

Canvas cheatsheet with all API methods and properties

This is a valuable resource we recommend either printing or keeping open in a separate browser tab. The original version was located at "http://blog.nihilogic.dk/2009/02/html5-canvas-cheat-sheet.html", but this URL does not work anymore. Here, we share here the mirrored versions (HTML and PDF ones).

HTML VERSION

- Just follow this link: <https://simon.html5.org/dump/html5-canvas-cheat-sheet.html>

PDF VERSION

The image links to a PDF, just click on it.

Canvas element

| Attributes | | |
|------------|------------------------------|---|
| Name | Type | Default |
| width | unsigned long | 300 |
| height | unsigned long | 150 |
| Methods | | |
| Return | Name | |
| string | toDataURL() | [Optional] string type, [Variadic] any args |
| Object | getContext(string contextId) | |

2D Context

| Attributes | |
|------------|-----------------------------|
| Name | Type |
| canvas | HTMLCanvasObject [readonly] |
| Methods | |
| Return | Name |
| void | save() |
| void | restore() |












Transformation

| Methods | |
|---------|--|
| Return | Name |
| void | scale(float x, float y) |
| void | rotate(float angle) |
| void | translate(float x, float y) |
| void | transform(float m11, float m12, float m21, float m22, float dx, float dy) |
| void | setTransform(float m11, float m12, float m21, float m22, float dx, float dy) |











Image drawing

| Methods | |
|---|---|
| Return | Name |
| void | drawImage(Object image, float dx, float dy, [Optional] float dw, float dh) |
| Argument "image" can be of type <code>HTMLImageElement</code> , <code>HTMLCanvasElement</code> or <code>HTMLVideoElement</code> | |
| void | drawImage(Object image, float sx, float sy, float sw, float sh, float dx, float dy, float dw, float dh) |

Compositing

| Attributes | | |
|---|--------|-------------|
| Name | Type | Default |
| globalAlpha | float | 1.0 |
| globalCompositeOperation | string | source-over |
| Supports any of the following values: | | |
|  | | |
|  | | |
|  | | |
|  | | |
|  | | |
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|  | | |
|  | | |
|  | | |
|  | | |
|  | | |

Line styles

| Attributes | | |
|---|--------|---------|
| Name | Type | Default |
| lineWidth | float | 1.0 |
| lineCap | string | butt |
| Supports any of the following values: | | |
|  | | |
|  | | |
|  | | |
|  | | |
| Supports any of the following values: | | |
|  | | |
|  | | |
|  | | |
| lineJoin | string | |
| Supports any of the following values: | | |
|  | | |
|  | | |
|  | | |
| miterLimit | float | 10 |

Colors, styles and shadows

| Attributes | | |
|---|--|-------------------|
| Name | Type | Default |
| strokeStyle | any | black |
| fillStyle | any | black |
| shadowOffsetX | float | 0.0 |
| shadowOffsetY | float | 0.0 |
| shadowBlur | float | 0.0 |
| shadowColor | string | transparent black |
| Methods | | |
| Return | Name | |
| CanvasGradient | createLinearGradient(float x0, float y0, float x1, float y1) | |
| CanvasGradient | createRadialGradient(float x0, float y0, float r0, float x1, float y1, float r1) | |
| CanvasPattern | createPattern(Object image, string repetition) | |
| Argument "image" can be of type <code>HTMLImageElement</code> , <code>HTMLCanvasElement</code> or <code>HTMLVideoElement</code> | | |
| "repetition" supports any of the following values: | | |
| [repeat (default), repeat-x, repeat-y, no-repeat] | | |

CanvasGradient interface

| | |
|------|--|
| void | addColorStop(float offset, string color) |
|------|--|

CanvasPattern interface

No attributes or methods.

Paths

| Methods | |
|---------|--|
| Return | Name |
| void | beginPath() |
| void | closePath() |
| void | fill() |
| void | stroke() |
| void | clip() |
| void | moveTo(float x, float y) |
| void | lineTo(float x, float y) |
| void | quadraticCurveTo(float cpX, float cpY, float x, float y) |
| void | bezierCurveTo(float cp1X, float cp1Y, float cp2X, float cp2Y, float x, float y) |
| void | arcTo(float x1, float y1, float x2, float y2, float radius) |
| void | arc(float x, float y, float radius, float startAngle, float endAngle, boolean anticlockwise) |
| void | rect(float x, float y, float w, float h) |
| boolean | isPointInPath(float x, float y) |

Text

| Attributes | | |
|---|--|-----------------|
| Name | Type | Default |
| font | string | 10px sans-serif |
| textAlign | string | start |
| Supports any of the following values: | | |
| [start, end, left, right, center] | | |
| textBaseline | string | alphabetic |
| Supports any of the following values: | | |
| [top, hanging, middle, alphabetic, ideographic, bottom] | | |
| Methods | | |
| Return | Name | |
| void | fillText(string text, float x, float y, [Optional] float maxWidth) | |
| void | strokeText(string text, float x, float y, [Optional] float maxWidth) | |
| TextMetrics | measureText(string text) | |

TextMetrics interface

| | | |
|-------|-------|------------|
| width | float | [readonly] |
|-------|-------|------------|

Rectangles

| Methods | |
|---------|--|
| Return | Name |
| void | clearRect(float x, float y, float w, float h) |
| void | fillRect(float x, float y, float w, float h) |
| void | strokeRect(float x, float y, float w, float h) |

Pixel manipulation

| Methods | |
|-----------|---|
| Return | Name |
| ImageData | createImageData(float sw, float sh) |
| ImageData | createImageData(ImageData) |
| ImageData | getImageData(float sx, float sy, float sw, float sh) |
| void | putImageData(ImageData imagedata, float dx, float dy, [Optional] float dirtyX, float dirtyY, float dirtyWidth, float dirtyHeight) |

ImageData interface

| | | |
|--------|------------------|------------|
| width | unsigned long | [readonly] |
| height | unsigned long | [readonly] |
| data | CanvasPixelArray | [readonly] |

CanvasPixelArray interface

| | | |
|--------|---------------|------------|
| length | unsigned long | [readonly] |
|--------|---------------|------------|