

The Future Composition of Animation



Huyen Tue Dao

Agenda

- 01 How are Compose animations different?
- 02 Basic Examples
- 03 Complex Examples
- 04 Caveats and Conclusions

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How are Compose animations different?

- Kotlin!
 - Low-level APIs are backed by **coroutines**
 - Some animations are **@Composeables**
 - Some animations are extension functions
 - Fluent APIs and DSL structures

How are Compose animations different?

- Easily hooks into composition/UDF architecture
 - Trigger from state changes
 - Coordinate with composition
- Green Field / Clean Slate / WIP
- Improved developer UX
 - Integration of good practices
 - Reasonable defaults

Agenda

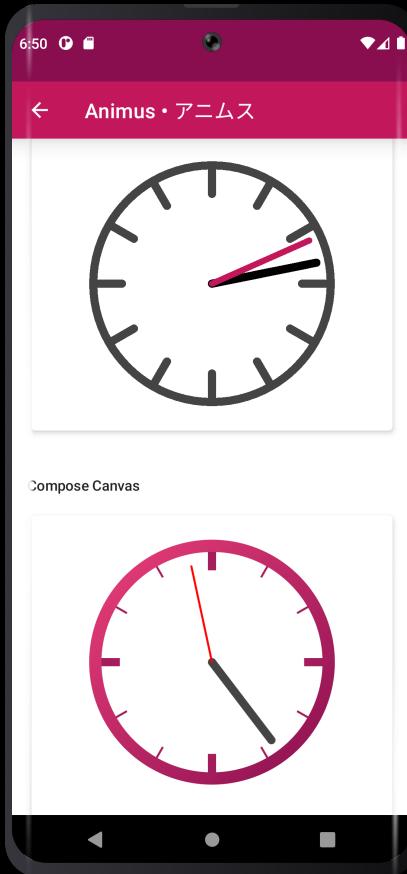
01 How are Compose animations different?

02 Basic Examples

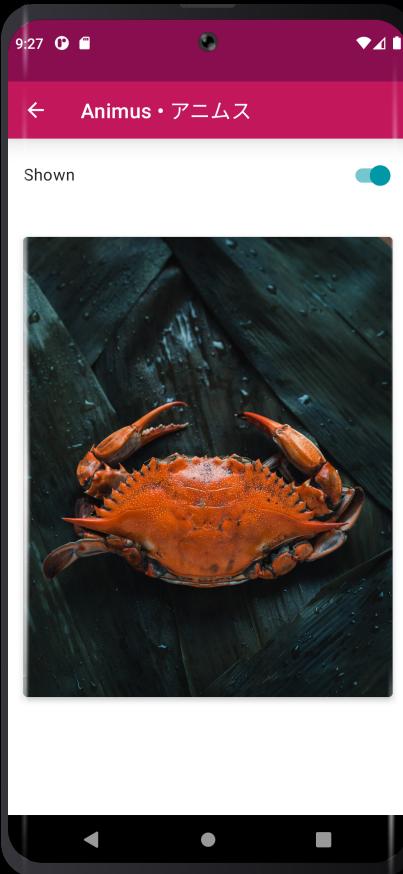
03 Complex Examples

04 Caveats and Conclusions

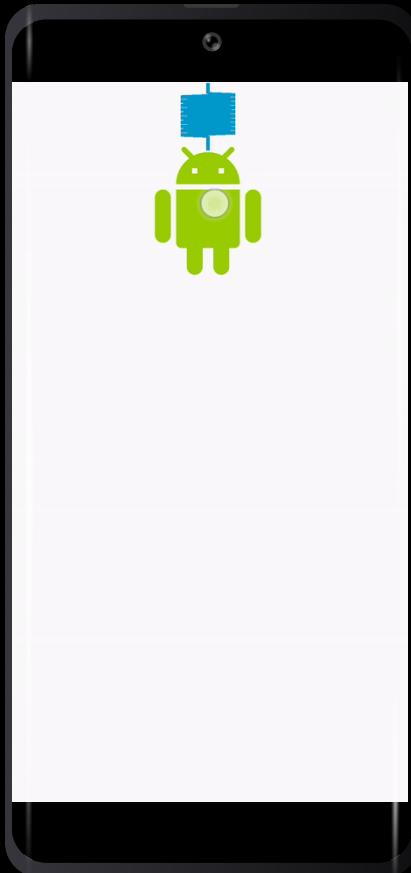
ValueAnimators vs. Animatables



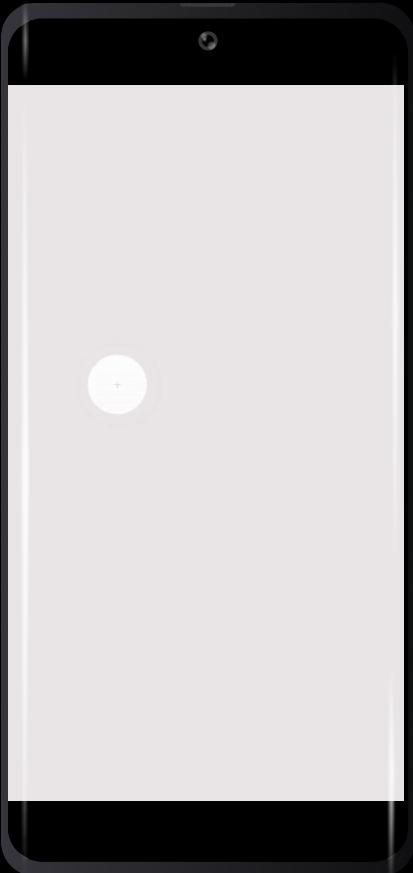
AnimatedVisibility

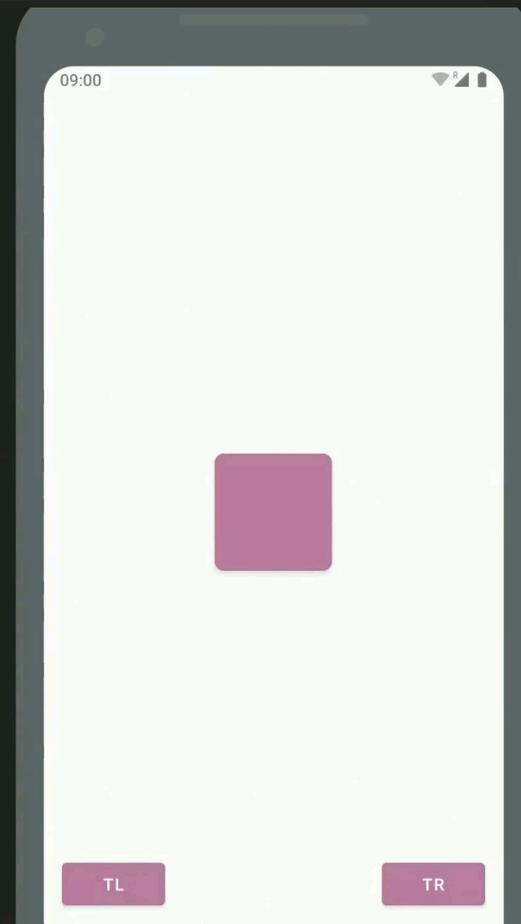


Physics-Based Animation



Physics-Based Animation





#io19

Motional intelligence: Build smarter animations (Google I/O'19)

21,248 views · May 9, 2019

502

8

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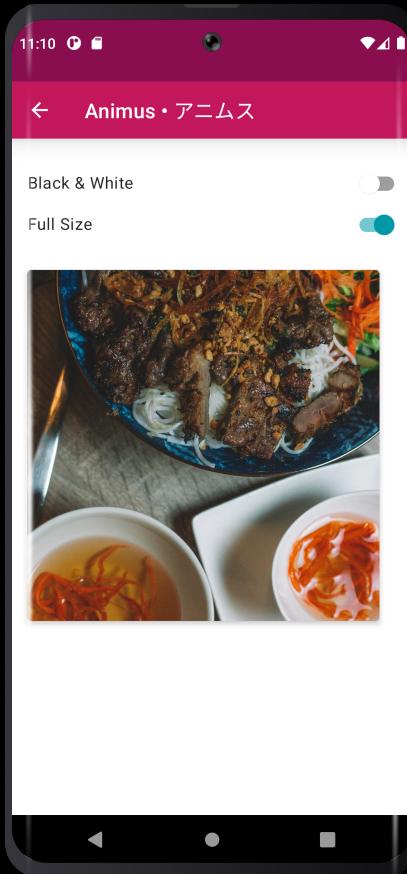


Android Studio

Google Workspace

Declarative UI patterns
(Google I/O'19)

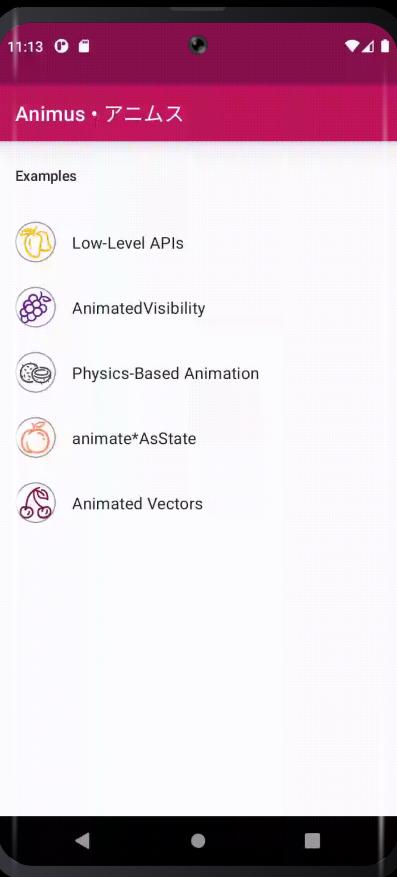
animate*AsState



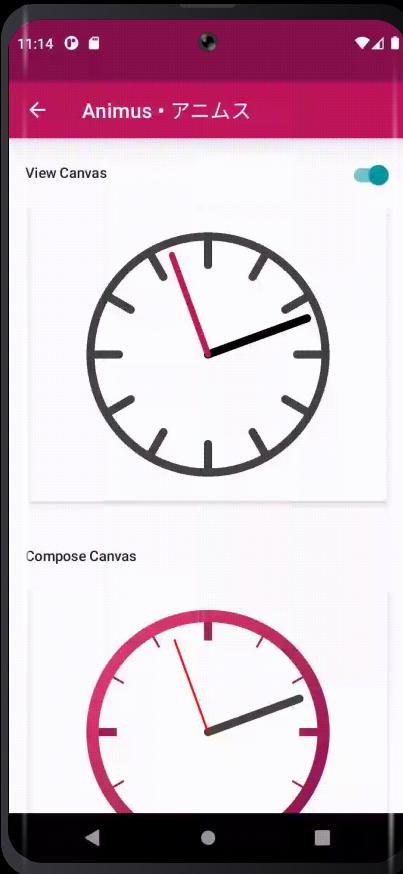
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AnimatedContent



updateTransition



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Thank you!

Huyen Tue Dao

ダオ・トゥエ・フェン

randomlytyping.com
@queencodemonkey

References

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