

3.2: Assumptions in Regression Models

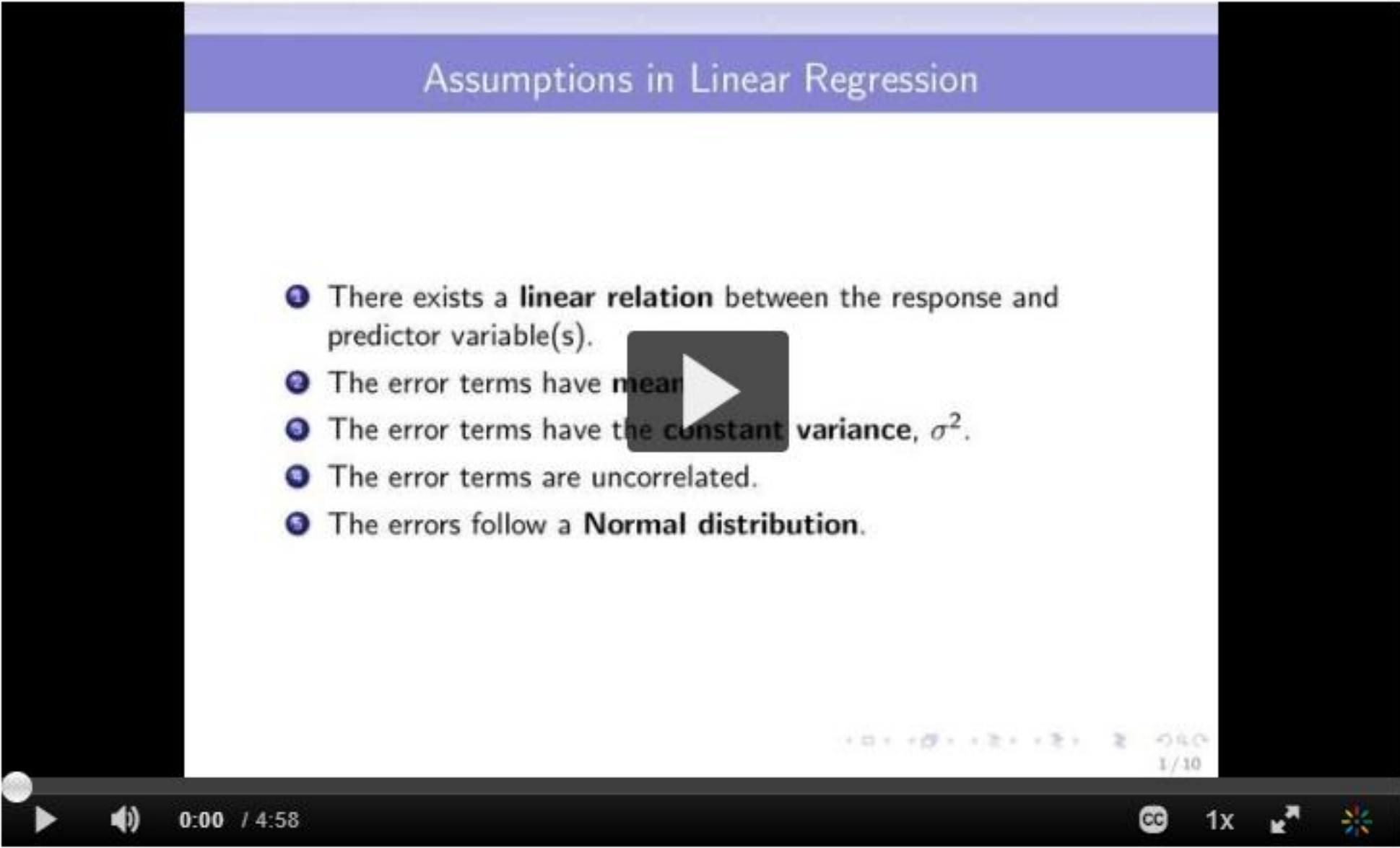
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Topic 3.2: Assumptions in Regression Models

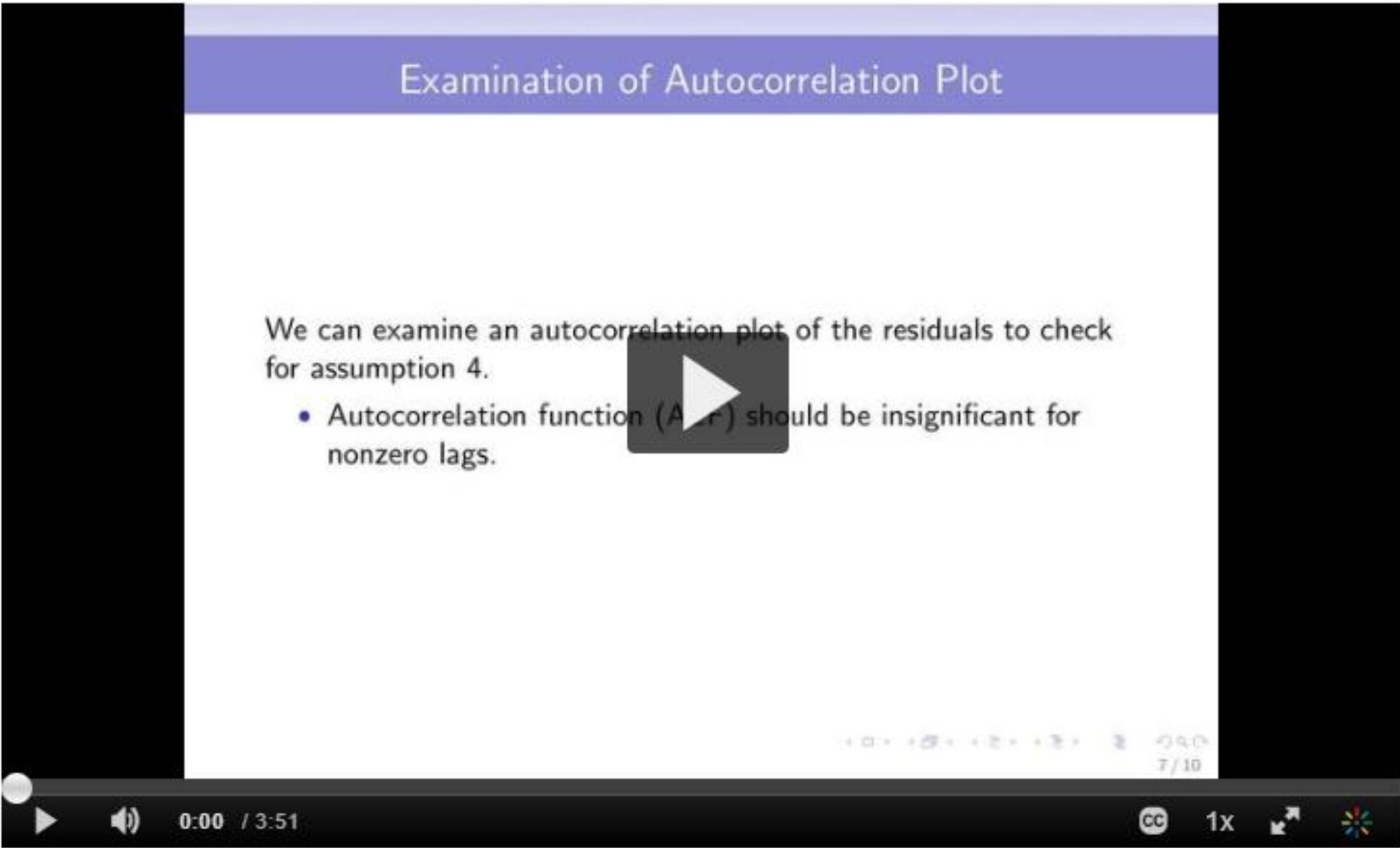
Read Sections 4.1 and 4.2.3 of your textbook. As you read, take notes on the following.

- 1
- Write down the assumptions for a regression model.
- 2
- What are the consequences when the assumptions are not met?
- 3
- Explain how we can use a scatter plot and a residual plot to assess the assumptions for a regression model.
- 4
- Explain how we can use an autocorrelation plot to assess the assumptions for a regression model.
- 5
- Explain how we can use a normal probability (QQ) plot to assess the assumptions for a regression model.

Watch this video, which explains the features of a residual plot when the regression assumptions are met and common features when the assumptions are not met.



Watch this video for an explanation of how we use an ACF plot to assess whether the residuals are independent.



 [mod3_assumptions.pdf](#)
Slides to accompany the "Assessing Regression Assumptions" videos