Key

no notes: same in OF as Processing

!: new to OF 007

~: very similar, but not equivalent

 \mathbf{X} : not needed in OF due to different design, or external libraries like cmath

?: no corollary in OF

Structure	Shape	Color
[] (array access) = (assign)	PShape?	Setting Color setting in OF uses a different
catch?	2D Primitives	style than Processing.
class	arc()?	background() ofBackground()
, (comma)	ellipse() of Ellipse()	colorMode()?
// (comment)	line() ofLine()	fill() ofFill() and ofSetColor()
{} (curly braces)	point()span class="missing">?	noFill() ofNoFill()
delay() ofSleepMillis()	quad()?	noStroke() of Fill()
/** */ (doc comment)	rect() ofRect()	stroke() ofNoFill() and ofSetColor()
. (dot)	triangle() of Triangle()	
draw()	transfer of france	Creating & Reading
exit()	Curves	alpha() ofColor::a
extends:	bezierTangent() ofBezierTangent()	blendColor()?
false	bezier() ofBezier()	blue() ofColor::b
final const	bezierDetail()	brightness()
implements X	ofSetCurveResolution()	ofColor::getBrightness()
import #include	<pre>bezierPoint() ofBezierPoint()</pre>	color() ofColor()! or
loop() ?	curveTightness()?	ofColor::fromHsb() or
/* */ (multiline comment)	curve() ofCurve()	ofColor::fromHex()
new	curveDetail()	green() ofColor::g
noLoop()?	ofSetCurveResolution()	hue()! ofColor::getHue()
null NULL	<pre>curvePoint() ofCurveVertex()</pre>	lerpColor()! ofColor::lerp()
() (parentheses)	<pre>curveTangent() ofCurveTangent()</pre>	red() ofColor::r
popStyle() ofPopStyle()		saturation()!
private	3D Primitives	ofColor::getSaturation()
public	box()! ofBox()	
<pre>pushStyle() ofPushStyle()</pre>	sphere()! ofSphere()	
redraw()?	sphereDetail()!	Image
return	ofSetSphereResolution()	
; (semicolon)	•	PImage of Image
setup()	Attributes	createImage()~ofImage::allocate()
size() ofSetupOpenGL() and	ellipseMode()?	
ofSetWindowShape()	noSmooth() ofEnableSmoothing()	Loading & Displaying
static	rectMode() ofSetRectMode()	image() ofImage::draw()
$\operatorname{super} \mathbf{X}$	smooth() of Enable Smoothing()	imageMode()~ofImage::setAnchorPercent()
this	strokeCap()?	loadImage() ofImage::loadImage()
true	strokeJoin()?	noTint() ofSetColor(255) and
try?	strokeWeight() ofSetLineWidth()	ofImage::draw()
void		requestImage()?

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Environment	Vertex	tint() ofSetColor() and
	<pre>beginShape()~ofBeginShape()</pre>	ofImage::draw()
cursor() glutSetCursor()	<pre>bezierVertex() ofBezierVertex()</pre>	
frameRate ofSetFrameRate()	<pre>curveVertex() ofCurveVertex()</pre>	Pixels
focused?	endShape()~ofEndShape()	blend()?
frameCount ofGetFrameNum()	texture() ofTexture::bind()	copy()?
frameRate() ofGetFrameRate()	textureMode() ofEnableArbTex(),	filter()?
height ofGetHeight()	ofDisableArbTex()	<pre>get()! ofImage::getPixel()</pre>
noCursor() ofHideCursor()	vertex() ofVertex()	(tentative)
onlineX	- "	loadPixels()?
screen of Get Screen Width ()	Loading & Displaying	pixels[] ofImage::getPixels()
width ofGetWidth()	loadShape()?	set()! ofImage::setPixel()
	shape()?	(tentative)
Data	shapeMode()?	updatePixels() ofImage::update()
Primitive	Input	Rendering
boolean	-	_
color ofColor	Mouse	PGraphics?
byte unsigned char	mousePressed!	createGraphics()?
char	ofGetMousePressed()	hint()?
double	mouseButton!	
float	ofGetMousePressed(button)	
int	mouseClicked()?	Typography
long	mouseDragged()	DEant of Europe and
Composite	mouseMoved()	PFont ofTrueTypeFont
ArrayList list	mousePressed()	Loading & Displaying
Array vector	mouseReleased()	createFont()
HashMap map	mouseX	ofTrueTypeFont::loadFont()
Object X	mouseY	loadFont()X
String string	pmouseX?	text()
XMLElement	pmouseY?	ofTrueTypeFont::drawString() or
		ofDrawBitmapString()
Conversion	Keyboard	textFont()?
boolean()! ofToBool()	keyPressed! ofGetKeyPressed()	
binary()! ofToBinary()	key	Attributes
byte()! ofToChar()	keyCode?	textAlign()?
char()! ofToChar()	keyPressed()	textLeading()
float() ofToFloat()	keyReleased()	ofTrueTypeFont::getLineHeight()
hex()! ofToHex()	keyTyped()	textMode()~ofTrueTypeFont::drawString()
int() ofToInt()		and
str() ofToString()	Files	ofTrueTypeFont::drawStringAsShapes()
unbinary()! ofBinaryTo*()	BufferedReader~ofBuffer	textSize()?
[Int,Char,Float,String]	createInput()?	textWidth()
unhex()! ofHexTo*()	createReader()?	ofTrueTypeFont::stringWidth()
[Int,Char,Float,String]	loadBytes()?	-
- , , , _,	loadStrings()?	Metrics
String Functions	open()?	textAscent()?
~		

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join()! ofJoinString()	selectFolder()?	textDescent()?
match()?	selectInput()?	textDescent().
-	selectifiput():	
matchAll()? nf() ofToString()	Web	Math
	link() ofLaunchBrowser()	
nfc()?		PVector of Point or of Vec*f
nfp()?	param()X	
nfs()?	status()X	Operators
split() of Split String()	Time 0 Date	+= (add assign)
splitTokens() ofSplitString()	Time & Date	+ (addition)
trim()?	day() ofGetDay()	(decrement)
	hour() ofGetHours()	/ (divide)
Array Functions	millis() ofGetElapsedTimeMillis() minute() ofGetMinutes()	/= (divide assign)
Lots of these can be done with STL,	month() ofGetMonth()	++ (increment)
but aren't wrapped by OF.	second() ofGetSeconds()	- (minus)
append()?	year() ofGetYear()	% (modulo)
arrayCopy()?	year() orderrear()	* (multiply)
concat()?		*= (multiply assign)
expand()?	Output	-= (subtract assign)
reverse()?		
shorten()?	Text Area	Bitwise Operators
sort()?	print()X cout	& (bitwise AND)
splice()?	println()X cout + endl	(bitwise OR)
subset()?		<< (left shift)
	Image	>> (right shift)
Control	save() ofSaveScreen()	
Control	<pre>saveFrame() ofSaveFrame()</pre>	Calculation
Polotional On anatoms		abs()X fabsf
Relational Operators	Files	ceil()X ceilf
== (equality) > (greater than)	PrintWriter?	constrain() ofClamp() or CLAMP()
>= (greater than or equal to)	beginRaw()?	macro
!= (inequality)	beginRecord()?	dist() of Dist() or
<= (less than or equal to)	createOutput()?	ofxVec*f::distance()
< (less than)	createWriter()?	exp()X expf
(ICSS triair)	endRaw()?	floor()X floorf
Iteration	endRecord()?	lerp() of Lerp() or
for	saveBytes()?	ofxVec*f::interpolate()
while	saveStream()?	$\log(\mathbf{X}\log \mathbf{I})$
Willie	saveStrings()?	mag() ofxVec*f::length()
Conditionals	selectOutput()?	map() ofMap()
break	selectoutput().	max() MAX() macro
case		min() MIN() macro norm() ofNormalize() or
?: (conditional)	Transform	ofxVec*f::normalize()
continue		pow()X powf
default	applyMatrix()?	•
else	popMatrix() ofPopMatrix()	round()X roundf
if	printMatrix()?	sq()?
switch()	<pre>pushMatrix() ofPushMatrix()</pre>	$\operatorname{sqrt}(\mathbf{X}\operatorname{sqrtf})$
	resetMatrix()?	

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Trigonometry
Logical Operators
                                    rotate() ofRotate()
&& (logical AND)
                                    rotateX() ofRotateX()
                                                                        acos()X acosf
! (logical NOT)
                                    rotateY() ofRotateY()
                                                                        asin()X asinf
|| (logical OR)
                                    rotateZ() ofRotateZ()
                                                                        atan()X atanf
                                    scale() ofScale()
                                                                        atan2()X atan2f
                                    skewX()?
                                                                        cos()X cosf
                                    skewY()?
                                                                        degrees() ofRadToDeg()
                                    translate() ofTranslate()
                                                                        radians() ofDegToRad()
                                                                        sin()X sinf
                                                                        tan()X tanf
                                    Lights, Camera
                                                                        Random
                                    Lights
                                                                        noise() of Noise()
                                    ambientLight()?
                                                                        noiseDetail()?
                                    directionalLight()?
                                                                        noiseSeed()?
                                    lightSpecular()?
                                                                        random()~!ofRandom()
                                    lightFalloff()?
                                                                        randomSeed() ofSeedRandom()
                                    lights()! ofLight
                                    noLights()?
                                    normal()?
                                                                        Constants
                                    pointLight()?
                                                                        HALF_PI (1.57079...)
                                    spotLight()?
                                                                        PI (3.14159...)
                                    Camera
                                                                        QUARTER_PI (0.78539...)?
                                                                        TWO_PI (6.28318...)
                                    beginCamera()?
                                    camera()?
                                    endCamera()?
                                    frustum()?
                                    ortho()~ofSetupScreenOrtho()
                                    perspective() ~ ofSetupScreenPerspective()
                                    printCamera()?
                                    printProjection()?
                                    Coordinates
                                    modelX()?
                                    modelY()?
                                    modelZ()?
                                    screenX()?
                                    screenY()?
                                    screenZ()?
                                    Material Properties
                                    ambient()?
                                    emissive()?
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shininess()? specular()?