Radare2 Cheatsheet

Basic commands

s seek to a different address
b change block size
q quit
pd/px/p8 print disasm/hexdump/bytes
pf print formatted
f name=addr set flag to the given address
-j enter the Javascript repl
?*~str show commands with the given string

Command prefixes

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Command suffixes

j														$\dots \dots json$
q														quiet (simplest output)
*														radare2 commands
,														table format
?														. help for the command

Command modifiers

>	redirect output to file or \$internalfile
0	temporal seek
@@	repeat on every flag

Binary information

ie	entrypoint
is/ii/iE	symbols/imports/exports

Patching

WX					7	W1	i	te	ŀ	ıe	x	p	a	ir	\mathbf{S}	(W	V	f	or	endian values)
wa																					write assembly
WO																					write in block
wtf										7	W]	ri	tε	9 1	tc)	fi	le	,	(u	se wtff for @@)

Search

/ lib search for string
/x 9090 hexpairs
/ad ret instructions with ret
/m search for known magic headers
w lob @@/ lib write lob on every lib

Analysis and xrefs

af analyze function
aa analyze all program (aaa, aaaa,)
afn/afvn rename a function/variable
afl list functions
axt list xrefs to given address

Disassembly

pdf/pdr	disassemble function/recursive
pdc	pseudo-decompilation (see pdd/pdg)
pd/pi	print disassembly/instructions
Cd	define as data
CC	add a comment in code

Emulation (ESIL)

aeim initialize emulation registers + stack
ae emulate ESIL expression
aes step into (see ds, but also aesu?)
for register manipulation (see dr)

Debugging

(r2 -d bin)

db	set/manage breakpoints
dbt	backtrace
ds/dso	single step/step over
dr get/	set register values (drr for telescoped)
doo/ood	restart process

Visual mode (V for visual, v for panels, ! to toggle)

pP rotate modes (<tab> for submodes)</tab>
s/S perform step/step over
b browse (flags, config, classes, symbols,)
seek to entrypoint
i/A insert mode for hexa/write assembly
V_{-} hud mode to seek flags while typing
Vd1 visual bit editor
n/N seek to next/previous scr.nkey thing
x/X view xrefs/refs
hjkl move cur (HJKL for faster movement)

Graph (VV comand, agfv)

agn/age/aggv	custom handmade graphs
t/f/u	follow true/false branch, undo

Settings (e command)