## Zappy

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## **Chapter 1**

# raylib bindings and wrappers

Some people ported raylib to other languages in form of bindings or wrappers to the library. Here is a list with all the ports available. Feel free to send a PR if you know of any binding/wrapper not in this list.

### 1.0.1 Language Bindings

name	raylib version	language	license	repo
raylib	4.2	C/C++	Zlib	https↔ ://github.↔ com/raysan5/raylib
raylib-boo	3.7	Воо	MIT	https↔ ://github.↔ com/↔ Rabios/raylib-boo
Raylib-cs	4.2	C#	Zlib	https↔ ://github.↔ com/Chris↔ Dill/Raylib-cs
Raylib-CsLo	4.2	C#	MPL-2.0	https↔ ://github.↔ com/NotNot↔ Tech/Raylib-↔ CsLo
cl-raylib	4.0	Common Lisp	MIT	https↔ ://github.↔ com/longlene/cl-ray
claylib/wrap	4.2	Common Lisp	Zlib	https↔ ://github.↔ com/defun-games/cla
chez-raylib	auto	Chez Scheme	GPLv3	https↔ ://github.↔ com/↔ Yunoinsky/chez-rayl
raylib-cr	4.5-dev (7e7939e)	Crystal	Apache-2.0	https↔ ://github.↔ com/sol-vin/raylib-
ray-cyber	4.2	Cyber	MIT	https↔ ://github.↔ com/fubark/ray-cybe

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name	raylib version	language	license	repo
raylib-c3	4.5-dev	C3	MIT	https↔
•				://github.↔
				com/Its-↔
				Kenta/↔
				Raylib-C3
dart-raylib	4.0	 Dart	MIT	https↔
dai t-rayiib	7.0	Darc	IVIII	://gitlab.↔
				com/wolfenrain/dart-ray
· · · · · · · · · · · · · · · · · · ·	4.0		DOI 10	
bindbc-raylib3	4.0	D	BSL-1.0	https↔
				://github.↔
				com/o3o/bindbc-raylib3
dray	4.2	D	Apache-2.0	https↔
				://github.↔
				com/redthing1/dray
raylib-d	4.2	D	Zlib	https↔
· <del> ,</del>			-	://github.↔
				com/schveiguy/raylib-d
dlang raylib	4.0	D	MPL-2.0	
dlarig_rayiib	4.0	Д	IVIPL-2.U	https↔
				://github.↔
				com/rc-05/dlang←
				_raylib
rayex	3.7	elixir	Apache-2.0	https↔
				://github.↔
				com/shiryel/rayex
raylib-factor	4.0	Factor	BSD	https↔
rayino iaotti.		1 40011		://github.↔
				com/factor/factor/blob/r
				factor
raylib-freebasic	4.2	FreeBASIC	MIT	https↔
ayllu-lieebasic	4.2	FLEEDASIC	IVII I	nttps↔ ://github.↔
				I I
				COM/↔
				WIITD/raylib-freebasic
raylib-go	4.2	Go	Zlib	https↔
				://github.↔
				com/gen2brain/raylib-go
raylib-guile	auto	Guile	Zlib	https↔
				://github.↔
				com/petelliott/raylib-gu
-feeth roulih	3.5	Cforth	MIT	
gforth-raylib	ა.ⴢ	Gforth	IVII I	https↔
				://github.↔
				com/Arnaut↔
				Daniel/gforth-raylib
h-raylib	4.5-dev	Haskell	Apache-2.0	https↔
				://github.↔
				com/←
				Anut-py/h-raylib
raylib-hx	4.2	Haxe	Zlib	https↔
Taynu-na	7.4	11ave	LIIV	
				://github.↔
				com/foreignsasquatch/ray
hb-raylib	3.5	Harbour	MIT	https←
				://github.↔
				com/Marcos↔
	1			
				l Leonardo←
				Leonardo↔ Mendez↔

name	raylib version	language	license	repo
jaylib	4.2	Java	GPLv3+CE	https↔
, ,				://github.↔
				com/electronstudio/jaylib/
raylib-j	4.0	Java	Zlib	https↔
				://github.↔
				com/CreedVI/↔
				Raylib-J
raylib.jl	4.2	Julia	Zlib	https←
				://github.↔
				com/irishgreencitrus/raylib
				jl jl
kaylib	3.7	Kotlin/native	?	https↔
				://github.↔
				com/electronstudio/kaylib
kaylib	4.5-dev	Kotlin/native	Zlib	https↔
				://codeberg.←
				org/Kenta/↔
				Kaylib
raylib-lua	4.2	Lua	ISC	https↔
				://github.↔
				com/←
				TSnake41/raylib-lua
raylua	4.0	Lua	MIT	https↔
				://github.↔
				com/↔
				Rabios/raylua
nelua-raylib	4.0	nelua	MIT	https↔
				://github.↔
				com/←
				AKDev21/nelua-raylib
Raylib-Nelua	4.5-dev	nelua	MIT	https↔
				://github.↔
				com/Its-↔
				Kenta/↔
NimroviihNovel	4.2	N1	MIT	Raylib-Nelua
NimraylibNow!	4.2	Nim	IVII I	https↔
				://github.↔ com/greenfork/nimraylib↔
				_now
raylib-Forever	auto	Nim	?	https↔
rayllu-i Ulevel	auto	IN TIII	f	://github.↔
				com/←
				Guevara-chan/←
				Raylib-Forever
naylib	auto	Nim	MIT	https↔
i iaj iib	4310	242111	14111	://github.↔
				com/planetis-m/haylib
node-raylib	4.0	Node.js	Zlib	https↔
nodo rayno		1.000.10		://github.↔
				com/Rob←
				Loach/node-raylib

TurboRaylib	name	raylib version	language	license	repo
	raylib_odin_bindings	4.0-dev	Odin	MIT	
				1	
				1	
Raylib-odin				1	I F
				1	_odin_bindings
	raylib-odin	4.0	Odin	BSD-3Clause	https↔
				1	_
				1	
Raylib-ocami				1	Odin/tree/master/vendor/ra
TurboRaylib	ravlib-ocaml	4.2	OCaml	MIT	
TurboRaylib   4.2   Object Pascal   MIT	169			1	_
TurboRaylib				1	
Ray4Laz	TurboRavlih	19	Object Pascal	MIT	
Ray4Laz	luibunayiib	4.4	Object rascar	IVII I	_
Ray4Laz				1	
Ray4Laz				1	
Raylib.4.0.Pascal   4.0   Free Pascal   Zlib   https				<del></del>	
Raylib 4.0. Pascal	Ray4Laz	4.2	Free Pascal	Zlib	
Raylib.4.0.Pascal   4.0   Free Pascal   Zlib   https				1	
Raylib.4.0.Pascal				1	
Raylib.4.0.Pascal					Code/Ray4Laz
	Raylib.4.0.Pascal	4.0	Free Pascal	Zlib	
Description				1	_
Pyraylib   3.7   Python   Zlib   https				1	
Pascal   https:-://github.				1	
pyraylib 3.7 Python Zlib https↔ ://github.↔ com/← Ho011/pyraylib  raylib-python-cffi 4.2 Python EPL-2.0 https↔ ://github.↔ com/electronstudio/raylib  raylibpyctbg 4.2 Python MIT https↔ ://github.↔ com/overdev/raylibpyctbg  raylib-py 4.2 Python MIT https↔ ://github.↔ com/overdev/raylib-py  raylib-python-ctypes 4.2 Python MIT https↔ ://github.↔ com/overdev/raylib-py  raylib-python-ctypes 2.5 PHP Zlib https↔ ://github.↔ com/joseph-montanez/raylib-python-ctyp  raylib-phpcpp 3.5 PHP Zlib https↔ ://github.↔ com/joseph-montanez/raylib-phpcpp  raylibr 4.0 R MIT https↔ ://github.↔ com/oraoto/raylib-phpcpp  raylibrs 3.5 Rust Zlib https↔ ://github.↔ com/joseph-montanez/raylib-phpcpp				1	
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raylib-python-cffi  4.2 Python EPL-2.0 https- com/electronstudio/raylib  raylibpyctbg  4.2 Python MIT https- ://github com/overdev/raylibpyctbg  raylib-py  raylib-python-ctypes  4.2 Python MIT https- ://github com/overdev/raylib-py  raylib-python-ctypes  4.2 Python MIT https- ://github com/overdev/raylib-py  raylib-php 3.5 PHP Zlib https- ://github com/joseph-montanez/raylib  raylib-phpcpp  3.5 PHP Zlib https- ://github com/joseph-montanez/raylib  https- ://github com/oraoto/raylib-phpcpp  raylibr 4.0 R MIT https- ://github com/jeroenjanssens/raylib  raylib-rs 3.5 Rust Zlib https- ://github com/jeroenjanssens/raylib	Pyrayiio	3.1	Руспоп	<b>ZIID</b>	_
raylib-python-cffi  4.2 Python  EPL-2.0 https← ://github.← com/electronstudio/raylib  https← ://github.← com/overdev/raylib-python-ctype  raylib-python-ctypes  4.2 Python  MIT https← ://github.← com/overdev/raylib-py  raylib-python-ctypes  4.2 Python  MIT https← ://github.← com/s← Dos280/raylib-python-ctyp  raylib-php  raylib-php  3.5 PHP  Zlib https← ://github.← com/joseph-mont anez/raylii  raylib-phpcpp  raylibr  4.0 R MIT https← ://github.← com/oraoto/raylib-phpcpp  raylibrs  3.5 Rust  Zlib https← ://github.← com/oraoto/raylib-phpcpp  raylibr  4.0 R MIT https← ://github.← com/jeroenjanssens/raylib  https← ://github.← com/jeroenjanssens/raylib				1	
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raylib-py  4.2 Python MIT https← ://github.← com/overdev/raylib-py raylib-python-ctypes  4.2 Python MIT https← ://github.← com/s← Dos280/raylib-python-ctyp  raylib-php 3.5 PHP Zlib https← ://github.← com/joseph-montanez/raylib raylib-phpcpp 3.5 PHP Zlib https← ://github.← com/oraoto/raylib-phpcpp  raylibr 4.0 R MIT https← ://github.← com/oraoto/raylib-phpcpp  raylibrs 3.5 Rust Zlib https← ://github.← com/jeroenjanssens/raylib	raylibpyctbg	4.2	Python	MIT	https↔
raylib-py  4.2 Python MIT https↔ ://github.↔ com/overdev/raylib-py raylib-python-ctypes  4.2 Python MIT https↔ ://github.↔ com/s↔ Dos280/raylib-python-ctyp  raylib-php 3.5 PHP Zlib https↔ ://github.↔ com/joseph-mont anez/raylib raylib-phpcpp 3.5 PHP Zlib https↔ ://github.↔ com/oraoto/raylib-phpcpp  raylibr 4.0 R MIT https↔ ://github.↔ com/jeroenjanssens/raylib raylib-rs 3.5 Rust Zlib https↔ ://github.↔				1	://github.↔
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raylib-python-ctypes       4.2       Python       MIT       https↔ com/s↔ com/s↔ Dos280/raylib-python-ctyp         raylib-php       3.5       PHP       Zlib       https↔ com/joseph-montanez/raylib         raylib-phpcpp       3.5       PHP       Zlib       https↔ com/oraoto/raylib-phpcpp         raylibr       4.0       R       MIT       https↔ com/jeroenjanssens/raylib         raylib-rs       3.5       Rust       Zlib       https↔ com/jeroenjanssens/raylib         raylib-rs       3.5       Rust       Zlib       https↔ com/jeroenjanssens/raylib				1	
://github.←  com/s←  Dos280/raylib-python-ctype    Taylib-php   3.5   PHP   Zlib   https←  ://github.←  com/joseph-montanez/raylic    raylib-phpcpp   3.5   PHP   Zlib   https←  ://github.←  com/oraoto/raylib-phpcpp   raylibr   4.0   R   MIT   https←  ://github.←  com/jeroenjanssens/raylib   raylib-rs   3.5   Rust   Zlib   https←  ://github.←  ://github.←    ://	1			+ AIT	
com/s←   Dos280/raylib-python-ctype   Taylib-php   3.5   PHP   Zlib   https←   ://github.←   com/joseph-montanez/raylide   com/joseph-montanez/raylide   raylibr   4.0   R   MIT   https←   ://github.←   com/jeroenjanssens/raylide   raylibrs   3.5   Rust   Zlib   https←   ://github.←   ://githu	raylib-python-ctypes	4.2	Python	MIII	-
Taylib-php   3.5   PHP   Zlib   https←   ://github.←   com/joseph-montanez/raylii   raylib-phpcpp   3.5   PHP   Zlib   https←   ://github.←   com/oraoto/raylib-phpcpp   raylibr   4.0   R   MIT   https←   ://github.←   com/jeroenjanssens/raylib   raylib-rs   3.5   Rust   Zlib   https←   ://github.←   ://github.←   com/jeroenjanssens/raylib   https←   ://github.←   ://github.←				1	_
raylib-php         3.5         PHP         Zlib         https← ://github.← com/joseph-montanez/raylii raylib-phpcpp           raylib-phpcpp         3.5         PHP         Zlib         https← ://github.← com/oraoto/raylib-phpcpp           raylibr         4.0         R         MIT         https← ://github.← com/jeroenjanssens/raylib           raylib-rs         3.5         Rust         Zlib         https← ://github.← ://github.←				1	
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raylib-phpcpp         3.5         PHP         Zlib         https←         ://github.←           com/oraoto/raylib-phpcpp         raylibr         A.0         R         MIT         https←         ://github.←           raylib-rs         3.5         Rust         Zlib         https←         ://github.←				1	com/joseph-montanez/raylik
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raylibr         4.0         R         MIT         https←         ://github. ←           com/jeroenjanssens/raylib           raylib-rs         3.5         Rust         Zlib         https←         ://github. ←	ומיווט אייאיטרי	0.0			-
raylibr         4.0         R         MIT         https←         ://github.←           ://github.←         com/jeroenjanssens/raylib           raylib-rs         3.5         Rust         Zlib         https←         ://github.←				1	_
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://github.↔	raylib-rs	3.5	Rust	Zlib	https↔
	-			ſ	_
				1	com/deltaphc/raylib-rs

name	raylib version	language	license	repo
Relib	3.5	ReCT	?	https↔
				://github.↔
				com/RedCube↔
				Dev-Byte↔
				Space/Relib
racket-raylib	4.0	Racket	MIT/Apache-	https↔
			2.0	://github.↔
				com/eutro/racket-raylib
raylib-swift	4.0	Swift	MIT	https←
				://github.↔
				com/STREGAs↔
				Gate/Raylib
raylib-scopes	auto	Scopes	MIT	https←
				://github.←
				com/salotz/raylib-scopes
raylib-smallBasic	4.1-dev	SmallBASIC	GPLv3	https↔
•				://github.↔
				com/smallbasic/smallbasic.
				plugins/tree/master/raylib
raylib-umka	4.2	Umka	Zlib	https↔
.,				://github.↔
				com/robloach/raylib-umka
raylib.v	4.2	V	Zlib	https↔
,		·		://github.↔
				com/irishgreencitrus/raylib
				V
raylib-vapi	4.2	Vala	Zlib	https↔
				://github.↔
				com/lxmcf/raylib-vapi
raylib-wren	4.0	Wren	ISC	https↔
·				://github.↔
				com/↔
				TSnake41/raylib-wren
raylib-zig	4.2	Zig	MIT	https↔
				://github.↔
				com/Not-↔
				Nik/raylib-zig
raylib.zig	4.2	Zig	MIT	https↔
, ,				://github.↔
				com/ryupold/raylib.↔
				zig
hare-raylib	auto	Hare	Zlib	https↔
•				://git.sr.↔
				ht/~evantj/hare-raylib
raylib-sunder	auto	Sunder	0BSD	https↔
,				://github.↔
				com/ashn-dot-dev/raylib-sund
rayed-bqn	auto	BQN	MIT	https↔
/		— z-·		://github.↔
				com/Brian-↔
				ED/rayed-bqn
				1

### 1.0.2 Utility Wrapers

These are utility wrappers for specific languages, they are not required to use raylib in the language but may adapt the raylib API to be more inline with the language's pardigm.

name	raylib version	language	license	repo
raylib-cpp	4.2	C++	Zlib	https://github.↔
				com/robloach/raylib-cpp
claylib	4.2	Common Lisp	Zlib	https://github.↔
				com/defun-games/claylib

### 1.0.3 Older or Unmaintained Language Bindings

These are older raylib bindings that are more than 2 versions old or have not been maintained.

name	raylib version	language	repo
raylib-cppsharp	2.5	C#	https://github.↔
			com/phxvyper/raylib-cppsharp
RaylibFS	2.5	F#	https://github.↔
			com/dallinbeutler/↔
			RaylibFS
raylib_d	2.5	D	https://github.com/↔
			Sepheus/raylib_d
bindbc-raylib	3.0	D	https://github.↔
			com/o3o/bindbc-raylib
go-raylib	3.5	Go	https://github.↔
			com/chunqian/go-raylib
raylib-goplus	2.6-dev	Go	https://github.com/↔
			Lachee/raylib-goplus
ray-go	2.6-dev	Go	https://github.↔
			com/hecate-tech/ray-go
raylib-luamore	3.0	Lua	https://github.com/↔
			HDPLocust/raylib-luamore
LuaJIT-Raylib	2.6	Lua	https://github.com/↔
			Bambofy/LuaJIT-Raylib
raylib-lua-sol	2.5	Lua	https://github.↔
			com/Rob←
			Loach/raylib-lua-sol
raylib-lua-ffi	2.0	Lua	https://github.↔
			com/raysan5/raylib/issues/693
raylib-lua	1.7	Lua	https://github.↔
			com/raysan5/raylib-lua
raylib-nelua	3.0	Nelua	https://github.com/↔
			Andre-LA/raylib-nelua
raylib-nim	2.0	Nim	https://github.com/↔
			Skrylar/raylib-nim
raylib-Nim	1.7	Nim	https://gitlab.↔
			com/define-private-public/rayli
			Nim
nim-raylib	3.1-dev	Nim	https://github.↔
			com/tomc1998/nim-raylib
raylib-haskell	2.0	Haskell	https://github.com/↔
			DevJac/raylib-haskell

name	raylib version	language	repo
raylib-cr	2.5-dev	Crystal	https://github.com/↔ AregevDev/raylib-cr
raylib.cr	2.0	Crystal	https://github.↔ com/sam0x17/raylib.cr
cray	1.8	Crystal	https://gitlab.com/↔ Zatherz/cray
raylib-pas	3.0	Pascal	https://github.↔ com/tazdij/raylib-pas
raylib-pascal	2.0	Pascal	https://github.← com/drezgames/raylib-pascal
Graphics-Raylib	1.4	Perl	https://github.↔ com/athreef/↔ Graphics-Raylib
raylib-ruby	2.6	Ruby	https://github.↔ com/a0/raylib-ruby
raylib-ruby-ffi	2.0	Ruby	https://github.com/↔ D3nX/raylib-ruby-ffi
raylib-mruby	2.5-dev	mruby	https://github.↔ com/lihaochen910/raylib-mruk
raylib-java	2.0	Java	https://github.com/↔ XoanaIO/raylib-java
clj-raylib	3.0	Clojure	https://github.↔ com/lsevero/clj-raylib
QuickJS-raylib	3.0	QuickJS	https://github.↔ com/sntg-p/Quick↔ JS-raylib
raylib-duktape	2.6	JavaScript (Duktape)	https://github.↔ com/Rob↔ Loach/raylib-duktape
raylib-v7	3.5	JavaScript (v7)	https://github.com/↔ Rabios/raylib-v7
raylib-chaiscript	2.6	ChaiScript	https://github.↔ com/Rob↔ Loach/raylib-chaiscript
raylib-squirrel	2.5	Squirrel	https://github.↔ com/Rob↔ Loach/raylib-squirrel
racket-raylib-2d	2.5	Racket	https://github.↔ com/arvyy/racket-raylib-2d
raylib-php-ffi	2.4-dev	РНР	https://github.↔ com/oraoto/raylib-php-ffi
raylib-haxe	2.4	Haxe	https://github.↔ com/ibilon/raylib-haxe
ringraylib	2.6	Ring	https://github.↔ com/ringpackages/ringraylib
raylib-scm	2.5	Chicken Scheme	https://github.↔ com/yashrk/raylib-scm
raylib-chibi	2.5	Chibi-Scheme	https://github.↔ com/Vincent↔ Toups/raylib-chibi
raylib-gambit-scheme	3.1-dev	Gambit Scheme	https://github.← com/georgjz/raylib-gambit-so
Euraylib	3.0	Euphoria	https://github.↔ com/gAndy50/Euraylib

name	raylib version	language	repo
raylib-odin	3.0	Odin	https://github.↔
			com/kevinw/raylib-odin
vraylib	3.5	V	https://github.↔
			com/waotzi/vraylib
raylib-vala	3.0	Vala	https://code.↔
			guddler.↔
			uk/mart/raylibVapi
raylib-jai	3.1-dev	Jai	https://github.↔
			com/kujukuju/raylib-jai
ray.zig	2.5	Zig	https://github.↔
			com/Bit↔
			Puffin/zig-raylib-experiments
raylib-Ada	3.0	Ada	https://github.↔
			com/mimo/raylib-Ada
jaylib	3.0	Janet	https://github.↔
			com/janet-lang/jaylib
raykit	?	Kit	https://github.com/↔
			Gamerfiend/raykit
ray.mod	3.0	BlitzMax	https://github.↔
			com/bmx-ng/ray.mod
raylib-mosaic	3.0	Mosaic	https://github.↔
			com/pluckyporcupine/raylib-mosa
raylib-xdpw	2.6	XD Pascal	https://github.↔
			com/vtereshkov/raylib-xdpw
raylib-carp	3.0	Carp	https://github.↔
			com/pluckyporcupine/raylib-car
raylib-fb	3.0	FreeBasic	https://github.com/↔
			IchMagBier/raylib-fb
raylib-purebasic	3.0	PureBasic	https://github.com/↔
			D-a-n-i-l-o/raylib-purebasic
raylib-ats2	3.0	ATS2	https://github.↔
			com/mephistopheles-8/raylib-at
raylib-beef	3.0	Beef	https://github.com/↔
			M0n7y5/raylib-beef
raylib-never	3.0	Never	https://github.↔
•			com/never-lang/raylib-never
raylib.cbl	2.0	COBOL	code examples

Missing some language or wrapper? Feel free to create a new one! :)

Usually, raylib bindings follow the convention: raylib-{language}

Let me know if you're writing a new binding for raylib, I will list it here!

## **Chapter 2**

## **Contributing to raylib**

Hello contributors! Welcome to raylib!

Do you enjoy raylib and want to contribute? Nice! You can help with the following points:

- C programming Can you write/review/test/improve the code?
- Documentation/Tutorials/Example Can you write some tutorial/example?
- Porting to other platforms Can you port/adapt/compile raylib on other systems?
- Web Development Can you help with the website?
- Testing Can you find some bugs in raylib?

This document contains a set of guidelines to contribute to the project. These are mostly guidelines, not rules. Use your best judgement, and feel free to propose changes to this document in a pull request.

#### 2.0.1 raylib philosophy

- raylib is a tool to ENJOY videogames programming, every function in raylib is designed as a mini-tutorial on itself.
- raylib is **SIMPLE** and **EASY-TO-USE**, I tried to keep it compact with a small set of functions, if a function is too complex, better not including it.
- raylib is open source and free; educators and institutions can use this tool to TEACH videogames programming completely for free.
- raylib is collaborative; contribution of tutorials / code examples / bug fixes / code comments are highly appreciated.
- raylib's license (and its external libs respective licenses) allow using raylib on commercial projects.

#### 2.0.2 Some interesting reads to start with

- · raylib history
- · raylib architecture
- [raylib license](LICENSE)
- · raylib roadmap

raylib Wiki contains some information about the library and is open to anyone for edit. Feel free to review it if required, just take care not to break something.

10 Contributing to raylib

#### 2.0.3 raylib C coding conventions

Despite being written in C, raylib does not follow the standard Hungarian notation for C, it follows Pascal-case/camel-case notation, more common on C# language. All code formatting decisions have been carefully taken to make it easier for students/users to read, write and understand code.

Source code is extensively commented for that purpose, raylib primary learning method is:

```
Learn by reading code and examples
```

For detailed information on building raylib and examples, please check raylib Wiki.

#### 2.0.4 Opening new Issues

To open new issue for raylib (bug, enhancement, discussion...), just try to follow these rules:

- · Make sure the issue has not already been reported before by searching on GitHub under Issues.
- If you're unable to find an open issue addressing the problem, open a new one. Be sure to include a title and clear description, as much relevant information as possible, and a code sample demonstrating the unexpected behavior.
- If applies, attach some screenshot of the issue and a .zip file with the code sample and required resources.
- On issue description, add a brackets tag about the raylib module that relates to this issue. If don't know which module, just report the issue, I will review it.
- You can check other issues to see how is being done!

#### 2.0.5 Sending a Pull-Request

- Make sure the PR description clearly describes the problem and solution. Include the relevant issue number
  if applicable.
- Don't send big pull requests (lots of changelists), they are difficult to review. It's better to send small pull requests, one at a time.
- Verify that changes don't break the build (at least on Windows platform). As many platforms where you can test it, the better, but don't worry if you cannot test all the platforms.

#### 2.0.6 Contact information

If you have any doubt, don't hesitate to <u>contact</u> me!. You can write me a direct mail but you can also contact me on the following networks:

- raylib Discord A direct communication channel for project discussions.
- raylib twitter My personal twitter account, I usually post about raylib, you can send me PMs.
- raylib reddit A good place for discussions or to ask for help.
- raylib web On top-right corner there is a bunch of networks where you can find me.

Thank you very much for your time! :)

## **Chapter 3**

# **C Coding Style Conventions**

Here it is a list with some of the code conventions used by raylib:

Code element	Convention	Example	
Defines	ALL_CAPS	#define PLATFORM_DESKTOP	
Macros	ALL_CAPS	#define MIN(a,b) (((a)<(b))?(a):(b))	
Variables	lowerCase	<pre>int screenWidth = 0;, float target↔ FrameTime = 0.016f;</pre>	
Local variables	IowerCase	<pre>Vector2 playerPosition = { 0 };</pre>	
Global variables	IowerCase	bool windowReady = false;	
Constants	IowerCase	const int maxValue = 8;	
Pointers	MyType *pointer	Texture2D *array = NULL;	
float values	always x.xf	float gravity = 10.0f	
Operators	value1*value2	int product = value*6;	
Operators	value1/value2	int division = value/4;	
Operators	value1 + value2	int sum = value + 10;	
Operators	value1 - value2	int res = value - 5;	
Enum	TitleCase	enum TextureFormat	
Enum members	ALL_CAPS	PIXELFORMAT_UNCOMPRESSED_R8G8B8	
Struct	TitleCase	struct Texture2D, struct Material	
Struct members	IowerCase	texture.width, color.r	
Functions	TitleCase	<pre>InitWindow(),LoadImageFromMemory()</pre>	
Functions params	IowerCase	width, height	
Ternary Operator	(condition)? result1 : result2	<pre>printf("Value is 0: %s", (value == 0)? "yes": "no");</pre>	

Some other conventions to follow:

- · ALWAYS initialize all defined variables.
- Do not use TABS, use 4 spaces instead.
- · Avoid trailing spaces, please, avoid them
- Control flow statements always are followed by a space:

```
if (condition) value = 0;
while (!WindowShouldClose())
{
}
```

```
for (int i = 0; i < NUM_VALUES; i++) printf("%i", i);
// Be careful with the switch formatting!
switch (value)
{
    case 0:
    {
      } break;
      case 2: break;
      default: break;
}</pre>
```

• All conditions checks are always between parenthesis but not boolean values:

```
if ((value > 1) && (value < 50) && valueActive)
{
}</pre>
```

• When dealing with braces or curly brackets, open-close them in aligned mode:

```
void SomeFunction()
{
    // TODO: Do something here!
}
```

If proposing new functions, please try to use a clear naming for function-name and functions-parameters, in case of doubt, open an issue for discussion.

### 3.1 Files and Directories Naming Conventions

- Directories will be named using snake\_case: resources/models, resources/fonts
- Files will be named using snake\_case: main\_title.png, cubicmap.png, sound.wav

NOTE: Avoid any space or special character in the files/dir naming!

### 3.2 Games/Examples Directories Organization Conventions

- Data files should be organized by context and usage in the game, think about the loading requirements for data and put all the resources that need to be loaded at the same time together.
- Use descriptive names for the files, it would be perfect if just reading the name of the file, it was possible to know what is that file and where fits in the game.
- Here it is an example, note that some resources require to be loaded all at once while other require to be loaded only at initialization (gui, font).

```
resources/audio/fx/long_jump.wav
resources/audio/music/main_theme.ogg
resources/screens/logo/logo.png
resources/screens/title/title.png
resources/screens/gameplay/background.png
resources/characters/player.png
resources/characters/enemy_slime.png
resources/common/font_arial.ttf
resources/common/gui.png
```