# 2019/5/12

























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# Guideline: Cohesive Responsibilities; Diameter Maintain a Separation of Concerns

- □ The responsibilities of the objects in a layer should be strongly related to each other and should not be mixed with other layers.
  - OUI objects should focus on UI work, such as creating windows and widgets, capturing mouse and keyboard events.
    Objects in the application logic or "domain" layer should
  - focus on application logic or "domain" layer should focus on application logic, such as calculating a sales total or taxes, or moving a piece on a game board.
  - OUI objects should not do application logic. e.g., a Java Swing JFrame object should not contain logic to calculate taxes or move a game piece.
  - Application logic classes should not trap UI mouse or keyboard events. .
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# Cohject-oriented Analysis and Design Guideline: Model-View Separation Principle 2 Model-View-Controller (MVC). data objects (models), GUI widgets (views), and mouse and keyboard event handlers (controllers). "MVC" has been applied on a large-scale architectural level. The Model is the Domain Layer, the View is the UI Layer, and the Controllers are the workflow objects in the Application layer. A related pattern of this principle is the Observer pattern. e.g. a JFrame window should not have a method that does a

tax calculation. A Web JSP page should not nave a method that does a tax calculation. A Web JSP page should not contain logic to calculate the tax. These UI elements should delegate to non-UI elements for such responsibilities.

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