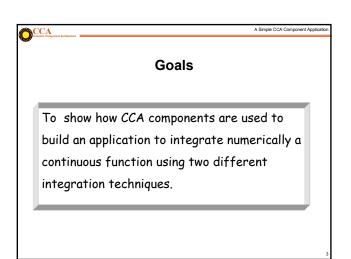
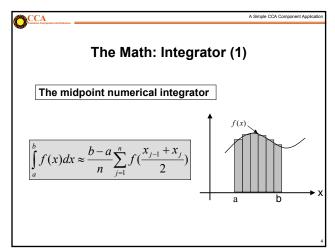


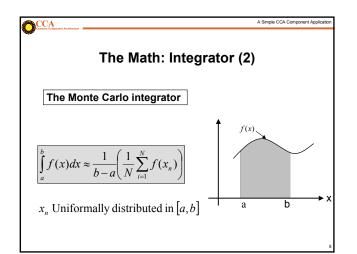


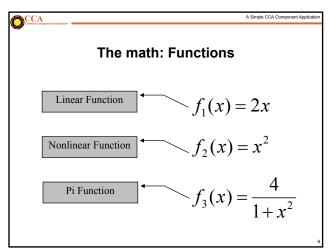
## **Module Overview**

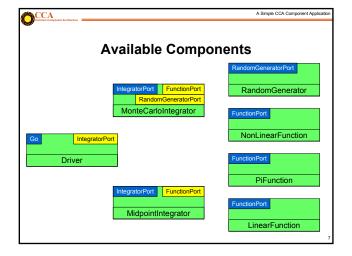
- What the example does: the math.
- From math to components: the architecture.
- The making of components: inheritance and ports.
- Framework-component interactions.
- Putting it all together: the CCafeine ways.
- · The application in action.

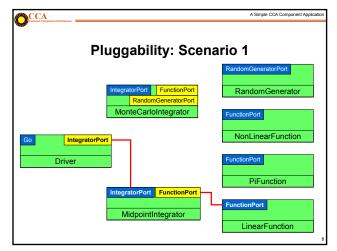


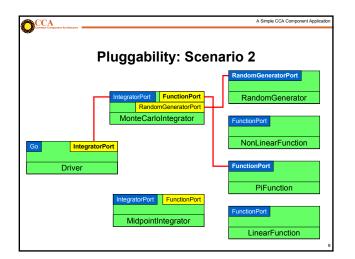


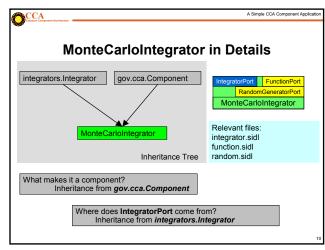


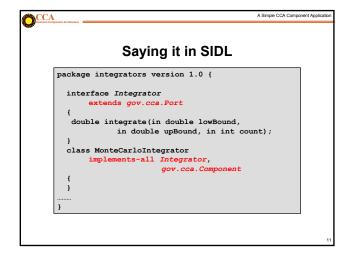


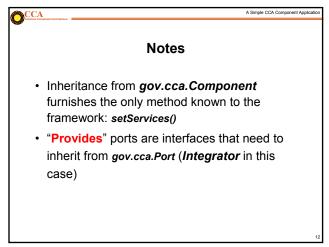


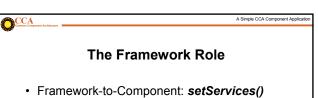












- - Called after the component is constructed.
  - The component's chance to identify:
    - Ports it provides addProvidesPort()
    - Ports it uses registerUsesPort()
  - Component should not acquire the port here -Reason: it may not be there yet !!!!
  - Also used to "shutdown" the component.



## Component-to-Framework

- Mainly through Services object passed through setServices().
- addProvidesPort(), registerUsesPort():
  - Component "pointer", PortName, PortType, PortProperties.
- - Called by the using component.
- Matching using portType (not name).
- · releasePort(), removeProvidesPort():
  - When all is done.

