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These notes cover some aspects of financial risk and analytics. This includes classical topics such as Value at Risk and expected shortfall, as well as structures of random dependence. Credit default is treated via defaultable bonds, Credit Default Swaps (CDS) and collateralized debt obligations (CDOs), based on stochastic calculus. Basic risk Theory and credit scoring are presented with examples in R. The concepts presented are illustrated by examples and by 35 exercises with their complete solutions.