

# Sequence Diagrams

October 16, 2007

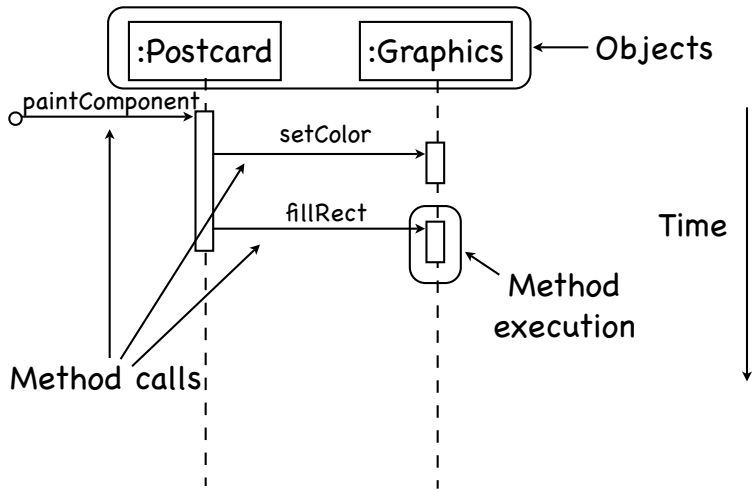
1

## Digging deeper...

- ◉ Examine interesting methods.
  - ◉ What information do they need?
  - ◉ Where does that information come from?
  - ◉ What objects do they need to interact with?
  - ◉ What methods do they need to call?

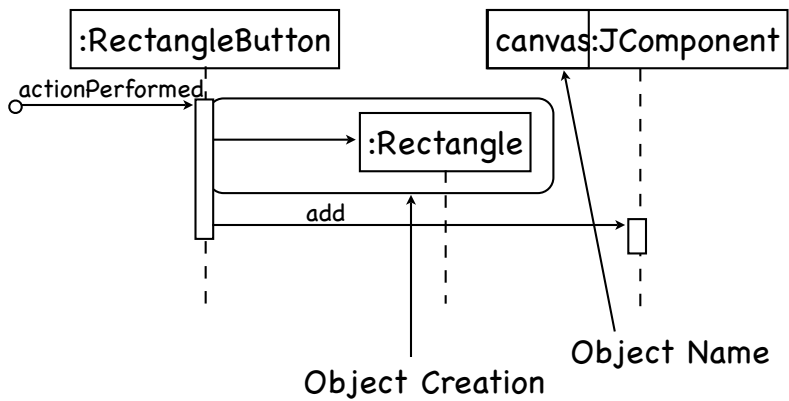
2

# Sequence Diagram Notation



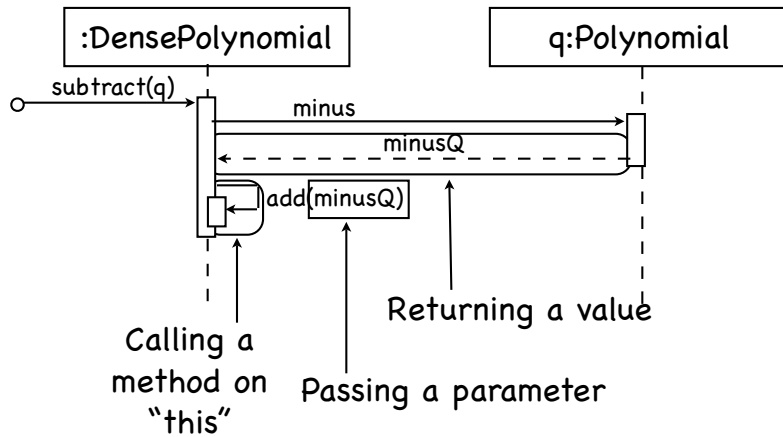
3

# Constructing Objects



4

## Returning Values



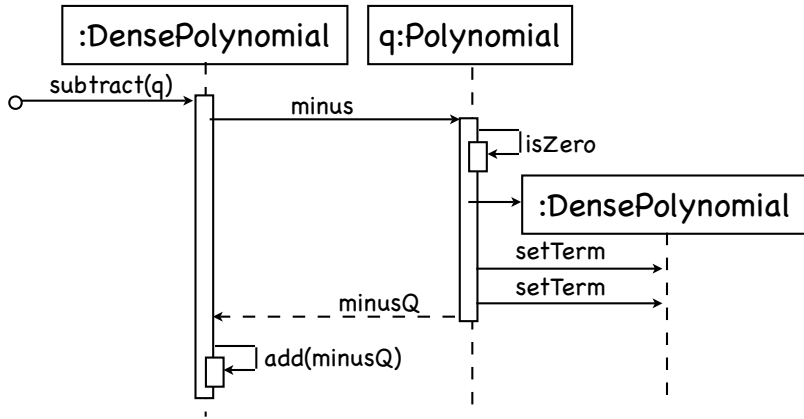
5

## Conditionals & Loops

- UML 2 allows documenting conditionals and loops
- BUT, diagrams quickly become complicated and less useful
- Recommendation: Use a sequence diagram to document a particular situation, not model all control flow at once
- Put a note in your diagram describing its assumptions

6

# Limiting Sequence Diagrams



Subtracting a non-zero polynomial with 2 terms.

7