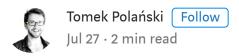
Flutter Animations Cheat Sheet





Flutter Animations Cheat Sheet

Since writing <u>Flutter Layout Cheat Sheet</u> article, I intended to create a similar article about Flutter's animations.

Unfortunately using GIFs or videos is not the greatest way to show the potential of animations. I was not able to teach animations compellingly... until now, thanks to <u>Flutter Web</u>.

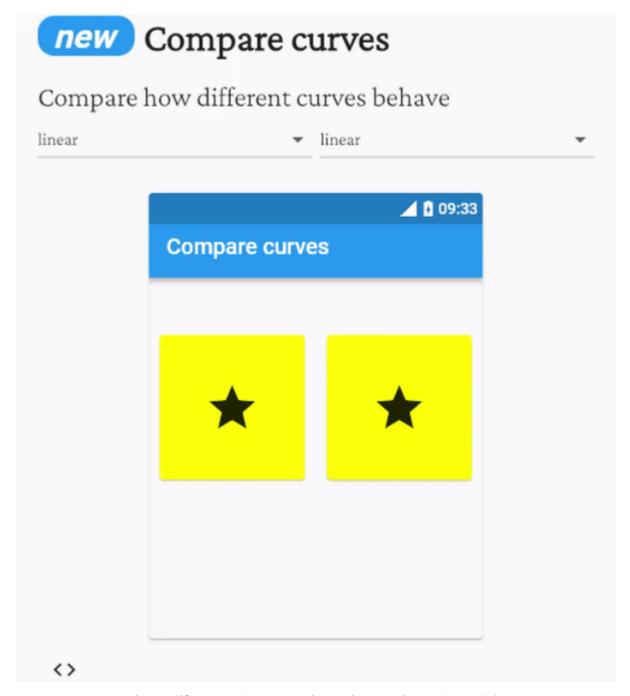
If you want to check out <u>Flutter Animations Cheat Sheet written in Flutter</u>, please visit that article.

Let us know how you like it!

Curves

An integral part of animations are Curves. They allow specifying when animation speeds up and when it slows down.

Now at Flutter Animations, you have an easy way to compare them:



https://flutter-animations-cheat-sheet.codemagic.app/#/

Transitions and Animated Widgets

When doing animations in Flutter you will come across approaches: *Transitions* and *Animated Widgets*.

Transitions

(e.g. slideTransition) are lightweight and you and more clean to combine. They do not need to be placed it a statefullWidget to work, but they need to have access Animation object (usually is an AnimationController).

In the beginning, *Transitions* might be harder to use vs *Animated Widgets*, but in the long run, they end up with cleaner code when creating more advanced animations.

Current Transitions in Flutter Animations:

```
SlideTransition, ScaleTransition, RotationTransition, SizeTransition, FadeTransition, PositionedTransition, RelativePositionedTransition, DecoratedBoxTransition, AlignTransition, DefaultTextStyleTransition
```

Animated Widgets

(e.g. AnimatedCrossFade) are more compound, prebuild solution. They might integrate multiple animations — AnimatedContainer can animate size, colour, border, ... at the same time. To create similar animation with *Transitions* it would require much more code.

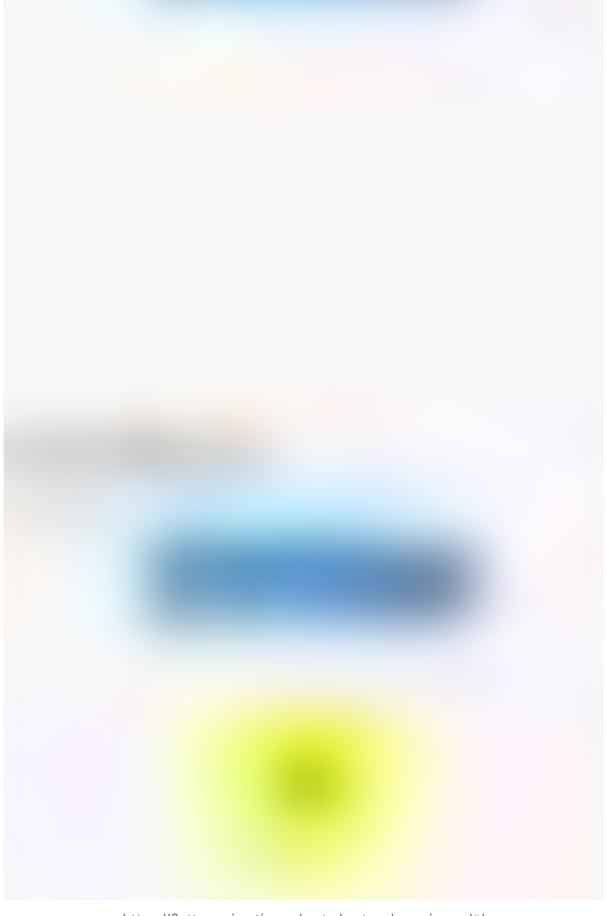
The downside of *Animated Widgets* is that they are much less flexible to change and they need to be in a StatefullWidget as setState() need to be called.

Animated Widgets are in the created with *Transition* internally — in case you need more custom widget, just use *Transitions*.

Current *Animated Widgets* in <u>Flutter Animations</u>:

```
AnimatedCrossFade, AnimatedContainer, AnimatedPadding, AnimatedAlign, AnimatedPositioned, AnimatedPositionedDirectional, AnimatedOpacity, AnimatedDefaultTextStyle, AnimatedPhysicalModel
```

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While Flutter Web is in preview, the page works the best with Chrome on desktop.

Cheatsheet Flutter Flutter Web Animation

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