

Quil 1.0.0

Color

Creating & Reading	alpha blend-color blue brightness color color-mode green hue lerp-color red saturation
Loading & Displaying	no-tint
Pixels	blend
Setting	background background-float background-image background-int fill fill-float fill-int no-fill no-stroke stroke stroke-float stroke-int

Data

Conversion	binary hex unbinary unhex
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Environment

current-frame-rate cursor cursor-image focused frame-count frame-rate height no-cursor screen-height screen-width width

Image

Loading & Displaying	create-image image image-mode load-image mask-image request-image tint tint-float tint-int
Pixels	copy display-filter get-pixel load-pixels pixels set-image set-pixel update-pixels

Input

Files	create-input create-input-raw load-bytes load-strings
Keyboard	key-code key-pressed? raw-key
Mouse	mouse-button mouse-state mouse-x mouse-y pmouse-x pmouse-y
Time & Date	day hour millis minute month seconds year

Lights, Camera

Camera	begin-camera camera end-camera frustum ortho perspective print-camera print-projection
Coordinates	model-x model-y model-z screen-x screen-y screen-z
Lights	ambient-light directional-light light-falloff light-specular lights no-lights normal point-light spot-light
Material Properties	ambient ambient-float ambient-int emissive emissive-float emissive-int shininess specular

Math

Calculation	abs abs-float abs-int ceil constrain constrain-float constrain-int dist exp lerp log mag map-range norm pow round sq sqrt
Random	noise noise-detail noise-seed random random-seed
Trigonometry	acos asin atan atan2 cos degrees radians sin tan
Trig Constants	PI HALF-PI THIRD-PI QUARTER-PI TWO-PI DEG-TO-RAD RAD-TO-DEG

Output

Files	begin-raw begin-record create-output end-raw end-record
Image	save save-frame

Rendering

create-graphics hint

Shape

2D Primitives	arc ellipse line point quad rect triangle
3D Primitives	box sphere sphere-detail
Attributes	ellipse-mode no-smooth rect-mode smooth stroke-cap stroke-join stroke-weight
Curves	bezier bezier-detail bezier-point bezier-tangent curve curve-detail curve-point curve-tangent curve-tightness
Loading & Displaying	load-shape shape shape-mode
Vertex	begin-shape bezier-vertex curve-vertex end-shape texture texture-mode vertex

State

set-state! state

Structure

delay-frame exit no-loop pop-style push-style redraw start-loop

Transform

Utility Macros	apply-matrix pop-matrix print-matrix push-matrix reset-matrix rotate rotate-x rotate-y rotate-z scale shear-x shear-y translate with-rotation with-translation
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Typography

Attributes	text-align text-leading text-mode text-size text-width
Loading & Displaying	available-fonts create-font font-available? load-font text text-char text-font text-num
Metrics	text-ascent text-descent

Sketch

Creation	sketch defsketch
Control	sketch-stop sketch-start sketch-close
State	sketch-state
Config Keywords	:title :size :renderer
Draw Callback Keywords	:setup :draw
Mouse Callback Keywords	:mouse-pressed :mouse-released :mouse-moved :mouse-dragged :mouse-entered :mouse-exited :mouse-clicked
Keyboard Callback Keywords	:key-pressed :key-released :key-typed
Window Callback Keywords	:focus-gained :focus-lost

Reflection

API Exploration	show-cats show-fns show-meths
Version	processing-version

Helper Namespaces (not included by default)

quil.helpers.calc	mul-add mode-range
quil.helpers.drawing	line-join-points
quil.helpers.seqs	range-incl indexed-range-incl indexed-range steps cycle-between tap seq->stream tally perlin-noise-seq