

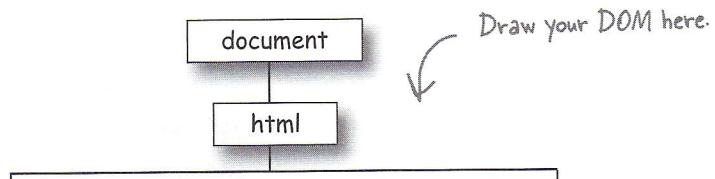
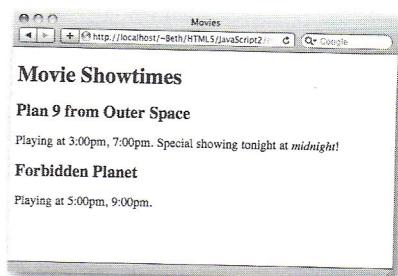


BE the Browser

Your job is to act like you're the browser. You need to parse the HTML and build your very own DOM from it. Go ahead and parse the HTML to the right, and draw your DOM below. We've already started it for you.

Check your answer with our solution at the end of the chapter before you go on.

```
<!doctype html>
<html lang="en">
  <head>
    <title>Movies</title>
  </head>
  <body>
    <h1>Movie Showtimes</h1>
    <h2 id="movie1" >Plan 9 from Outer Space</h2>
    <p>Playing at 3:00pm, 7:00pm.
      <span>
        Special showing tonight at <em>midnight</em>!
      </span>
    </p>
    <h2 id="movie2">Forbidden Planet</h2>
    <p>Playing at 5:00pm, 9:00pm.</p>
  </body>
</html>
```

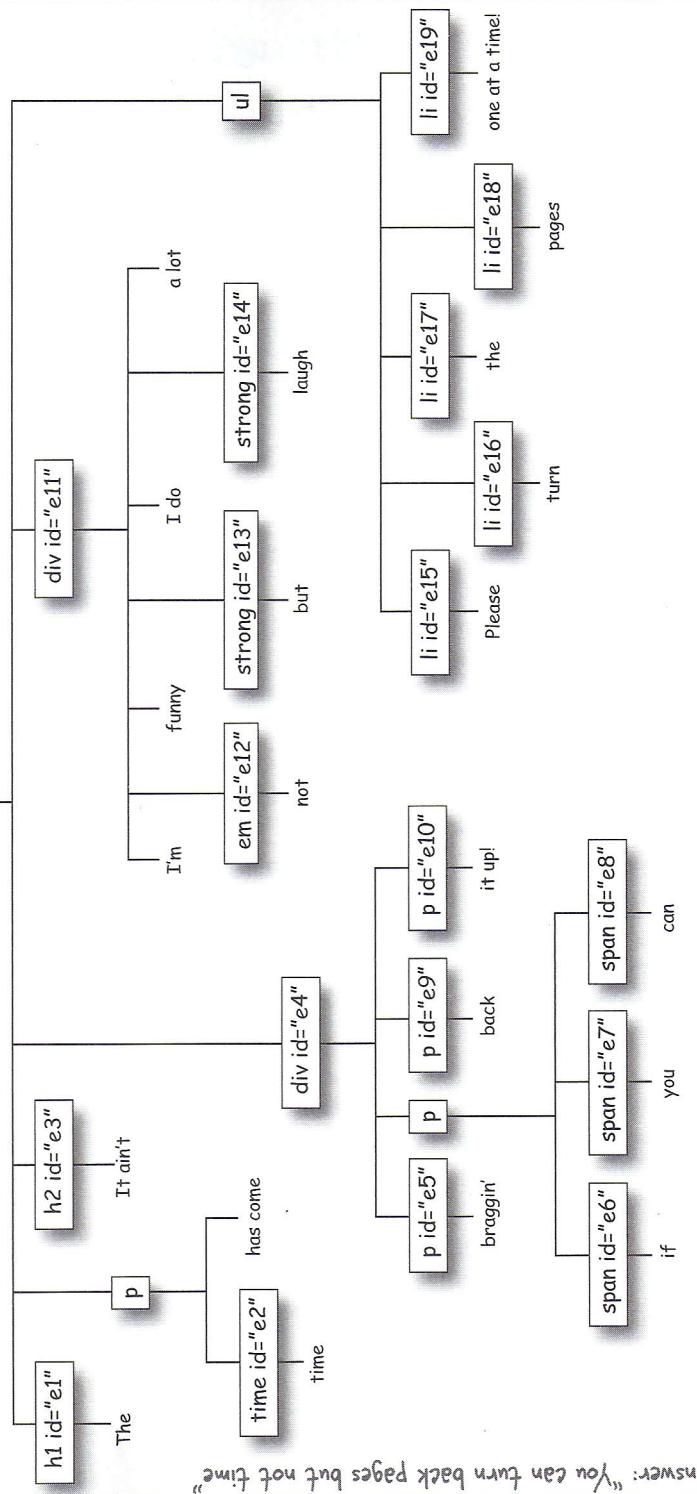
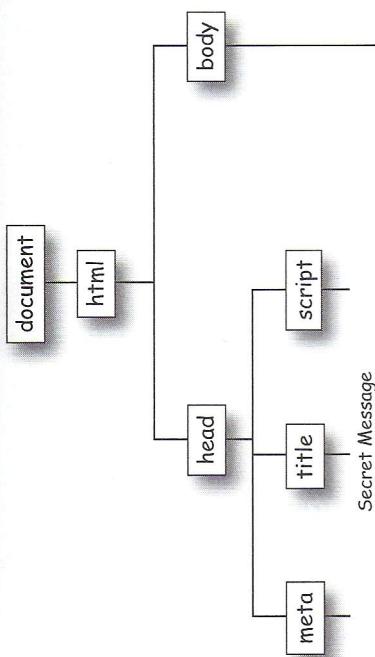




Here's a DOM with a secret message hidden in it. Evaluate the code below to reveal the secret! The answer is upside down on this page.

```
document.getElementById("e7")
document.getElementById("e8")
document.getElementById("e16")
document.getElementById("e9")
document.getElementById("e18")
document.getElementById("e13")
document.getElementById("e12")
document.getElementById("e2")
```

Write the element each line of code selects, as well as the content of the element to reveal the secret message!



Answer: "You can turn back pages but not time"

Circle and identify at least one of each of the following:
<section> <article> <header> <footer> <nav> <aside>



The screenshot shows the Georgia Tech website homepage. At the top, there's a navigation bar with links for BUZZPORT, CAMPUS MAP, DIRECTORIES, and a search bar. A yellow banner on the right says "Sign up today for JACKET GUARDIAN" with an image of a person wearing a hard hat. On the left, there's a sidebar with links for About Tech, Admissions, Campuses & Global Reach, Colleges & Schools, Degree Programs, Offices & Departments, Professional Education, Employment, News Room, Research, Libraries & Info Center, Sports, Alumni Association, Economic Development, Tickets & Merchandise, Campus Calendar, and Contact Us. Below this is a "DID YOU KNOW?" box featuring a bee icon and text about the first student publication. The main content area features a large image of Earth with a focus on the Arctic region, titled "Arctic Sea Ice Decline May Be Driving Snowy Winters". To the right of the main image are several boxes: "STRATEGIC VISION" (with a "DESIGNING THE FUTURE" graphic), "VIDEOS @ TECH" (with a video camera icon), "BLOGS @ TECH" (with a word cloud graphic), "TWEETS @ TECH" (with a bird icon), "APPLY TO TECH" (with a group of people cheering), "GREEN BUZZ" (with a green leaf icon), "GIVING TO TECH" (with a couple standing next to a yellow bus), "CAREERS @ TECH" (with two people icons), and "EMERGENCY PROCEDURES" (with a "TECH" logo). At the bottom, there's a footer with links for CONTACT US, LEGAL & PRIVACY INFO, ACCOUNTABILITY, SITE MAP, TECH LINGO, and social media icons. The year 2012 and location Atlanta, Georgia 30332 are also mentioned.



<header>



BUZZPORT

CAMPUS MAP

DIRECTORIES

Search

YOUR GEORGIA TECH

- About Tech
- Admissions
- Campuses & Global Reach
- Colleges & Schools
- Degree Programs
- Offices & Departments
- Professional Education
- Employment
- News Room
- Research
- Libraries & Info Center
- Sports
- Alumni Association
- Economic Development
- Tickets & Merchandise
- Campus Calendar
- Contact Us

Did You Know?
The first advanced computing system at Georgia Tech was the \$300,000 AC Network Calculator, installed in 1947. It occupied an entire building and was used to model power station distribution systems with unprecedented accuracy.



NEWS & EVENTS

[Georgia Tech Students Study Design Challenges at the Atlanta Airport](#)

Georgia Tech students offer design advice to Hartsfield-Jackson Atlanta International Airport.



[College of Computing Hires Forman, Anton to Lead Schools](#)

Georgia Tech's College of Computing has hired renowned computing leaders Lance Forman and Annie Anton to chair its schools of Computer Science and Interactive Computing,



MAR
26

[Georgia Tech Accepted Students Raise the Bar](#)

Georgia Tech has high expectations for the 2012-13 freshman class, because their qualifications for entry have raised the bar.

[Coal in Your Community](#)

The Student Planning Association's Social Justice Committee hosts its annual lecture event.

STRATEGIC VISION

[DESIGNING THE FUTURE](#)



VIDEOS @ TECH



BLOGS @ TECH



TWEETS @ TECH



APPLY TO TECH



GREEN BUZZ



GIVING TO TECH



DIGITAL LOUNGE @ TECH



EMERGENCY PROCEDURES

<http://gatech.edu/?n=2>

<footer>

CONTACT US · LEGAL & PRIVACY INFO · ACCOUNTABILITY · SITE MAP · TECH LINGO · [Facebook](#) [Twitter](#) [YouTube](#) [RSS](#)

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New [tags added in HTML5]

<code><article></code>	<i>self-contained composition that is independently distributable</i>	<code><details></code>	<i>details of an element</i>	<code><output></code>	<i>represents results of calculation</i>
<code><aside></code>	<i>section of page that consists of content tangentially related to content around it</i>	<code><embed></code>	<i>embedded content</i>	<code><progress></code>	<i>progress of any kind of task</i>
<code><audio></code>	<i>sound content</i>	<code><figcaption></code>	<i>caption of figure element</i>	<code><rp></code>	<i>parenthesized ruby text</i>
<code><bdi></code>	<i>span of text to be isolated from surroundings for bidirectional formatting purposes</i>	<code><figure></code>	<i>group of media content</i>	<code><rt></code>	<i>ruby text</i>
<code><canvas></code>	<i>area that can be used to draw graphics via JavaScript</i>	<code><footer></code>	<i>footer for section or page</i>	<code><ruby></code>	<i>ruby annotations</i>
<code><command></code>	<i>user invokable command</i>	<code><header></code>	<i>header for section or page</i>	<code><section></code>	<i>section in a document</i>
<code><datalist></code>	<i>dropdown list</i>	<code><hgroup></code>	<i>group of headings for section</i>	<code><source></code>	<i>media resources</i>
<code><datatemplate></code>	<i>data template</i>	<code><keygen></code>	<i>generated key in a form</i>	<code><summary></code>	<i>header of a detail element</i>
		<code><mark></code>	<i>marked text</i>	<code><time></code>	<i>date/time</i>
		<code><meter></code>	<i>measurement in defined range</i>	<code><video></code>	<i>video</i>
		<code><nav></code>	<i>navigation links</i>	<code><wbr></code>	<i>possible line break</i>

Existing [tags in HTML4 & 5]

<code><!--...--></code>	<i>comment</i>	<code><code></code>	<i>code text</i>	<code><html></code>	<i>html document</i>
<code><!doctype></code>	<i>document type</i>	<code><col></code>	<i>attributes for columns</i>	<code><i></code>	<i>italic text</i>
<code><a></code>	<i>hyperlink</i>	<code><colgroup></code>	<i>groups of columns</i>	<code><iframe></code>	<i>inline sub window</i>
<code><abbr></code>	<i>abbreviation</i>	<code><dd></code>	<i>definition description</i>	<code></code>	<i>image</i>
<code><address></code>	<i>address element</i>	<code></code>	<i>deleted text</i>	<code><input></code>	<i>input field</i>
<code><area></code>	<i>image map area</i>	<code><div></code>	<i>generic block-level element</i>	<code><ins></code>	<i>inserted text</i>
<code></code>	<i>bold text</i>	<code><dfn></code>	<i>defining instance of a term</i>	<code><kbd></code>	<i>keyboard text</i>
<code><base></code>	<i>base URL for all links in page relative to document root</i>	<code><dl></code>	<i>definition list</i>	<code><label></code>	<i>label for a form control</i>
<code><bdo></code>	<i>text direction</i>	<code><dt></code>	<i>definition term</i>	<code><legend></code>	<i>title in a fieldset</i>
<code><blockquote></code>	<i>long quotation</i>	<code></code>	<i>emphasized text</i>	<code></code>	<i>list item</i>
<code><body></code>	<i>body element</i>	<code><fieldset></code>	<i>logically group items in a form</i>	<code><link></code>	<i>resource reference</i>
<code>
</code>	<i>single line break</i>	<code><form></code>	<i>defines a form</i>	<code><map></code>	<i>image map</i>
<code><button></code>	<i>push button</i>	<code><h1> to <h6></code>	<i>header 1 to header 6</i>	<code><menu></code>	<i>menu list</i>
<code><caption></code>	<i>table caption</i>	<code><head></code>	<i>document information</i>	<code><meta></code>	<i>meta information</i>
<code><cite></code>	<i>citation</i>	<code><hr></code>	<i>horizontal rule</i>	<code><noscript></code>	<i>no script section</i>

[TAGS]

Old [unsupported tags]

calculation	<code><acronym></code>	acronym	<code><isindex></code>	provides searchable index related to current document
of task	<code><applet></code>	applet	<code><dir></code>	directory list
text	<code><basefont></code>	base font	<code><noembed></code>	no embed section
	<code><bgsound></code>	background sound	<code><noframes></code>	no frame section
	<code><big></code>	big text	<code><s></code>	strikethrough text
ent	<code><center></code>	centered text	<code><strike></code>	strikethrough text
	<code><fn></code>	footnotes	<code><tt></code>	teletype text
lement	<code></code>	text font, size, and color	<code><u></code>	underlined text
	<code><frame></code>	sub window	<code><xmp></code>	preformatted text
	<code><frameset></code>	set of frames		

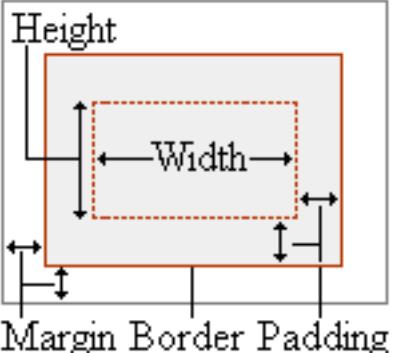
Existing [tags in HTML4 & 5] (cont.)

	<code><object></code>	embedded object	<code><sub></code>	subscripted text
	<code></code>	ordered list	<code><sup></code>	superscripted text
	<code><optgroup></code>	option group	<code><table></code>	table
	<code><option></code>	option in a drop-down list	<code><tbody></code>	table body
	<code><p></code>	paragraph	<code><td></code>	table cell
	<code><param></code>	parameter for an object	<code><textarea></code>	text area
	<code><pre></code>	preformatted object	<code><tfoot></code>	table footer
ntrol	<code><q></code>	short quotation	<code><th></code>	table header
	<code><samp></code>	sample computer code	<code><thead></code>	wraps row containing table headers
	<code><script></code>	script	<code><title></code>	document title
	<code><select></code>	selectable list	<code><tr></code>	table row
	<code><small></code>	small text	<code></code>	unordered list
	<code></code>	inline generic container	<code><var></code>	variable
	<code></code>	strong text		
	<code><style></code>	style definition		

Brought to you by:



CSS CHEAT SHEET

Shorthand*	SYNTAX	BOX MODEL																								
background border border-bottom border-left border-right border-top font list-style margin padding	<p>Syntax <code>selector {property: value;}</code></p> <p>External Style Sheet <code><link rel="stylesheet" href="style.css" /></code></p> <p>Internal Style <code><style> selector {property: value;} </style></code></p> <p>Inline Style <code><tag style="property: value;"></code></p>	 <p>height; width; margin-top; margin-right; margin-bottom; margin-left; padding-top; padding-right; padding-bottom; padding-left;</p>																								
Comments	<code>/* Comment */</code>																									
Pseudo Selectors	<p>GENERAL</p> <table> <tr> <td>Class</td><td>String preceded by a period</td></tr> <tr> <td>ID</td><td>String preceded by a hash mark</td></tr> <tr> <td>div</td><td>Formats structure or block of text</td></tr> <tr> <td>span</td><td>Inline formatting</td></tr> <tr> <td>color</td><td>Foreground color</td></tr> <tr> <td>cursor</td><td>Appearance of the cursor</td></tr> <tr> <td>display</td><td><code>block; inline; list-item; none</code></td></tr> <tr> <td>overflow</td><td>How content overflowing its box is handled <code>visible, hidden, scroll, auto</code></td></tr> <tr> <td>visibility</td><td><code>visible, hidden</code></td></tr> </table>	Class	String preceded by a period	ID	String preceded by a hash mark	div	Formats structure or block of text	span	Inline formatting	color	Foreground color	cursor	Appearance of the cursor	display	<code>block; inline; list-item; none</code>	overflow	How content overflowing its box is handled <code>visible, hidden, scroll, auto</code>	visibility	<code>visible, hidden</code>	<p>BORDER</p> <table> <tr> <td>border-width</td><td>Width of the border</td></tr> <tr> <td>border-style</td><td>dashed; dotted; double; groove; inset; outset; ridge; solid; none</td></tr> <tr> <td>border-color</td><td>Color of the border</td></tr> </table>	border-width	Width of the border	border-style	dashed; dotted; double; groove; inset; outset; ridge; solid; none	border-color	Color of the border
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Media Types		<p>POSITION</p> <table> <tr> <td>clear</td><td>Any floating elements around the element?</td><td><code>both, left, right, none</code></td></tr> <tr> <td>float</td><td>Floats to a specified side</td><td><code>left, right, none</code></td></tr> <tr> <td>left</td><td>The left position of an element</td><td>auto, length values (pt, in, cm, px)</td></tr> <tr> <td>top</td><td>The top position of an element</td><td>auto, length values (pt, in, cm, px)</td></tr> <tr> <td>position</td><td>static, relative, absolute</td><td></td></tr> <tr> <td>z-index</td><td>Element above or below overlapping elements?</td><td><code>auto, integer (higher numbers on top)</code></td></tr> </table>	clear	Any floating elements around the element?	<code>both, left, right, none</code>	float	Floats to a specified side	<code>left, right, none</code>	left	The left position of an element	auto, length values (pt, in, cm, px)	top	The top position of an element	auto, length values (pt, in, cm, px)	position	static, relative, absolute		z-index	Element above or below overlapping elements?	<code>auto, integer (higher numbers on top)</code>						
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Length % em pt px Keywords bolder lighter larger	<p>TEXT</p> <table> <tr> <td>letter-spacing</td><td>Space between letters</td></tr> <tr> <td>line-height</td><td>Vertical distance between baselines</td></tr> <tr> <td>text-align</td><td>Horizontal alignment</td></tr> <tr> <td>text-decoration</td><td><code>blink, line-through, none, overline, underline</code></td></tr> <tr> <td>text-indent</td><td>First line indentation</td></tr> <tr> <td>text-transform</td><td>capitalize, lowercase, uppercase</td></tr> <tr> <td>vertical-align</td><td>Vertical alignment</td></tr> <tr> <td>word-spacing</td><td>Spacing between words</td></tr> </table>	letter-spacing	Space between letters	line-height	Vertical distance between baselines	text-align	Horizontal alignment	text-decoration	<code>blink, line-through, none, overline, underline</code>	text-indent	First line indentation	text-transform	capitalize, lowercase, uppercase	vertical-align	Vertical alignment	word-spacing	Spacing between words	<p>LIST</p> <table> <tr> <td>list-style-type</td><td>Type of bullet or numbering in the list</td><td><code>disc; circle; square; decimal; lower-roman; upper-roman; lower-alpha; upper-alpha; none</code></td></tr> <tr> <td>list-style-position</td><td>Position of the bullet or number in a list</td><td><code>inside; outside</code></td></tr> <tr> <td>list-style-image</td><td>Image to be used as the bullet in a list</td></tr> </table>	list-style-type	Type of bullet or numbering in the list	<code>disc; circle; square; decimal; lower-roman; upper-roman; lower-alpha; upper-alpha; none</code>	list-style-position	Position of the bullet or number in a list	<code>inside; outside</code>	list-style-image	Image to be used as the bullet in a list
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CSS CHEAT SHEET

Shorthand*

background
border
border-bottom
border-left
border-right
border-top
font
list-style
margin
padding

SYNTAX

Syntax

```
selector {property: value;}
```

External Style Sheet

```
<link rel="stylesheet" href="style.css" />
```

Internal Style

```
<style>  
  selector {property: value;}  
</style>
```

Inline Style

```
<tag style="property: value">
```

Comments

```
/* Comment */
```

Pseudo Selectors

:hover
:active
:focus
:link
:visited
:first-line
:first-letter

Media Types

all
braille
embossed
handheld
print
projection
screen
speech
tty
tv

Units

Length %
em
pt
px
Keyw ords
bolder
lighter
larger

GENERAL

Class	String preceded by a period
ID	String preceded by a hash mark
div	Formats structure or block of text
span	Inline formatting
color	Foreground color
cursor	Appearance of the cursor
display	block, inline, list-item, none
overflow	How content overflowing its box is handled visible, hidden, scroll, auto
visibility	visible, hidden

FONT

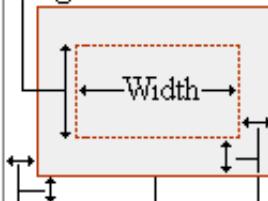
font-style	Italic, normal
font-variant	normal, small-caps
font-weight	bold, normal, lighter, bolder, integer (100-900)
font-size	Size of the font
font-family	Specific font(s) to be used

TEXT

letter-spacing	Space between letters
line-height	Vertical distance between baselines
text-align	Horizontal alignment
text-decoration	blink, line-through, none, overline, underline
text-indent	First line indentation
text-transform	capitalize, lowercase, uppercase
vertical-align	Vertical alignment
word-spacing	Spacing between words

BOX MODEL

Height



Margin Border Padding

height; width; margin-top; margin-right; margin-bottom; margin-left; padding-top; padding-right; padding-bottom; padding-left;

BORDER

border-width	Width of the border
border-style	dashed; dotted; double; groove; inset; outset; ridge; solid; none
border-color	Color of the border

POSITION

clear	Any floating elements around the element?	both, left, right, none
float	Floats to a specified side	left, right, none
left	The left position of an element	auto, length values (pt, in, cm, px)
top	The top position of an element	auto, length values (pt, in, cm, px)
position	static, relative, absolute	
z-index	Element above or below overlapping elements?	auto, integer (higher numbers on top)

BACKGROUND

background-color	Background color
background-image	Background image
background-repeat	repeat, no-repeat, repeat-x, repeat-y
background-attachment	Background image scroll with the element?
background-position	(x y), top, center, bottom, left, right

LIST

list-style-type	Type of bullet or numbering in the list
	disc; circle; square; decimal; lower-roman; upper-roman; lower-alpha; upper-alpha; none
list-style-position	Position of the bullet or number in a list
list-style-image	Image to be used as the bullet in a list

CSS3

border-radius	Round the corners of backgrounds and borders
	horizontal_radius_value vertical_radius_value
box-shadow	Drop shadows
	hor-shadow vert-shadow blur spread color inset

* The properties for each selector are in the order they should appear when using shorthand notation.

HTML5 Canvas Cheat Sheet v1.1

<http://blog.nihilogic.dk/>

Canvas element

Attributes

Name	Type	Default
<code>width</code>	<code>unsigned long</code>	300
<code>height</code>	<code>unsigned long</code>	150

Methods

Return	Name
<code>string</code>	<code>toDataURL([Optional] string type, [Variadic] any args)</code>
<code>Object</code>	<code>getContext(string contextId)</code>

2D Context

Attributes

Name	Type
<code>canvas</code>	<code>HTMLCanvasObject</code> [readonly]

Methods

Return	Name
<code>void</code>	<code>save()</code>
<code>void</code>	<code>restore()</code>

Transformation

Methods

Return	Name
<code>void</code>	<code>scale(float x, float y)</code>
<code>void</code>	<code>rotate(float angle)</code>
<code>void</code>	<code>translate(float x, float y)</code>
<code>void</code>	<code>transform(float m11, float m12, float m21, float m22, float dx, float dy)</code>
<code>void</code>	<code>setTransform(float m11, float m12, float m21, float m22, float dx, float dy)</code>

Image drawing

Methods

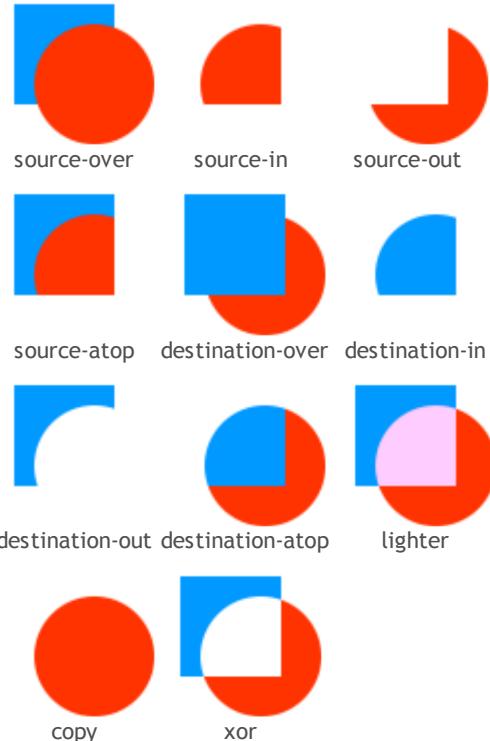
Return	Name
<code>void</code>	<code>drawImage(Object image, float dx, float dy, [Optional] float dw, float dh)</code> Argument "image" can be of type <code>HTMLImageElement</code> , <code>HTMLCanvasElement</code> or <code>HTMLVideoElement</code>
<code>void</code>	<code>drawImage(Object image, float sx,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

Compositing

Attributes

Name	Type	Default
<code>globalAlpha</code>	<code>float</code>	1.0
<code>globalCompositeOperation</code>	<code>string</code>	<code>source-over</code>

Supports any of the following values:



Line styles

Attributes

Name	Type	Default
<code>lineWidth</code>	<code>float</code>	1.0
<code>lineCap</code>	<code>string</code>	<code>butt</code>

Supports any of the following values:



<code>lineJoin</code>	<code>string</code>	<code>miter</code>

Supports any of the following values:



<code>miterLimit</code>	<code>float</code>	10

Colors, styles and shadows

Attributes

Name	Type	Default
strokeStyle	<i>any</i>	black
fillStyle	<i>any</i>	black
shadowOffsetX	<i>float</i>	0.0
shadowOffsetY	<i>float</i>	0.0
shadowBlur	<i>float</i>	0.0
shadowColor	<i>string</i>	transparent black

Methods

Return	Name
<i>CanvasGradient</i>	createLinearGradient(<i>float x0, float y0, float x1, float y1</i>)
<i>CanvasGradient</i>	createRadialGradient(<i>float x0, float y0, float r0,</i> <i>float x1, float y1, float r1</i>)
<i>CanvasPattern</i>	createPattern(<i>Object image, string repetition</i>) Argument "image" can be of type <i>HTMLImageElement</i> , <i>HTMLCanvasElement</i> or <i>HTMLVideoElement</i> "repetition" supports any of the following values: [repeat (default), repeat-x, repeat-y, no-repeat]

CanvasGradient interface

void	addColorStop(<i>float offset, string color</i>)
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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(<i>float cpx, float cpy,</i> <i>float x, float y)</i>
void	bezierCurveTo(<i>float cp1x, float cp1y,</i> <i>float cp2x, float cp2y,</i> <i>float x, float y)</i>
void	arcTo(<i>float x1, float y1,</i> <i>float x2, float y2, float radius)</i>
void	arc(<i>float x, float y, float radius,</i> <i>float startAngle, float endAngle,</i> <i>boolean anticlockwise)</i>
void	rect(float x, float y, float w, float h)
boolean	isPointInPath(float x, float y)

Text

Attributes

Name	Type	Default
font	<i>string</i>	10px sans-serif
textAlign	<i>string</i>	start
		Supports any of the following values: [start, end, left, right, center]
textBaseline	<i>string</i>	alphabetic
		Supports any of the following values: [top, hanging, middle, alphabetic, ideographic, bottom]

Methods

Return	Name
void	fillText(<i>string text, float x, float y,</i> <i>[Optional] float maxWidth</i>)
void	strokeText(<i>string text, float x, float y,</i> <i>[Optional] float maxWidth</i>)
<i>TextMetrics</i>	measureText(string text)

TextMetrics interface

width	<i>float</i>	[readonly]
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Rectangles

Methods

Return	Name
void	clearRect(<i>float x, float y, float w, float h</i>)
void	fillRect(<i>float x, float y, float w, float h</i>)
void	strokeRect(<i>float x, float y, float w, float h</i>)

Pixel manipulation

Methods

Return	Name
<i>ImageData</i>	createImageData(float sw, float sh)
<i>ImageData</i>	createImageData(<i>ImageData</i> imagedata)
<i>ImageData</i>	getImageData(<i>float sx, float sy, float sw, float sh</i>)
void	putImageData(<i>ImageData imagedata,</i> <i>float dx, float dy,</i> <i>[Optional] float dirtyX, float dirtyY,</i> <i>float dirtyWidth, float dirtyHeight</i>)

ImageData interface

width	<i>unsigned long</i>	[readonly]
height	<i>unsigned long</i>	[readonly]
data	<i>CanvasPixelArray</i>	[readonly]

CanvasPixelArray interface

length	<i>unsigned long</i>	[readonly]
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