₩ WebsiteSetup
Beginner's essential
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CANVAS

CONSISTS OF 2 PARTS: CANVAS IS A COMPLEX ELEMENT THAT BASICALLY

HTML <canvas id="cnvs" width="600"

var ctx = c.getContext("..check types of content....."); var c = document.getElementById("cnv");

REQUIRED ATTRIBUTES FOR <CANVAS>

TYPES OF CONTENT

2D content

var ctx = canvas.getContext('2d');

To draw a rectangle:

clearRect(x, y, width, height) strokeRect(x, y, width, height)

closePath() Use Path methods

line loo

STYLES & COLORS

fillStyle = color

strokeStyle = color

neWidth = value

Fallback content

browser doesn't support canvas!</canvas> <canvas id="cnvs" width="600" height="300">Your

var ctx = canvas.getContext('webgl')

SHAPES

rect(x, y, width, height) fillRect(x, y, width, height)

To draw a path:

beginPath()

Path methods stroke()/fill()

quadraticCurveTo()

Transparency.

Option

bezierCurveTo()

globalAlpha = transparencyValue

IneCap = type



lineJoin = type







GRADIENTS: lineDashOffset = value

setLineDash(segments) getLineDash() miterLimit = value

createRadialGradient(x1, y1, r1, x2, y2, r2) createLinearGradient(x1, y1, x2, y2)

gradient.addColorStop(position, color)

createPattern(image, type)

shadowOffsetX = float

shadowOffsetY = float

shadowColor = color

CANVAS FILL RULES:

TEXT

DRAWING TEXT

strokeText(text, x, y [, maxWidth]) fillText(text, x, y [, maxWidth])

STYLING TEXT

textAlign = value

direction = value textBaseline = value

ADVANCED TEXT MEASUREMENT

IMAGES

CANVAS API CAN USE ANY OF THE FOLLOWING DATA

HTMLVideoElement

HTMLCanvasElement

from the same page:

from other domain:

Create images from scratch use another canvas element:

Using frames from a video <video></video> Embedding an image via data: url

DRAW AN IMAGE

drawlmage(image, x, y)

SCALE AN IMAGE

drawlmage(image, x, y, width, height)

drawlmage(image, sx, sy, sWidth, sHeight, dx, dy, dWidth,

ctx.msImageSmoothingEnabled = false; ctx.webkitlmageSmoothingEnabled = false;

ctx.mozlmageSmoothingEnabled = false; CONTROL IMAGE SCALING BEHAVIOR

TRANSFORMATIONS

rotate(angle) restore() translate(x, y)

setTransform(a, b, c, d, e, f) scale(x, y) transform(a, b, c, d, e, f)

reset Fransform()

COMPOSITING AND CLIPPING

globalCompositeOperation = typeclip()







source-out

ource-ove





destination over destination-in

source-ator





destination-out





destination-atop

ANIMATION

BASIC ANIMATION STEPS:

Clear the canvas Save the canvas state

Draw animated shapes

Restore the canvas state SCHEDULE UPDATES:

requestAnimationFrame(callback) setInterval(function, delay) setTimeout(function, delay

PIXEL MANIPULATION

drawlmage() putlmageData() getlmageData() create(mageData()

Saving images

Creates a PNG image canvas.toDataURL('image/png')

Creates a JPG image canvas.toDataURL('image/jpeg',

Creates a Blob object canvas.toBlob(callback, type,

HIT REGIONS AND ACCESSIBILITY

Hit regions (experimental)

CanvasRenderingContext2D.clearHitRegions() Focus ring (experimental): CanvasRenderingContext2D.removeHitRegion() CanvasRenderingContext2D.addHitRegion()

CanvasRenderingContext2D.scrollPathIntoView() USEFUL TIPS

CanvasRenderingContext2D.drawFocusifNeeded()

off-screen canvas Pre-render similar primitives or repeating objects on an

Avoid floating-point coordinates and use integers

Use multiple layered canvases for complex scenes Don't scale images in drawlmage

CSS for large background images Scaling canvas using CSS transforms

Batch canvas calls together Use the moz-opaque attribute (Gecko only)

Avoid unnecessary canvas state changes.
Render screen differences only, not the whole new state. Avoid text rendering whenever possible. Avoid the shadowBlur property whenever possible.

fillRect() vs. resizing the canvas) Try different ways to clear the canvas (clearRect() vs.

Be careful with heavy physics libraries instead of window.setInterval() With animations, use window.requestAnimationFrame()

Source

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