Scala2 => Scala3

(a live coding session)

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https://github.com/hermannhueck/migration-scala2-scala3

Abstract

In this live coding presentation I am taking some Scala 2 code samples and migrate them to Scala 3 – explaining a bunch of new features along the way.

Features to cover during the session (1/2)

» Top Level *def*'s and *val*'s

» Indentation / Optional Braces

» New Control Syntax

» Main Methods

» Constructor invocations w/o *new*

» Enums and ADTs

» Opaque Type Aliases

» Extension Methods

Features to cover during the session (2/2)

» Givens - The new Implicits

» Typeclasses

» Type Lambdas

» Intersection Types

» Union Types

» Explicit Nulls

» Strict/Multiversial Equality

» Using Scala 2 libraries with Dotty

Resources

Links

» This presentation: code and slides
https://github.com/hermannhueck/migration-scala2-scala3

» Other presentation (much more detailed for the different features):
code and slides
https://github.com/hermannhueck/taste-of-dotty

» Dotty Documention
https://dotty.epfl.ch/docs/

» Scala 2 Roadmap Update: the Road to Scala 3
https://www.scala-lang.org/2019/12/18/road-to-scala-3.html

Talks

» Martin Odersky (Lightbend Webinar): Scala 3 is Coming (published July 2019)
https://www.youtube.com/watch?v=U2tjcwSag_0

» Martin Odersky at ScalaSphere Krakow: Revisiting Implicits (published October 2019)
https://www.youtube.com/watch?v=h4dS5WRGJtE

» Nicolas Stucki at ScalaDays Lausanne: Metaprogramming in Dotty (published July 2019)
https://www.youtube.com/watch?v=ZfDS_gJyPTc

» Guillaume Martres at ScalaDays Lausanne: Future proofing Scala through TASTY (published July 2019)
https://www.youtube.com/watch?v=zQFjC3zLYwo

» Guillaume Martres at ScalaWorld GB: Scala 3, Type Inference and You! (published September 2019)
https://www.youtube.com/watch?v=lMvOykNQ4zs

More Talks

» Lukas Rytz at ScalaDays Lausanne: How are we going to migrate to Scala 3.0, aka Dotty? (published July 2019)
https://www.youtube.com/watch?v=KUl1Ilcf0b8

» Sébastien Doeraene at ScalaSphere Krakov: How will TASTy affect the Scala ecosystem, exactly? (published January 2020)
https://www.youtube.com/watch?v=_N7zNhLdB1Y

» Josh Suereth & James Ward at Devoxx Belgium: What's coming in Scala 3 (published November 2019)
https://www.youtube.com/watch?v=Nv-BzYOMiWY

» Jamie Thompson at f(by) 2020:
Taste the difference with Scala 3: Migrating the ecosystem and more (published February 2020)
https://www.youtube.com/watch?v=YQmVrUdx8TU

Thank You !

Questions ?

https://github.com/hermannhueck/migration-scala2-scala3

https://github.com/hermannhueck/taste-of-dotty