ({\tt relative} \ {\tt to} \ {\tt screen} \ {\tt size})
// Gestures and Touch Handling Functions (Module: gestures)
                                                                               // Enable a set of gestures using flags
void SetGesturesEnabled(unsigned int gestureFlags);
                                                                                // Check if a gesture have been detected
bool IsGestureDetected(int gesture);
int GetGestureDetected(void);
                                                                                // Get latest detected gesture
int GetTouchPointsCount(void);
                                                                                // Get touch points count
float GetGestureHoldDuration(void);
                                                                                // Get gesture hold time in milliseconds
Vector2 GetGestureDragVector(void);
                                                                                // Get gesture drag vector
float GetGestureDragAngle(void);
                                                                                // Get gesture drag angle
Vector2 GetGesturePinchVector(void);
                                                                                 // Get gesture pinch delta
float GetGesturePinchAngle(void);
                                                                                // Get gesture pinch angle
// Camera System Functions (Module: camera)
void SetCameraMode(Camera camera, int mode);
void UpdateCamera(Camera *camera);
                                                                                // Set camera mode (multiple camera modes available)
                                                                                // Update camera position for selected mode
void SetCameraPanControl(int panKey);
                                                                                // Set camera pan key to combine with mouse movement (free camera)
void SetCameraAltControl(int altKey);
                                                                                 // Set camera alt key to combine with mouse movement (free camera)
void SetCameraSmoothZoomControl(int szKey);
                                                                                // Set camera smooth zoom key to combine with mouse (free camera)
// Set camera move controls (1st person and 3rd person cameras)
```

### module: shapes

```
// Basic snapes grawing functions
void DrawPixel(int posX, int posY, Color color);
void DrawPixelV(Vector2 position, Color color);
void DrawLine(int startPosX, int startPosY, int endPosX, int endPosY, Color color);
void DrawLineV(Vector2 startPos, Vector2 endPos, Color color);
void DrawLineEx(Vector2 startPos, Vector2 endPos, float thick, Color color);
                                                                                                                                                                                                                  // Draw a pixel (Vector version)
                                                                                                                                                                                                                  // Draw a line
                                                                                                                                                                                                                  // Draw a line (Vector version)
// Draw a line defining thickness
void DrawLineBezier(Vector2 startPos, Vector2 endPos, float thick, Color color); void DrawLineStrip(Vector2 *points, int numPoints, Color color);
                                                                                                                                                                                                                  // Draw a line using cubic-bezier curves in-out
                                                                                                                                                                                                                  // Draw lines sequence
void DrawCircle(int centerX, int centerY, float radius, Color color);

// Draw a color-filled circle

void DrawCircleSector(Vector2 center, float radius, int startAngle, int endAngle, int segments, Color color);

// Draw a piece of a circle

void DrawCircleSectorLines(Vector2 center, float radius, int startAngle, int endAngle, int segments, Color color);

// Draw a gradient-filled circle

void DrawCircleV(Vector2 center, float radius, Color color1, Color color2);

// Draw a gradient-filled circle

void DrawCircleV(Vector2 center, float radius, Color color);

// Draw a color-filled circle (Vector version)

// Draw a color-filled circle (Vector version)
void DrawRingLines(Vector2 center, float innerRadius, float outerRadius, int startAngle, int endAngle, int segments, Color color); // Draw ring outline
void DrawRectangle(int posX, int posY, int width, int height, Color color);
void DrawRectangleV(Vector2 position, Vector2 size, Color color);
void DrawRectangleRec(Rectangle rec, Color color);
void DrawRectanglePro(Rectangle rec, Vector2 origin, float rotation, Color color);
                                                                                                                                                                                                                // Draw a color-filled rectangle
// Draw a color-filled rectangle (Vector version)
// Draw a color-filled rectangle
                                                                                                                                                                                                                   // Draw a color-filled rectangle with pro parameters
void DrawRectanglePro(Rectangle rec, Vector2 origin, float rotation, Color color);

void DrawRectangleGradientV(int posX, int posY, int width, int height, Color color1, Color color2);

// Draw a vertical-gradient-filled rectangle

void DrawRectangleGradientH(int posX, int posY, int width, int height, Color color1, Color color2);

// Draw a horizontal-gradient-filled rectangle

void DrawRectangleGradientEx(Rectangle rec, Color col1, Color col2, Color col3, Color col4);

// Draw a horizontal-gradient-filled rectangle

void DrawRectangleLines(int posX, int posY, int width, int height, Color color);

// Draw a gradient-filled rectangle with custom ver

void DrawRectangleLinesEx(Rectangle rec, int lineThick, Color color);

// Draw rectangle outline

void DrawRectangleRounded(Rectangle rec, float roundness, int segments, Color color);

// Draw rectangle with rounded edges

void DrawTriangle(Vector2 v1, Vector2 v2, Vector2 v3, Color color);

// Draw a color-filled triangle (vertex in counter-

void DrawTriangleFan(Vector2 v1, Vector2 v2, Vector2 v3, Color color);

// Draw a triangle fan defined by points (first ver
                                                                                                                                                                                                                // Draw a gradient-filled rectangle with custom vertex colors // Draw rectangle outline
                                                                                                                                                                                                                 // Draw a color-filled triangle (vertex in counter-clockwise order!)
// Draw triangle outline (vertex in counter-clockwise order!)
 void DrawTriangleFan(Vector2 *points, int numPoints, Color color);
                                                                                                                                                                                                                   // Draw a triangle fan defined by points (first vertex is the center)
void DrawTriangleStrip(Vector2 *points, int pointsCount, Color color);
void DrawPoly(Vector2 center, int sides, float radius, float rotation, Color color);
void DrawPolyLines(Vector2 center, int sides, float radius, float rotation, Color color);
                                                                                                                                                                                                                  // Draw a triangle strip defined by points \,
                                                                                                                                                                                                                   // Draw a regular polygon (Vector version)
                                                                                                                                                                                                                  // Draw a polygon outline of n sides
 // Basic shapes collision detection functions
 bool CheckCollisionRecs(Rectangle rec1, Rectangle rec2);
                                                                                                                                                                                                                  // Check collision between two rectangles
bool CheckCollisionCircles(Vector2 center1, float radius1, Vector2 center2, float radius2);
bool CheckCollisionCircleRec(Vector2 center, float radius, Rectangle rec);
Rectangle GetCollisionRec(Rectangle rec1, Rectangle rec2);
                                                                                                                                                                                                                  // Check collision between two circles
                                                                                                                                                                                                                  // Check collision between circle and rectangle
                                                                                                                                                                                                                  // Get collision rectangle for two rectangles collision
                                                                                                                                                                                                                  // Check if point is inside rectangle
 bool CheckCollisionPointRec(Vector2 point, Rectangle rec);
bool CheckCollisionPointCircle(Vector2 point, Vector2 center, float radius);
bool CheckCollisionPointTriangle(Vector2 point, Vector2 p1, Vector2 p2, Vector2 p3);
                                                                                                                                                                                                                  // Check if point is inside circle
                                                                                                                                                                                                                  // Check if point is inside a triangle
```

## module: textures

```
// Image/Texture2D data loading/unloading/saving functions
                                                                                                                                // Load image from file into CPU memory (RAM)
// Load image from Color array data (RGBA - 32bit)
// Load image from raw data with parameters
Image LoadImage(const char *fileName);
Image LoadImageEx(Color *pixels, int width, int height);
Image LoadImagePro(void *data, int width, int height, int
                                                                         format);
Image LoadImageRaw(const char *fileName, int width, int height, int format, int headerSize);
void ExportImage(Image image, const char *fileName);
void ExportImageAsCode(Image image, const char *fileName);
Texture2D LoadTexture(const char *fileName);
                                                                                                                                    Load image from RAW file data
                                                                                                                                    Export image data to file
                                                                                                                                   Export image as code file defining an array of bytes
                                                                                                                                    Load texture from file into GPU memory (VRAM)
Texture2D LoadTextureFromImage(Image image);
                                                                                                                                    Load texture from image data
                                                                                                                                    Load cubemap from image, multiple image cubemap layouts supported
TextureCubemap LoadTextureCubemap(Image image, int layoutType);
RenderTexture2D LoadRenderTexture(int width, int height);
                                                                                                                                 // Load texture for rendering (framebuffer)
void UnloadImage(Image image);
void UnloadTexture(Texture2D texture);
                                                                                                                                // Unload image from CPU memory (RAM)
// Unload texture from GPU memory (VRAM)
                                                                                                                                 // Unload render texture from GPU memory (VRAM)
void UnloadRenderTexture(RenderTexture2D target);
Color *GetImageData(Image image);
                                                                                                                                 // Get pixel data from image as a Color struct array
Vector4 *GetImageDataNormalized(Image image);
                                                                                                                                 // Get pixel data from image as Vector4 array (float normalized)
Rectangle GetImageAlphaBorder(Image image, float threshold);
int GetPixelDataSize(int width, int height, int format);
                                                                                                                                // Get image alpha border rectangle
// Get pixel data size in bytes (image or texture)
Image GetTextureData(Texture2D texture);
                                                                                                                                // Get pixel data from GPU texture and return an Image
Image GetScreenData(void);
                                                                                                                                 // Get pixel data from screen buffer and return an Image (screenshot)
void UpdateTexture(Texture2D texture, const void *pixels);
                                                                                                                                // Update GPU texture with new data
  / Image manipulation functions
Image ImageCopy(Image image);
                                                                                                                                // Create an image duplicate (useful for transformations)
Image ImageFromImage(Image image, Rectangle rec);
                                                                                                                                // Create an image from another image piece
void ImageToPOT(Image *image, Color fillColor);
void ImageFormat(Image *image, int newFormat);
void ImageAlphaMask(Image *image, Image alphaMask);
                                                                                                                                // Convert image to POT (power-of-two)
                                                                                                                                // Convert image data to desired format
                                                                                                                                 // Apply alpha mask to image
void ImageAlphaClear(Image *image, Color color, float threshold);
                                                                                                                                    Clear alpha channel to desired color
void ImageAlphaCrop(Image *image, float threshold);
void ImageAlphaPremultiply(Image *image);
                                                                                                                                 // Crop image depending on alpha value
                                                                                                                                 // Premultiply alpha channel
void ImageCrop(Image *image, Rectangle crop);
void ImageResize(Image *image, int newWidth, int newHeight);
                                                                                                                                // Crop an image to a defined rectangle
// Resize image (Bicubic scaling algorithm)
                                                                                                                                    Resize image (Nearest-Neighbor scaling algorithm)
void ImageResizeNN(Image *image, int newWidth,int newHeight);
void ImageResizeCanvas(Image *image, int newWidth, int newHeight, int offsetX, int offsetY, Color color); // Resize canvas and fill with color
void ImageMipmaps(Image *image);
void ImageDither(Image *image, int rBpp, int gBpp, int bBpp, int aBpp);
Color *ImageExtractPalette(Image image, int maxPaletteSize, int *extractCount);
                                                                                                                                    Generate all mipmap levels for a provided image
                                                                                                                                   Dither image data to 16bpp or lower (Floyd-Steinberg dithering)
Extract color palette from image to maximum size (memory should be freed
Image ImageText(const char *text, int fontSize, Color color);
                                                                                                                                    Create an image from text (default font)
Image ImageTextEx(Font font, const char *text, float fontSize, float spacing, Color tint);
                                                                                                                                 // Create an image from text (custom sprite font)
void ImageDraw(Image *dst, Image src, Rectangle srcRec, Rectangle dstRec, Color tint);
                                                                                                                                 // Draw a source image within a destination image (tint applied to source)
void ImageDrawRectangle(Image *dst, Rectangle rec, Color color);
                                                                                                                                    Draw rectangle within an image
```

```
void ImageDrawRectangleLines(Image *dst, Rectangle rec, int thick, Color color);
void ImageDrawText(Image *dst, Vector2 position, const char *text, int fontSize, Color color);
                                                                                                                                             Draw rectangle lines within an
                                                                                                                                          // Draw text (default font) within an image (destination)
void ImageDrawTextEx(Image *dst, Vector2 position, Font font, const char *text, float fontSize, float spacing, Color color); // Draw text (custom sprite font) within an image
                                                                                                                                         // Flip image vertically
// Flip image horizontally
void ImageFlipVertical(Image *image);
void ImageFlipHorizontal(Image *image);
void ImageRotateCW(Image *image);
                                                                                                                                         // Rotate image clockwise 90deg
void ImageRotateCCW(Image *image);
void ImageColorTint(Image *image, Color color);
                                                                                                                                         // Rotate image counter-clockwise 90deg
                                                                                                                                         // Modify image color: tint
void ImageColorInvert(Image *image);
                                                                                                                                         // Modify image color: invert
void ImageColorGrayscale(Image *image);
void ImageColorContrast(Image *image, float contrast);
                                                                                                                                         // Modify image color: grayscale
// Modify image color: contrast (-100 to 100)
                                                                                                                                         // Modify image color: brightness (-255 to 255)
void ImageColorBrightness(Image *image, int brightness);
void ImageColorReplace(Image *image, Color color, Color replace);
                                                                                                                                         // Modify image color: replace color
    Image generation functions
Image GenImageColor(int width, int height, Color color);
                                                                                                                                         // Generate image: plain color
Image GenImageGradientV(int width, int height, Color top, Color bottom);
                                                                                                                                         // Generate image: vertical gradient
Image GenImageGradientH(int width, int height, Color left, Color right);
                                                                                                                                         // Generate image: horizontal gradient
Image GenImageGradientRadial(int width, int height, float density, Color inner, Color outer);
Image GenImageChecked(int width, int height, int checksY, int checksY, Color col1, Color col2);
Image GenImageWhiteNoise(int width, int height, float factor);
Image GenImagePerlinNoise(int width, int height, int offsetY, float scale);
                                                                                                                                         // Generate image: radial gradient
                                                                                                                                         // Generate image: checked
// Generate image: white noise
                                                                                                                                         // Generate image: perlin noise
Image GenImageCellular(int width, int height, int tileSize);
                                                                                                                                         // Generate image: cellular algorithm. Bigger tileSize means bigger cells
void GenTextureMipmaps(Texture2D *texture);
                                                                                                                                         // Generate GPU mipmaps for a texture
                                                                                                                                          // Set texture scaling filter mode
void SetTextureFilter(Texture2D texture, int filterMode);
void SetTextureWrap(Texture2D texture, int wrapMode);
                                                                                                                                         // Set texture wrapping mode
void GenTextureMipmaps(Texture2D *texture);
                                                                                                                                         // Generate GPU mipmaps for a texture
void SetTextureFilter(Texture2D texture, int filterMode);
                                                                                                                                          // Set texture scaling filter mode
void SetTextureWrap(Texture2D texture, int wrapMode);
                                                                                                                                         // Set texture wrapping mode
void DrawTexture(Texture2D texture, int posX, int posY, Color tint);
                                                                                                                                         // Draw a Texture2D
void DrawTextureV(Texture2D texture, Vector2 position, Color tint);
                                                                                                                                          // Draw a Texture2D with position defined as Vector2
void DrawTextureEx(Texture2D texture, Vector2 position, float rotation, float scale, Color tint);
                                                                                                                                         \begin{tabular}{lll} // & Draw & a & Texture 2D & with extended & parameters \\ \end{tabular}
void DrawTextureRec(Texture2D texture, Rectangle sourceRec, Vector2 position, Color tint); // Draw a part of a texture defined by a rectangle void DrawTextureQuad(Texture2D texture, Vector2 tiling, Vector2 offset, Rectangle quad, Color tint); // Draw texture quad with tiling and offset parameters void DrawTexturePro(Texture2D texture, Rectangle sourceRec, Rectangle destRec, Vector2 origin, float rotation, Color tint); // Draw a part of a texture defined by a rect void DrawTexturePro(Texture2D texture, NPatchInfo nPatchInfo, Rectangle destRec, Vector2 origin, float rotation, Color tint); // Draws a texture (or part of it) that stret
```

#### module: text

```
/ Font loading/unloading functions
 Font GetFontDefault(void);
                                                                                                                                                                          // Get the default Font
Font LoadFont(const char *fileName);
Font LoadFontEx(const char *fileName, int fontSize, int *fontChars, int charsCount);

Font LoadFontEx(const char *fileName, int fontSize, int *fontChars, int charsCount);

Font LoadFontFromImage(Image image, Color key, int firstChar);

CharInfo *LoadFontData(const char *fileName, int fontSize, int *fontChars, int charsCount, int type);

CharInfo *LoadFontData(const char *fileName, int fontSize, int *fontChars, int charsCount, int type);

Load font from file with extended parameters

// Load font from Image (XNA style)

CharInfo *LoadFontData(const char *fileName, int fontSize, int charsCount, int type);

Load font from Image (XNA style)

CharInfo *LoadFontAtlas(const char *fileName, int fontSize, int charsCount, int fontSize, int padding, int packMethod);

// Generate image font atlas using chars info

// Unload Font from GPU memory (VRAM)
 void DrawFPS(int posX, int posY);
                                                                                                                                                                          // Shows current FPS
 void DrawText(const char *text, int posX, int posY, int fontSize, Color color);
                                                                                                                                                                          // Draw text (using default font)
void DrawTextCodepoint(Font font, int codepoint, Vector2 position, float scale, Color tint);
                                                                                                                                                                          // Draw one character (codepoint)
 int MeasureText(const char *text, int fontSize);
                                                                                                                                                                          // Measure string width for default font
 Vector2 MeasureTextEx(Font font, const char *text, float fontSize, float spacing);
                                                                                                                                                                          // Measure string size for Font
 int GetGlyphIndex(Font font, int codepoint);
                                                                                                                                                                          // Get index position for a unicode character on font
 // Text strings management functions (no utf8 strings, only byte chars)
     NOTE: Some strings allocate memory internally for returned strings, just be careful!
// NOTE: Some strings allocate memory internally for returned strings, just be
int TextCopy(char *dst, const char *src);
bool TextIsEqual(const char *text1, const char *text2);
unsigned int TextLength(const char *text);
const char *TextFormat(const char *text, ...);
const char *TextSubtext(const char *text, int position, int length);
char *TextReplace(char *text, const char *replace, const char *by);
char *TextInsert(const char *text, const char *insert, int position);
const char *TextJoin(const char *textList, int count, const char *delimiter);
const char *TextSplit(const char *text, char delimiter, int *count);
void TextAppend(char *text, const char *append, int *position);
int TextFindIndex(const char *text, const char *find);
const char *TextToUpper(const char *text);
                                                                                                                                                                          // Copy one string to another, returns bytes copied
                                                                                                                                                                         // Check if two text string are equal // Get text length, checks for '\0' ending
                                                                                                                                                                          // Text formatting with variables (sprintf style)
// Get a piece of a text string
                                                                                                                                                                          // Replace text string (memory must be freed!)
                                                                                                                                                                           // Insert text in a position (memory must be freed!)
                                                                                                                                                                          // Join text strings with delimiter
// Split text into multiple strings
// Append text at specific position and move cursor!
                                                                                                                                                                          // Find first text occurrence within a string
const char *TextToUpper(const char *text);
const char *TextToLower(const char *text);
const char *TextToPascal(const char *text);
                                                                                                                                                                          // Get upper case version of provided string
                                                                                                                                                                         // Get lower case version of provided string
// Get Pascal case notation version of provided string
// Get integer value from text (negative values not supported)
 int TextToInteger(const char *text);
 char *TextToUtf8(int *codepoints, int length);
                                                                                                                                                                          // Encode text codepoint into utf8 text (memory must be freed!)
// UTF8 text strings management functions
int *GetCodepoints(const char *text, int *count);
                                                                                                                                                                         // Get all codepoints in a string, codepoints count returned by parameters
                                                                                                                                                                         // Get total number of characters (codepoints) in a UTF8 encoded string
// Returns next codepoint in a UTF8 encoded string; 0x3f('?') is returned on
 int GetCodepointsCount(const char *text);
 int GetNextCodepoint(const char *text, int *bytesProcessed);
 const char *CodepointToUtf8(int codepoint, int *byteLength);
                                                                                                                                                                          // Encode codepoint into utf8 text (char array length returned as parameter)
```

# module: models

```
void DrawLine3D(Vector3 startPos, Vector3 endPos, Color color);
                                                                                                                        // Draw a line in 3D world space
void DrawCircle3D(Vector3 center, float radius, Vector3 rotationAxis, float rotationAngle, Color color); // Draw a point in 3D space, actually a small line void DrawCube (Vector3 position, float width, float height, float length, Color color); // Draw a circle in 3D world space void DrawCubeV(Vector3 position, Vector3 size. Color color);
                                                                                                                       // Draw cube wires
// Draw cube wires (Vector version)
void DrawCubeWires (Vector3 position, float width, float height, float length, Color color);
void DrawCubeWiresV(Vector3 position, Vector3 size, Color color);
void DrawCubeTexture(Texture2D texture, Vector3 position, float width, float height, float length, Color color); // Draw cube textured void DrawSphere(Vector3 centerPos, float radius, Color color); // Draw sphere
void DrawSphereEx(Vector3 centerPos, float radius, int rings, int slices, Color color);
                                                                                                                        // Draw sphere with extended parameters
void DrawSphereWires(Vector3 centerPos, float radius, int rings, int slices, Color color);
                                                                                                                        // Draw sphere wires
void DrawCylinder(Vector3 position, float radiusTop, float radiusBottom, float height, int slices, Color color); // Draw a cylinder/cone void DrawCylinderWires(Vector3 position, float radiusTop, float radiusBottom, float height, int slices, Color color); // Draw a cylinder/cone wires
void DrawPlane(Vector3 centerPos, Vector2 size, Color color);
                                                                                                                       // Draw a plane XZ
void DrawRay(Ray ray, Color color);
                                                                                                                        // Draw a ray line
void DrawGrid(int slices, float spacing);
                                                                                                                        // Draw a grid (centered at (0, 0, 0))
void DrawGizmo(Vector3 position);
                                                                                                                       // Draw simple gizmo
   Model loading/unloading functions
Model LoadModel(const char *fileName);
                                                                                                                        // Load model from files (meshes and materials)
Model LoadModelFromMesh (Mesh mesh);
                                                                                                                        // Load model from generated mesh (default material)
void UnloadModel(Model model);
 // Mesh loading/unloading functions
Mesh *LoadMeshes(const char *fileName, int *meshCount);
                                                                                                                        // Load meshes from model file
void ExportMesh (Mesh mesh, const char *fileName);
                                                                                                                        // Export mesh data to file
                                                                                                                        // Unload mesh from memory (RAM and/or VRAM)
void UnloadMesh (Mesh mesh);
   Material loading/unloading functions
Material *LoadMaterials(const char *fileName, int *materialCount);
                                                                                                                       // Load materials from model file
Material LoadMaterialDefault(void);
                                                                                                                        // Load default material (Supports: DIFFUSE, SPECULAR, NORMAL maps)
void UnloadMaterial(Material material);
void SetMaterialTexture(Material *material, int mapType, Texture2D texture);
                                                                                                                       // Unload material from GPU memory (VRAM)
// Set texture for a material map type (MAP_DIFFUSE, MAP_SPECULAR...)
void SetModelMeshMaterial(Model *model, int meshId, int materialId);
                                                                                                                        // Set material for a mesh
// Model animations loading/unloading functions
ModelAnimation *LoadModelAnimations(const char *fileName, int *animsCount);
                                                                                                                        // Load model animations from file
                                                                                                                        // Update model animation pose
void UpdateModelAnimation(Model model, ModelAnimation anim, int frame);
```

```
void UnloadModelAnimation(ModelAnimation anim);
                                                                                                                                                                                                                            Unload animation data
                                                                                                                                                                                                                      // Check model animation skeleton match
 bool IsModelAnimationValid(Model model, ModelAnimation anim);
// Mesh generation functions
Mesh GenMeshPoly(int sides, float radius);
Mesh GenMeshPlane(float width, float length, int resX, int resZ);
Mesh GenMeshCube(float width, float height, float length);
                                                                                                                                                                                                                     // Generate polygonal mesh
// Generate plane mesh (with subdivisions)
                                                                                                                                                                                                                      // Generate cuboid mesh
Mesh GenMeshSphere(float radius, int rings, int slices);
                                                                                                                                                                                                                      // Generate sphere mesh (standard sphere)
Mesh GenMeshHemiSphere(float radius, int rings, int slices);
Mesh GenMeshCylinder(float radius, float height, int slices);
Mesh GenMeshTorus(float radius, float size, int radSeg, int sides);
Mesh GenMeshKnot(float radius, float size, int radSeg, int sides);
                                                                                                                                                                                                                      // Generate half-sphere mesh (no bottom cap)
                                                                                                                                                                                                                     // Generate cylinder mesh
// Generate torus mesh
                                                                                                                                                                                                                      // Generate trefoil knot mesh
Mesh GenMeshHeightmap(Image heightmap, Vector3 size);
                                                                                                                                                                                                                      // Generate heightmap mesh from image data
Mesh GenMeshCubicmap(Image cubicmap, Vector3 cubeSize);
                                                                                                                                                                                                                      // Generate cubes-based map mesh from image data
 // Mesh manipulation functions
 BoundingBox MeshBoundingBox (Mesh mesh);
                                                                                                                                                                                                                     // Compute mesh bounding box limits
                                                                                                                                                                                                                       // Compute mesh tangents
 void MeshTangents(Mesh *mesh);
 void MeshBinormals(Mesh *mesh);
                                                                                                                                                                                                                       // Compute mesh binormals
 // Model drawing functions
 void DrawModel(Model model, Vector3 position, float scale, Color tint);
                                                                                                                                                                                                                      // Draw a model (with texture if set)
void DrawModelEx(Model model, Vector3 position, Vector3 rotationaxis, frost rotationax
void DrawModelEx(Model model, Vector3 position, Vector3 rotationAxis, float rotationAngle, Vector3 scale, Color tint); // Draw a model with extended parameters
void DrawModelWires(Model model, Vector3 position, float scale, Color tint); // Draw a model wires (with texture if set)
 void DrawBillboardRec(Camera camera, Texture2D texture, Rectangle sourceRec, Vector3 center, float size, Color tint); // Draw a billboard texture defined by sourceRec
bool CheckCollisionSpheres(Vector3 centerA, float radiusA, Vector3 centerB, float radiusB);
bool CheckCollisionBoxes(BoundingBox box1, BoundingBox box2);
                                                                                                                                                                                                                     // Detect collision between two spheres
                                                                                                                                                                                                                      // Detect collision between two bounding boxes
bool CheckCollisionRaySphere(Ray ray, Vector3 center, float radius);
bool CheckCollisionRaySphere(Ray ray, Vector3 center, float radius);
bool CheckCollisionRaySphereEx(Ray ray, Vector3 center, float radius, Vector3 *collisionPoint);
bool CheckCollisionRayBox(Ray ray, BoundingBox box);
                                                                                                                                                                                                                      // Detect collision between box and sphere
                                                                                                                                                                                                                      // Detect collision between ray and sphere
                                                                                                                                                                                                                    // Detect collision between ray and sphere, returns collision point // Detect collision between ray and box
 RayHitInfo GetCollisionRayModel(Ray ray, Model model);
                                                                                                                                                                                                                     // Get collision info between ray and model
RayHitInfo GetCollisionRayTriangle(Ray ray, Vector3 p1, Vector3 p2, Vector3 p3);
RayHitInfo GetCollisionRayGround(Ray ray, float groundHeight);
                                                                                                                                                                                                                      // Get collision info between ray and triangle
                                                                                                                                                                                                                      // Get collision info between ray and ground plane (Y-normal plane)
```

### module: shaders (rlgl)

```
// Shader loading/unloading functions
char *LoadText(const char *fileName);
                                                                                                                      // Load chars array from text file
Shader LoadShader(const char *vsFileName, const char *fsFileName);
Shader LoadShaderCode(char *vsCode, char *fsCode);
                                                                                                                      // Load shader from files and bind default locations // Load shader from code strings and bind default locations
void UnloadShader(Shader shader);
                                                                                                                      // Unload shader from GPU memory (VRAM)
Shader GetShaderDefault(void);
Texture2D GetTextureDefault(void);
                                                                                                                      // Get default texture
                                                                                                                      // Get texture to draw shapes
Texture2D GetShapesTexture(void);
Rectangle GetShapesTextureRec(void);
                                                                                                                      // Get texture rectangle to draw shapes
void SetShapesTexture(Texture2D texture, Rectangle source);
                                                                                                                      // Define default texture used to draw shapes
int GetShaderLocation(Shader shader, const char *uniformName);
                                                                                                                      // Get shader uniform location
                                                                                                                      // Set shader uniform value
void SetShaderValue(Shader shader, int uniformLoc, const void *value, int uniformType);
void SetShaderValueV(Shader shader, int uniformLoc, const void *value, int uniformType, int count); // Set shader uniform value vector
                                                                                                                      // Set shader uniform value (matrix 4x4) // Set shader uniform value for texture
void SetShaderValueMatrix(Shader shader, int uniformLoc, Matrix mat);
void SetShaderValueTexture(Shader shader, int uniformLoc, Texture2D texture);
void SetMatrixProjection(Matrix proj);
                                                                                                                      // Set a custom projection matrix (replaces internal projection matrix)
void SetMatrixModelview(Matrix view);
                                                                                                                      // Set a custom modelview matrix (replaces internal modelview matrix)
Matrix GetMatrixModelview();
                                                                                                                      // Get internal modelview matrix
Matrix GetMatrixProjection(void);
                                                                                                                      // Get internal projection matrix
// Shading begin/end functions
void BeginShaderMode(Shader shader);
                                                                                                                      // Begin custom shader drawing
void EndShaderMode(void);
void BeginBlendMode(int mode);
                                                                                                                      // End custom shader drawing (use default shader)
                                                                                                                      // Begin blending mode (alpha, additive, multiplied)
// End blending mode (reset to default: alpha blending)
void EndBlendMode(void);
// VR control functions
void InitVrSimulator(void);
                                                                                                                      // Init VR simulator for selected device parameters // Close VR simulator for current device
void CloseVrSimulator(void);
                                                                                                                      // Update VR tracking (position and orientation) and camera
void UpdateVrTracking(Camera *camera);
void SetVrConfiguration(VrDeviceInfo info, Shader distortion);
                                                                                                                      // Set stereo rendering configuration parameters
bool IsVrSimulatorReady(void);
                                                                                                                      // Detect if VR simulator is ready
void ToggleVrMode(void);
void BeginVrDrawing(void);
                                                                                                                      // Enable/Disable VR experience
// Begin VR simulator stereo rendering
// End VR simulator stereo rendering
void EndVrDrawing(void);
```

## module: audio

```
// Audio device management functions
void InitAudioDevice(void);
                                                                                                  // Initialize audio device and context
void CloseAudioDevice(void);
                                                                                                  // Close the audio device and context (and music stream)
bool IsAudioDeviceReady(void);
                                                                                                  // Check if audio device is ready
                                                                                                  // Set master volume (listener)
void SetMasterVolume(float volume);
// Wave/Sound loading/unloading functions
Wave LoadWave(const char *fileName);
                                                                                                   // Load wave data from file
Wave LoadWaveEx(void *data, int sampleCount, int sampleRate, int sampleSize, int channels); // Load wave data from raw array data
Sound LoadSound(const char *fileName); // Load sound from file
Sound LoadSoundFromWave(Wave wave); // Load sound from wave data
void UpdateSound(Sound sound, const void *data, int samplesCount); // Update sound buffer with new data
void UnloadWave(Wave wave);
                                                                                                      Unload wave data
void UnloadSound(Sound sound);
                                                                                                  // Unload sound
      ExportWave (Wave wave
                                     st char *fileName);
                                                                                                      Export wave data
void ExportWaveAsCode(Wave wave, const char *fileName);
                                                                                                   // Export wave sample data to code (.h)
void PlaySound(Sound sound);
                                                                                                  // Play a sound
void StopSound(Sound sound);
                                                                                                  // Stop playing a sound
                                                                                                  // Pause a sound
// Resume a paused sound
void PauseSound (Sound sound);
void ResumeSound(Sound sound);
                                                                                                     Play a sound (using multichannel buffer pool)
void PlaySoundMulti(Sound sound);
void StopSoundMulti(void);
                                                                                                  // Stop any sound playing (using multichannel buffer pool)
int GetSoundsPlaying(void);
                                                                                                  // Get number of sounds playing in the multichannel
                                                                                                  // Check if a sound is currently playing
// Set volume for a sound (1.0 is max level)
bool IsSoundPlaying(Sound sound);
void SetSoundYolume(Sound sound, float volume);
void SetSoundPitch(Sound sound, float pitch);
                                                                                                   // Set pitch for a sound (1.0 is base level)
void WaveFormat(Wave *wave, int sampleRate, int sampleSize, int channels);
                                                                                                  // Convert wave data to desired format
Wave WaveCopy(Wave wave);
void WaveCrop(Wave *wave, int initSample, int finalSample);
                                                                                                  // Copy a wave to a new wave
                                                                                                  // Crop a wave to defined samples range
                                                                                                  // Get samples data from wave as a floats array
float *GetWaveData(Wave wave);
  / Music management functions
Music LoadMusicStream(const char *fileName);
                                                                                                  // Load music stream from file
void UnloadMusicStream(Music music);
void PlayMusicStream(Music music);
                                                                                                  // Start music playing
void UpdateMusicStream(Music music);
                                                                                                  // Updates buffers for music streaming
                                                                                                  // Stop music playing
void StopMusicStream(Music music);
void PauseMusicStream(Music music);
                                                                                                  // Pause music playing
                                                                                                  // Resume playing paused music
// Check if music is playing
void ResumeMusicStream(Music music);
bool IsMusicPlaying(Music music);
void SetMusicVolume(Music music, float volume);
                                                                                                  // Set volume for music (1.0 is max level)
void SetMusicPitch(Music music, float pitch);
                                                                                                  // Set pitch for a music (1.0 is base level)
                                                                                                  // Set music loop count (loop repeats)
// Get music time length (in seconds)
void SetMusicLoopCount(Music music, int count);
float GetMusicTimeLength(Music music);
float GetMusicTimePlayed(Music music);
                                                                                                  // Get current music time played (in seconds)
// AudioStream management functions
AudioStream InitAudioStream (unsigned int sampleRate, unsigned int sampleSize, unsigned int channels); // Init audio stream (to stream raw audio pcm data) void UpdateAudioStream (AudioStream stream, const void *data, int sampleSCount); // Update audio stream buffers with data
void CloseAudioStream(AudioStream stream);
                                                                                                    / Close audio stream and free memory
bool IsAudioBufferProcessed(AudioStream stream);
                                                                                                     Check if any audio stream buffers requires refill
```

```
void PlayAudioStream(AudioStream stream);
void PauseAudioStream(AudioStream stream);
void ResumeAudioStream(AudioStream stream);
bool IsAudioStreamPlaying(AudioStream stream);
void StopAudioStream(AudioStream stream);
void SetAudioStreamVolume(AudioStream stream, float volume);
void SetAudioStreamPitch(AudioStream stream, float pitch);
```

```
// Play audio stream
// Pause audio stream
// Resume audio stream
// Check if audio stream is playing
// Stop audio stream
// Set volume for audio stream (1.0 is max level)
// Set pitch for audio stream (1.0 is base level)
```

#### structs

```
struct Vector2;
                          // Vector2 type
struct Vector3;
                          // Vector3 type
                          // Vector4 type
struct Vector4;
                          // Quaternion type
struct Ouaternion;
struct Matrix;
                          // Matrix type (OpenGL style 4x4)
struct Color;
                          // Color type, RGBA (32bit)
struct Rectangle;
                          // Rectangle type
struct Image;
                          // Image type (multiple pixel formats supported)
                          // NOTE: Data stored in CPU memory (RAM)
struct Texture;
                          // Texture type (multiple internal formats supported)
                          // NOTE: Data stored in GPU memory (VRAM)
struct RenderTexture;
                          // RenderTexture type, for texture rendering
                          // N-Patch layout info
struct NPatchInfo;
                          // Font character info
struct CharInfo;
struct Font;
                          // Font type, includes texture and chars data
                          // Camera type, defines 3d camera position/orientation
// Camera2D type, defines a 2d camera
struct Camera;
struct Camera2D;
struct Mesh;
                          // Vertex data definning a mesh
struct Shader;
                          // Shader type (generic shader)
                          // Material texture map
// Material type
// Basic 3d Model type
struct MaterialMap;
struct Material;
struct Model;
struct Transform;
                          // Transformation (used for bones)
struct BoneInfo;
                          // Bone information
struct ModelAnimation;
                          // Model animation data (bones and frames)
                          // Ray type (useful for raycast)
// Raycast hit information
struct Ray;
struct RayHitInfo;
struct BoundingBox;
                          // Bounding box type for 3d\ mesh
                          // Wave type, defines audio wave data
struct Wave;
                          // Basic Sound source and buffer
// Music type (file streaming from memory)
struct Sound:
struct Music;
struct AudioStream;
                          // Raw audio stream type
                          // VR device parameters
struct VrDeviceInfo;
```

### colors

```
// Custom raylib color palette for amazing visuals
                                                                 // Light Gray
#define LIGHTGRAY (Color) { 200, 200, 200, 255 }
                                                                 // Gray
// Dark Gray
#define GRAY
                      (Color) { 130, 130, 130, 255 }
                      (Color) { 80, 80, 80, 255 }
(Color) { 253, 249, 0, 255 }
#define DARKGRAY
#define YELLOW
                                                                 // Yellow
#define GOLD
                      (Color) { 255, 203, 0, 255 }
                                                                 // Gold
#define ORANGE
                      (Color) { 255, 161, 0, 255 }
                                                                 // Orange
#define PINK
                      (Color) { 255, 109, 194, 255 }
(Color) { 230, 41, 55, 255 }
                                                                 // Pink
// Red
#define RED
#define MAROON
                      (Color) { 190, 33, 55, 255 }
                                                                 // Maroon
#define GREEN
                      (Color) { 0, 228, 48, 255 }
                                                                 // Green
#define LIME
                      (Color) { 0, 158, 47, 255 }
                                                                 // Lime
                      (Color) { 0, 117, 44, 255 }
(Color) { 102, 191, 255, 255 }
                                                                 // Dark Green
#define DARKGREEN
#define SKYBLUE
                                                                 // Sky Blue
                                                                 // Blue
                      (Color) { 0, 121, 241, 255 }
#define BLUE
#define DARKBLUE
                      (Color) { 0, 82, 172, 255 }
                                                                 // Dark Blue
#define PURPLE
                      (Color) { 200, 122, 255, 255 }
                                                                 // Purple
#define VIOLET (Color) { 135, 60, 190, 255 }
#define DARKPURPLE (Color) { 112, 31, 126, 255 }
                                                                 // Violet
                                                                 // Dark Purple
#define BEIGE
                                                                 // Beige
                      (Color) { 211, 176, 131, 255 }
#define BROWN
                      (Color) { 127, 106, 79, 255 }
                                                                 // Brown
#define DARKBROWN (Color) { 76, 63, 47, 255 }
                                                                 // Dark Brown
#define WHITE
                      (Color) { 255, 255, 255, 255 }
                                                                 // White
                      (Color) { 0, 0, 0, 255 }
                                                                 // Black
#define BLACK
#define BLANK
                      (Color) { 0, 0, 0, 0 }
                                                                 // Transparent
                      (Color) { 255, 0, 255, 255 }
(Color) { 245, 245, 245, 255 }
                                                                 // Magenta
// Ray White
#define MAGENTA
#define RAYWHITE
```

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