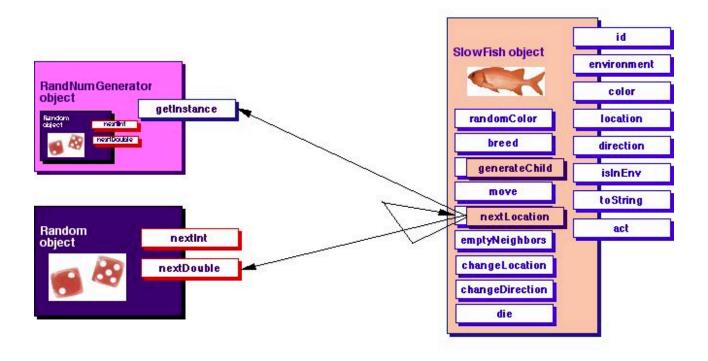
# **Marine Biology Simulation Case Study**

## SlowFish: nextLocation method



#### General Outline:

### SlowFish nextLocation method

- A. calls RandNumGenerator.getInstance, which returns a Random object
- B. asks the Random object for a random double
- C. uses the random double as a probability to determine whether to move beyond the current cell
- D. calls super.nextLocation to actually move when appropriate

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## Go to diagrams for:

Overview: Cast of Characters | The Driver

**Initial Program:** Simulation: step | Fish: act and move | nextLocation | emptyNeighbors

Breeding and Dying: Fish: modified act method | move | breed | die

Specialized Fish: DarterFish | DarterFish: move | SlowFish: nextLocation

Environment Implementations: Environment Class Hierarchy