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January 18, 2022

0.1 Course Outline

Programming Language Pragmatics — (PLP)

Practical Foundations for Programming Languages — (PFPL)

Concepts in Programming Languages — (CPL)

Programming Ruby 1.9 &amp 2.0 — (PRuby)

Programming in Scala — (PrInScala)

Lectures	Topics	Readings	Resou
L1- Introduction	———	(PLP) *Chapter 1.3, 1.3, 1.5 (CPL) – 1.1* ———-	———
L2- Evolution of the Major Programming Languages	———	*(CPL) – Chapter 2* ———-	———
L3: Introduction to Ruby and OOP	———	Ruby for Beginners ———-	
L4: Ruby	———	See – Ruby for beginners	Ruby
L5: Ruby	———	PRuby – Chapter 5 ———-	Ruby
L6: Ruby	———	PRuby – Chapter 23 ———-	———
L7: Ruby	———	PRuby – Chapter 24 ———-	———
L8: Ruby	———	PRuby – Chapter 24 and 25 ———-	———
L9: Functional Programming	———	PLP(CH 11.1 – 11.2) ———-	———
L9: Functional Programming	———	slides ———-	———
L10: Functional Programming	———	PrInScala(Ch – 4 -6) ———-	———
L11: Functional Programming	———	PrInScala(Ch – 7 -9) ———-	———

0.2 Text Books

Michael L. Scott, Programming Language Pragmatics (PLP), 4th Ed., Morgan Kaufmann, 2015

Robert Harper, Practical Foundations for Programming Languages (PFPL), 2nd Ed. Cambridge University Press, 2016.

Robert W. Sebesta Concepts in Programming Languages (CPL), 11th Ed., Cambridge University Press, 2015.

Dave Thomas, Chad Fowler, Andy Hunt Programming Ruby 1.9 &2.0 (PRuby), 3rd Ed., The Pragmatic Bookshelf, 2009.

Martin Odersky, Lex Spoon, Bill Venners, Frank Sommers Programming in Scala (PrInScala), Artima Press, 2021

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