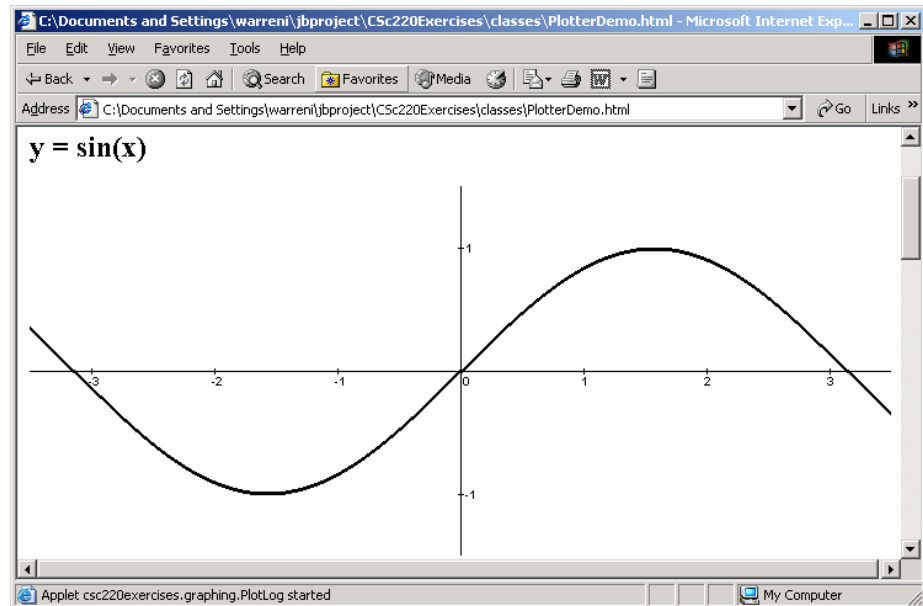


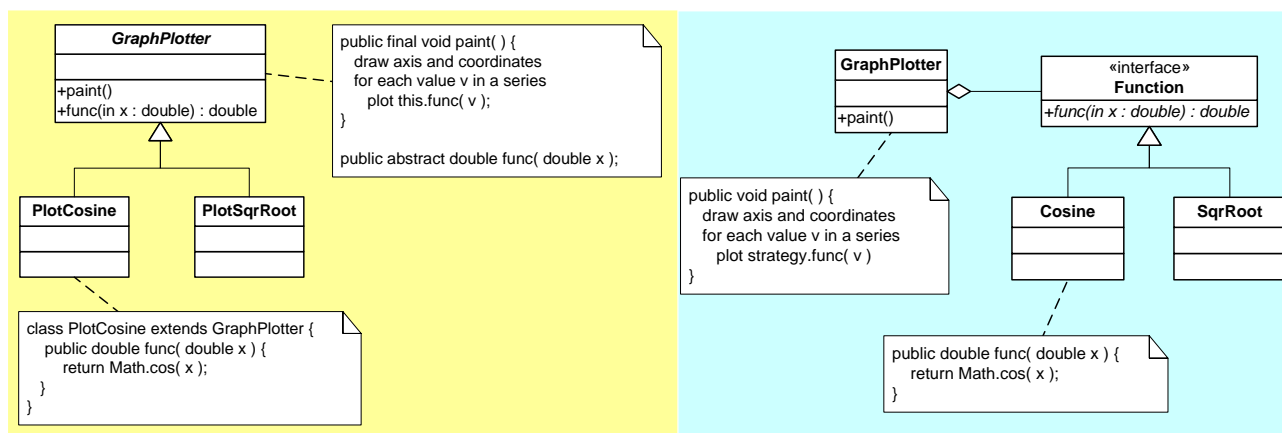
# Template Method vs Strategy

You want to write an application which plots mathematical functions.

The application should be extensible with respect to the functions which can be plotted



# Template Method vs Strategy



# Evaluation

## Template Method solution

- Flexibility
  - Compile-time flexibility only – a subclass of GraphPlotter can be written to plot any mathematical function
- Reuse
  - As strategy
- Robustness
  - Like the Strategy solution, the GraphPlotter class enforces the structure of the graph-drawing algorithm – but by delegating steps of the algorithm to a subclass

## Strategy-based solution

- Flexibility
  - A GraphPlotter object can be configured with any Function object; the Function object can be replaced at run-time
- Reuse
  - Class GraphPlotter can be reused to plot any kind of mathematic function
- Robustness
  - The GraphPlotter class enforces the structure of the graph-drawing algorithm; a GraphPlotter instance delegates steps of the algorithm to its Function object