Animatable Properties

Many of the properties in CALayer and CIFilter can be animated. This article lists those properties, along with the animation used by default.

CALayer Animatable Properties

The following CALayer class properties can be animated by Core Animation. See CALayer for more information.

anchorPoint

Uses the default implied CABasicAnimation described in Table 1 (page 86).

backgroundColor

Uses the default implied CABasicAnimation described in Table 1 (page 86). (subproperties are animated using a basic animation)

• backgroundFilters

Uses the default implied CATransitionAnimation described in Table 2 (page 86). Sub-properties of the filters are animated using the default implied CABasicAnimation described in Table 1 (page 86).

borderColor

Uses the default implied CABasicAnimation described in Table 1 (page 86).

borderWidth

Uses the default implied CABasicAnimation described in Table 1 (page 86).

bounds

Uses the default implied CABasicAnimation described in Table 1 (page 86).

compositingFilter

Uses the default implied CATransitionAnimation described in Table 2 (page 86). Sub-properties of the filters are animated using the default implied CABasicAnimation described in Table 1 (page 86).

- contents
- contentsRect

Uses the default implied CABasicAnimation described in Table 1 (page 86).

• cornerRadius

Uses the default implied CABasicAnimation described in Table 1 (page 86).

doubleSided

No default implied animation is set.

filters

Uses the default implied CABasicAnimation described in Table 1 (page 86). Sub-properties of the filters are animated using the default implied CABasicAnimation described in Table 1 (page 86).

frame

The frame property itself is not animatable. You can achieve the same results by modifying the bounds and position properties instead.

• hidden

Uses the default implied CABasicAnimation described in Table 1 (page 86).

mask

Uses the default implied CABasicAnimation described in Table 1 (page 86).

masksToBounds

Uses the default implied CABasicAnimation described in Table 1 (page 86).

opacity

Uses the default implied CABasicAnimation described in Table 1 (page 86).

position

Uses the default implied CABasicAnimation described in Table 1 (page 86).

shadowColor

Uses the default implied CABasicAnimation described in Table 1 (page 86).

shadowOffset

Uses the default implied CABasicAnimation described in Table 1 (page 86).

shadowOpacity

Uses the default implied CABasicAnimation described in Table 1 (page 86).

shadowRadius

Uses the default implied CABasicAnimation described in Table 1 (page 86).

sublayers

Uses the default implied CATransitionAnimation described in Table 2 (page 86).

sublayerTransform

Uses the default implied CABasicAnimation described in Table 1 (page 86).

• transform

Uses the default implied CABasicAnimation described in Table 1 (page 86).

zPosition

Uses the default implied CABasicAnimation described in Table 1 (page 86).

Table 1Default Implied Basic Animation

Description	Value
Class	CABasicAnimation
duration	.25 seconds, or the duration of the current transaction
keyPath	Dependent on layer property type

Table 2 Default Implied Transition

Description	Value
Class	CATransition
duration	.25 seconds, or the duration of the current transaction
type	Fade (kCATransitionFade)
startProgress	0.0
endProgress	1.0

CIFilter Animatable Properties

Core Animation adds the following animatable properties to Core Image's CIFilter class. See CIFilter Core Animation Additions for more information. These properties are available only on OS X.

- name
- enabled