

Learning Resources

[Help Center](#)

Quick References

- [Scala Standard Library API](#)
- Akka [Reference Documentation](#) and [API](#)
- [RxScala API](#)
- [Scala Overview on StackOverflow](#): A list of useful questions sorted by topic

Learning Scala and Functional Programming

- The #progfun coursera class, [Functional Programming Principles in Scala](#), is a recommended pre-requisite for this class, and will remain open for you to refresh your knowledge of the material.
- [Martin's talk at OSCON 2011: Working Hard to Keep it Simple](#) (slides)
- Books:
 - **Structure and Interpretation of Computer Programs**. Harold Abelson and Gerald J. Sussman. 2nd edition. MIT Press 1996. - [\[Full text available online\]](#).
 - **Programming in Scala**. Martin Odersky, Lex Spoon and Bill Venners. 2nd edition. Artima 2010. - [\[Full text of 1st edition available online\]](#).

Artima has graciously provided a 25% discount on the 2nd edition of *Programming in Scala* to all participants of this course. To receive the discount, simply visit http://www.artima.com/shop/programming_in_scala_2ed and during checkout, please use the coupon code: COURSERA-ODERSKY to have the discount applied.

- **Scala for the Impatient**. Cay Horstmann. Addison-Wesley 2012. - [\[First part available for download.\]](#)
- **Scala in Depth**. Joshua D. Suereth. Manning 2012. - [\[Available for purchase\]](#).
- **Programming Scala**. Dean Wampler and Alex Payne. O'Reilly 2008. [\[Online edition\]](#).
- [Glossary of Scala and FP terms](#), for any issues with terminology.
- [Scala By Example](#), for more examples which illustrate concepts covered in the lectures.
- [Scala Cheatsheet](#), for a quick reference covering pattern matching syntax, for-comprehension syntax, and more.
- [Scala School!](#): A Scala tutorial by Twitter
- [A Tour of Scala](#): Tutorial introducing the main concepts of Scala

ScalaCheck (Week 1)

- [ScalaCheck User Guide](#)
- [ScalaCheck API](#)

Futures and Rx (Weeks 3, 4)

- [Rx Wiki](#)
- [async SIP](#)
- [Futures in the Scala Standard Library](#)

Distributed Systems (Weeks 5, 6, 7)

- An introduction to actor-based programming is the book **Akka Concurrency** by Derek Wyatt - [\[Available for purchase\]](#).
- [Presentation about testing actor systems](#) (R. Kuhn, ScalaDays 2012)
- from D. Westheide's series [The Neophyte's Guide to Scala](#):
 - [The Actor Approach to Concurrency](#) (for week 5)
 - [Dealing With Failure in Actor Systems](#) (for week 6)
- for further reading see [Advanced Reading in Distributed Systems](#)
- more background can be found in [Reactive Design Patterns](#), use code `kuhncourse` for a 50% discount

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