boytchev.github.io/suica

MISC

obi.clone

allObjects()

findPosition (event)

objectPosition (local)

radians (degrees)

degrees (radians)

random (from. to) random ([value,...])

randomln (object)

randomOn (object)

obi.stvle ({name: value, ...})

findObject (event, interactive)

findObject (event, [object, ...])

findObjects (event, interactive)

findObjects (event, [object, ...])

screenPosition (local, alobal)

its

BASIC OBJECTS circle (center, size, color)

cone (center, size, color) cube (center, size, color)

cylinder (center, size, color) line (center/from, to, color)

point (center, size, color)

polygon (count, center, size, color) **prism** (count, center, size, color)

pyramid (count, center, size, color)

sphere (center, size, color)

square (center, size, color)

BASIC PROPERTIES

.center = [.x, .y, .z]

.color = "colorname" / 0xFFFFFF / $(r,g,b)^{0...1}$ = **rgb** (r,q,b)²⁵⁵ / **hsl** (h³⁶⁰,s¹⁰⁰,l¹⁰⁰)

.count = count / [count, count]

.image = drawing / "filename" / image ("filename")

.images = .count / [count, count]

.size = width / [.width, .height, .depth] .spin = spinH / [.spinH, .spinV, .spinT, .spinS]

.visible / .hidden = true / ves / false / no

.wireframe = true / yes / false / no

ADVANCED OBJECTS construct (expression, size, color)

convex (src², size, color)

aroup (object, object, ...) .add (object, object, ...)

model (filename, center, size)

model.save (filename, [object, object, ...])

surface (center, curve³, count, size, color)

text3d (text, font¹, center, size, color)

tube (center, curve², radius, count, size, color)

extrude (shape, center, size, color)

.radius .offset .count^{1,2}

spline (src², closed, interpolating)

(src⁵, param, param)

splane (src³, closed^{1,2}, interpolating^{1,2}) (src4, param, param)

ADVANCED PROPERTIES

.closed = bool / [bool, bool]2 .curve $^2 = [point, ...] / spline / f(u)$

> $^{3} = [[point, ...], ...] / splane / f(u,v)$ A+B, A-B, A*B, (...)

.expression = "string" .font| = "fontname.json"

.interpolating = $bool^1 / [bool, bool]^2$

.src = $[point, ... point]^2 / f(u)^5$

 $= [[point, ...], ... [point, ...]]^3 / f(u,v)^4$

vertices.

.threejs = THREE.Mesh

.material = THREE.Material

.geometry = THREE.BufferGeometry

.intersectData

.randomln

.randomOn

SUICA

background (color)

oxyz (size, color)

demo (distance, altitude, speed)

orbit (distance, altitude, speed)

lookAt (from, to, up)

perspective (near, far, fov) orthographic (near, far)

fullWindow ()

fullScreen () stereo (distance)

anaglyph (distance)

vr ()

capture (filename, time, fps, format, skipframes)

SUICA VERSION, SUICA DATE

EVENTS

onPointerEnter.onPointerLeave.onPointerMove. onPointerDown, onPointerUp, onClick, onTime, onLoad

obj.addEventListener (eventName, eventHandler) obj.removeEventListener (eventName)

obj.eventName = eventHandler

function pointerEventHandler (event) { ... } function timeEventHandler (time, dTime) { ... } function loadEventHandler (object) { ... }

proactive ()

DRAWINGS & SHAPES

shape (count)

curveTo (m,, m,, x, y)

strake (calor, width, closed)

fill (color)

fillText (x, y, text, color, font)

clear (color)

LMS

scorm

.api, .score, .studentName,.getValue (value) .setValue (name, value), .derandomize (seed)

shapes

drawing (width, height, color)

moveTo (x, y, x, y, ...)

lineTo (x, y, x, y, ...)

arc (x, y, radius, from, to, cw)

"bold 20px Courier"

shapes

BASIC OBJECTS

- <circle center size color ...>
- <cone center size color ...>
- <cube center size color ...>
- <cylinder center size color ...>
- center/from to color ...>
- <point center size color ...>
- <polygon count center size color ...>
- <prism count center size color ...>
- <pyramid count center size color ...>
- <sphere center size color ...>
- <square center size color ...>
 - <... id spin image images wireframe>

BASIC PROPERTIES

- center = "x, y, z"
- color = "colorname" / "OxFFFFFF", "r,g,b"
 - = "**rgb** (r,g,b)"²⁵⁵ / "**hsl** (h³⁶⁰,s¹⁰⁰,l¹⁰⁰)"
- count = "count" / "count, count"
- id = "string"
- image = "drawing" / "filename"
- images = "count" / "count, count"
- size = "width" / "width, height, depth"
- spin = "spinH" / "spinH, spinV, spinT, spinS"
- visible / hidden = "bool"
- wireframe = "bool"

SUICA

- **suica** width height background orientation proactive perspective orthographic fullWindow fullScreen stereo anadyph vr> ...
- <background color>
- <oxyz size color>
- <demo distance altitude speed>
- <orbit id distance altitude speed>
- <lackAt from to up>
- <perspective near far fov>
- <orthographic near far>
- <fullWindow>
- <fullScreen>
- <stereo distance>
- <anaglyph distance>
- <Vr>
- <capture filename time fps format skipframes>

ADVANCED OBJECTS

- <clone src1 center size color ...>
- <construct expression center size color>
- <convex src2 size color ...>
- <group center size color ...> ... </group>
- <model filename center size ...>
- <surface center curve³ count size color ...>
- <text3d text font | center size color ...>
- <tube center curve² radius count size color ...>
- <extrude shape center size color radius offset count^{1,2}>
- <splane src^{2,5} closed interpolating |>
- <splane src^{3,4} closed^{1,2} interpolating^{1,2}>
 - <... id spin image images wireframe>

ADVANCED PROPERTIES

- closed = "bool" / "bool, bool"2
- **curve**² = "point; ..." / "spline" / "func(u)"
 - 3 = "point; ... | ... " / "splane" / "func(u,v)"
- **expression** = "string" A+B, A-B, A*B, (...)
- **font**| = "fontname.json"
- interpolating = "bool" / "bool, bool"2
- src = "id" / "point; ..."² / "func(u)" ⁵
 - = "point; ... | ... "3 / "func(u,v)" 4
- interpolating vs approximating closed vs open, cw vs ccw

EVENTS

onPointerEnter, onPointerLeave, onPointerMove, onPointerDown, onPointerUp, onClick, onTime, onLoad

- <tag ... eventName="eventHandler">

DRAWINGS & SHAPES

- <drawing size color>
- <shape count>
- <moveTo point>
- lineTo_point>
- <curveTo m point>
- <arc point radius from to cw>
- <stroke color width closed>
- <fill color>
- <fillText point text color font>
- <clear color>
- point="x, y" or x="x" y="y"
 font="bold 20px Courier"