Definition and Usage

The animate() method performs a custom animation of a set of CSS properties.

This method changes an element from one state to another with CSS styles. The CSS property value is changed gradually, to create an animated effect.

Only numeric values can be animated (like "margin:30px"). String values cannot be animated (like "background-color:red").

**Tip:** Use "+=" or "-=" for relative animations.

Syntax

(*selector*).animate(*{styles},speed,easing,callback*)

|  |  |
| --- | --- |
| **Parameter** | **Description** |
| *styles* | Required. Specifies one or more CSS properties/values to animate  **Note:** The property names must be camel-cased when used with the animate() method: You will need to write paddingLeft instead of padding-left, marginRight instead of margin-right, and so on  Properties that can be animated:   * [backgroundPositionX](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_backgroundpositionxy) * [backgroundPositionY](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_backgroundpositionxy) * [borderWidth](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_borderwidth) * [borderBottomWidth](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_borderbottomwidth) * [borderLeftWidth](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_borderleftwidth) * [borderRightWidth](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_borderrightwidth) * [borderTopWidth](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_bordertopwidth) * [borderSpacing](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_borderspacing) * [margin](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_margin) * [marginBottom](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_marginbottom) * [marginLeft](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_marginleft) * [marginRight](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_marginright) * [marginTop](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_margintop) * [outlineWidth](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_outlinewidth) * [padding](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_padding) * [paddingBottom](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_paddingbottom) * [paddingLeft](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_paddingleft) * [paddingRight](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_paddingright) * [paddingTop](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_paddingtop) * [height](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_height) * [width](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_width) * [maxHeight](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_maxheight) * [maxWidth](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_maxwidth) * [minHeight](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_minheight) * [minWidth](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_minwidth) * [fontSize](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_fontsize) * [bottom](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_bottom) * [left](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_left) * [right](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_right) * [top](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_top) * [letterSpacing](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_letterspacing) * [wordSpacing](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_wordspacing) * [lineHeight](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_lineheight) * [textIndent](http://www.w3schools.com/jquery/tryit.asp?filename=tryjquery_eff_ani_textindent)   **Tip:** Color animations are not included in the core jQuery library. If you want to animate color, you need to download the [Color Animations plugin](http://plugins.jquery.com/project/color) from jQuery.com |
| *speed* | Optional. Specifies the speed of the animation  Possible values:   * milliseconds * "slow" * "fast" |
| *easing* | Optional. Specifies the speed of the element in different points of the animation. Default value is "swing"  Possible values:   * "swing" - moves slower at the beginning/end, but faster in the middle * "linear" - moves in a constant speed   **Tip:** More easing functions are available in external plugins |
| *callback* | Optional. A function to be executed after the animation completes  To learn more about callback, please read our [jQuery Callback](http://www.w3schools.com/jquery/jquery_callback.asp) chapter |

Alternate Syntax

(*selector*).animate(*{styles},{options}*)

|  |  |
| --- | --- |
| **Parameter** | **Description** |
| *styles* | Required. Specifies one or more CSS properties/values to animate (See possible values above) |
| *options* | Optional. Specifies additional options for the animation  Possible values:   * speed - sets the speed of the animation * easing - specifies the easing function to use * callback - specifies a function to be executed after the animation completes * step - specifies a function to be executed after each step in the animation * queue - a Boolean value specifying whether or not to place the animation in the effects queue * specialEasing - a map of one or more CSS properties from the *styles* parameter, and their corresponding easing functions |