Version: 3.x

# withTiming

withTiming lets you create an animation based on duration and easing.

```
Preview Code
```

## Reference

```
import { withTiming } from 'react-native-reanimated';

function App() {
   sv.value = withTiming(0);
   // ...
}
```

Type definitions

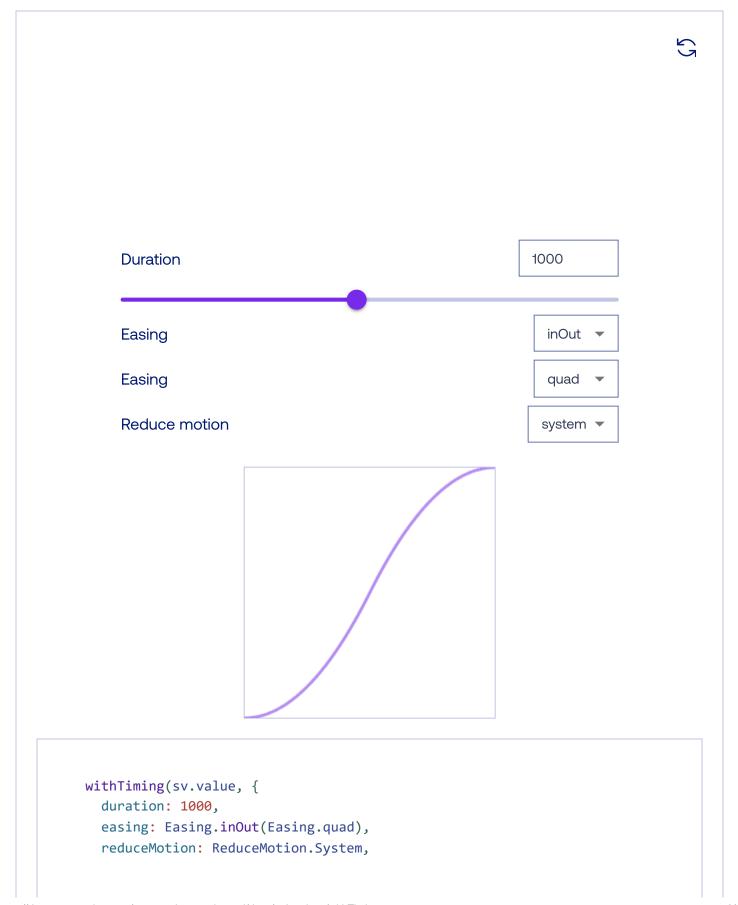
## **Arguments**

toValue

The value on which the animation will come at rest.

config Optional

The timing animation configuration.



})

### Available properties:

Name	Туре	Default	Description
duration Optional	number	300	Length of the animation (in milliseconds).
easing Optional	Easing	Easing.inOut(Easing.quad)	An easing function which defines the animation curve.
reduceMotion Optional	ReduceMotion	ReduceMotion.System	A parameter that determines how the animation responds to the device's reduced motion accessibility setting.

#### Easing

The easing parameter lets you fine-tune the animation over the specified time duration. For example, you can make the animation begin with fast acceleration and then slow down towards the end, or start slowly, then pick up speed before slowing down again towards the end.

It will all start to make sense when you compare a linear easing side by side with the default Easing.inOut(Easing.quad) easing.





Reanimated provides a selection of ready-to-use easing functions in the Easing module. You can find a visualization of some common easing functions at http://easings.net/.

You can use our built-in easings by passing them as the easing property to the withTiming config:

```
import { Easing } from 'react-native-reanimated';
withTiming(sv.value, {
  easing: Easing.bounce,
});
```

#### Available functions:

- back provides a simple animation where the object goes slightly back before moving forward
- bezier(x1: number, y1: number, x2: number, y2: number) provides a cubic bezier curve
- bounce provides a bouncing animation
- circle provides a circular function
- cubic provides a cubic function
- ease provides a simple inertial animation
- elastic(bounciness?: number) provides a simple spring interaction
- exp provides an exponential function
- linear provides a linear function
- poly(n: number) can be used to implement quartic, quintic, and other higher power functions

- quad provides a quadratic function
- sin provides a sinusoidal function

The following helpers are used to modify other easing functions.

- in(easing: EasingFunction) runs an easing function forwards
- inOut(easing: EasingFunction) makes any easing function symmetrical
- out(easing: EasingFunction) runs an easing function backwards

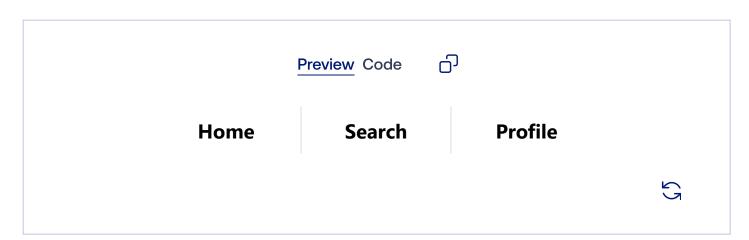
callback Optional

A function called upon animation completion. If the animation is cancelled, the callback will receive false as the argument; otherwise, it will receive true.

### **Returns**

with Timing returns an <u>animation object</u>. It can be either assigned directly to a <u>shared value</u> or can be used as a value for a style object returned from <u>useAnimatedStyle</u>.

# **Example**



### **Remarks**

The callback passed to the 3rd argument is automatically <u>workletized</u> and ran on the <u>UI</u> <u>thread</u>.

# **Platform compatibility**

Android	iOS	Web

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