

Python for Finance-I

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Introduction to Python

- Functions
- Iterations
- Conditions

Python Libraries

- Introduction to Pandas
- Introduction to Numpy
- Introduction to Matplotlib
- Introduction to Scipy
- Introduction to Seaborn

Main Concepts

- Risk
- Return
- Correlation
- Covariance
- Risk-Return Relationship
- Exercises

Main APIs

- Yahoo Finance
- FRED
- Quandl
- WRDS
- World Bank Database

Linear Regression Application

- Application of Linear Regression
- Interpretation of Regression Result
- Assumptions of Linear Regression
- Exercises

Main Models

- Asset Pricing Models
- Capital Asset Pricing Model
- Arbitrage Pricing Theorem
- Exercises

Main Concepts

- Net Present Value
- Internal Rate of Return
- Python Applications

Thank You