



Desktop View Transitions

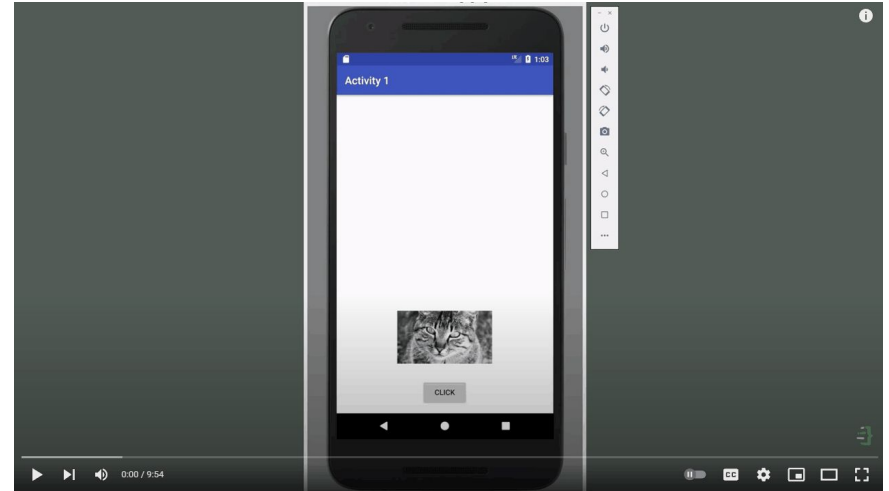
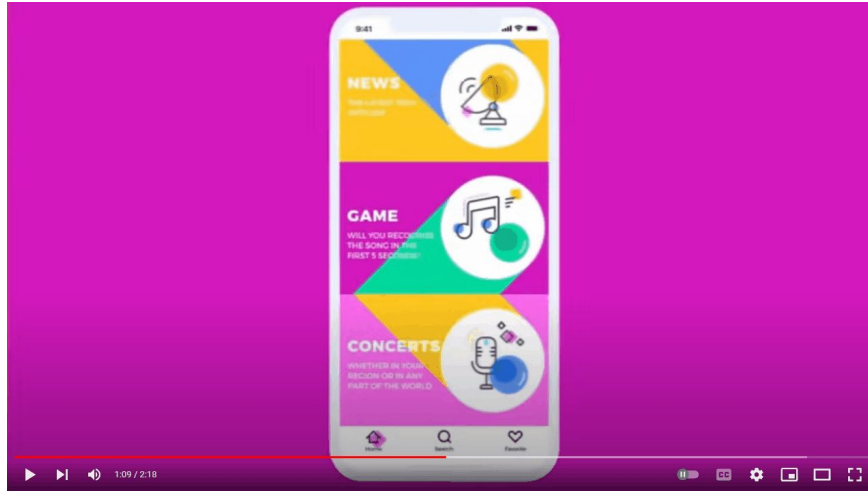
by Edwin Choi

Main Points

- Mobile View Transitions
- Page Transitions on Desktop Views
- Examples
- How it works
- Drawbacks
- Closing Thoughts



Mobile View Transitions



Benefits of VT on Mobile Views

- Synchronizes very well with touch-based navigation.
- Helps to retain user focus on pages or elements related to each other.
- Can also work in tandem with data fetching.
- Outside of that, they provide lots of aesthetic value.



Page Transitions on Desktop Apps

- Possible, but normally very difficult due to the nature of state transitions and how they are handled (ie. React.js)
- However, by using the View Transitions API, one is able to circumvent these issues through the use of state “snapshotting”

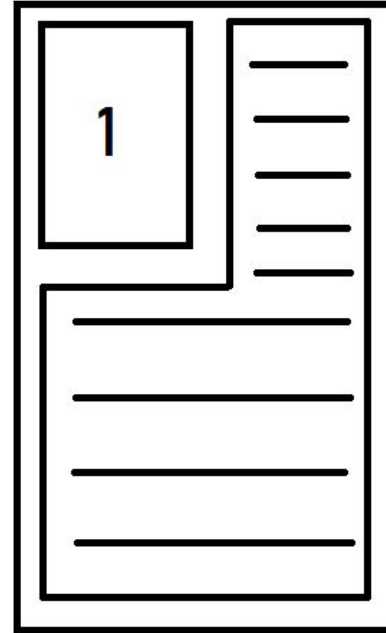
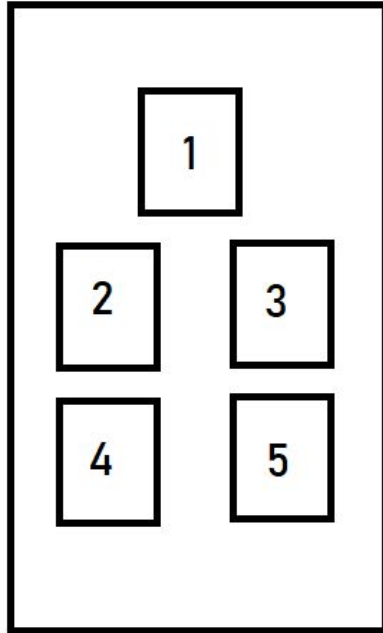


Examples

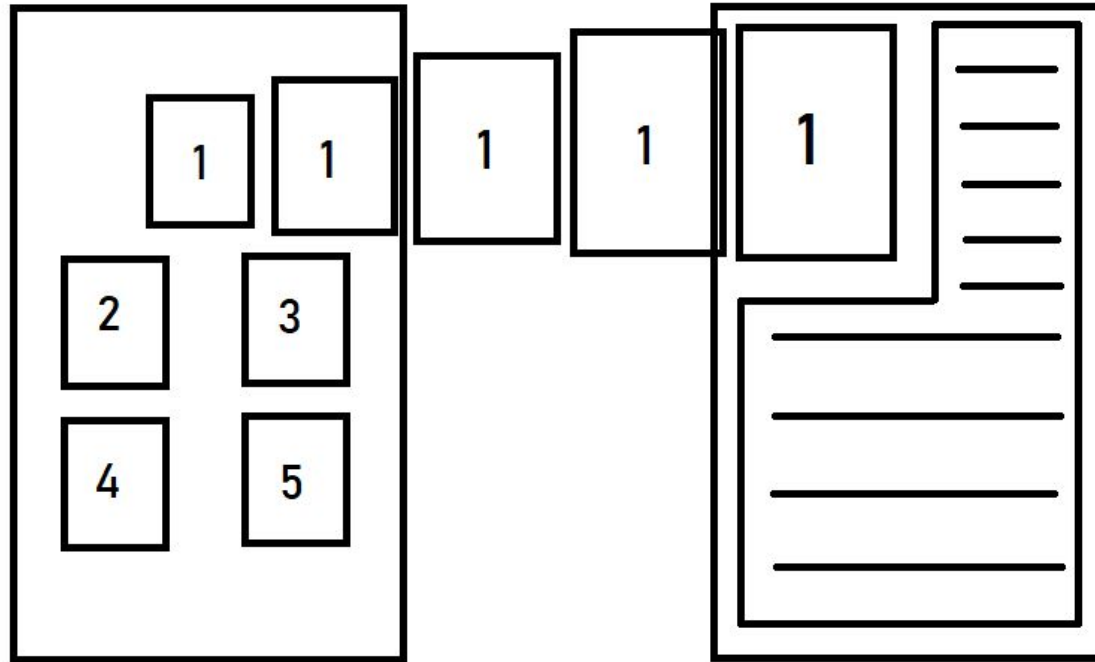
- Cross-Fade: <https://simple-set-demos.glitch.me/3-shared-axis/>
- Slow Cross-Fade: <https://simple-set-demos.glitch.me/2-slow-cross-fade/>
- HTTP203: <https://http203-playlist.netlify.app/>



Standard Page Navigation



Page/Element Transitions



Drawbacks

- The view transition API is currently only compatible with Google Chrome 111+ and Microsoft Bing.
- However, you can integrate failsafes to account for different runtime environments, so that page loads happen normally if the API is not recognized. (ie. Progressive Enhancement)
- <https://caniuse.com/>



Can I use

view transition

? ⚙ Settings

12 results found

CSS property: view-transition-name

Usage % of all users

Global 53.86%

Current aligned

Usage relative

Date relative

Filtered

All



Chrome	Edge *	Safari	Firefox	Opera	IE ⚠ *	Chrome for Android	Safari on iOS *	Samsung Internet	Opera Mini *	Opera Mobile *	UC Browser for Android	Android Browser *	Firefox for Android	QQ Browser	Baidu Browser	KaiOS Browser
4-110																
111	12-110	3.1-16.3	2-110	10-94	6-10		3.2-16.3	4-19.0		12-12.1		2.1-4.4.4				2.5
112	111	16.4	111	95	11	111	16.4	20	all	73	13.4	111	110	13.1	13.18	3.1
113-115		16.5	112-113				16.5									
		TP														

Notes

Test on a real browser

Feedback

This feature is **experimental**. Use caution before using in production.

See full reference on [MDN Web Docs](#).

Support data for this feature provided by:



MDN browser-compat-data

React.js Integration

- The View Transitions API can work alongside React, as long as one is using the ``flushSync`` import to force synchronous state changes.
- Otherwise, React Router is also another viable option, since its ``useSyncExternalStore`` API also performs synchronous rendering.



Closing Thoughts



Cited Works

Jake Archibald's Breakdown of View Transitions

<https://developer.chrome.com/docs/web-platform/view-transitions/>

https://www.youtube.com/watch?v=JCJUPJ_zDQ4

Malcolm Kee's guide to using View Transitions in React

<https://malcolmkee.com/blog/view-transition-api-in-react-app/>

