



# SNS College Of Technology

(An Autonomous institution)

Coimbatore

**COURSE NAME: 19CST103- OBJECT  
ORIENTED PROGRAMMING**

**UNIT:V**

**TOPIC : APPLET**

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## DEFINITION

Applet is a special type of program that is embedded in the webpage to generate the dynamic content. It runs inside the browser and works at client side.





# INVENTOR



- Andre Morton - CEO/Co-Founder - AppLet | LinkedIn.



James Gosling  
(creator of Java).



# LOGO OF APPLET





## ADVANTAGE

- It works at client side so less response time.
- Secured
- It can be executed by browsers running under many platforms, including Linux, Windows, Mac Os etc.

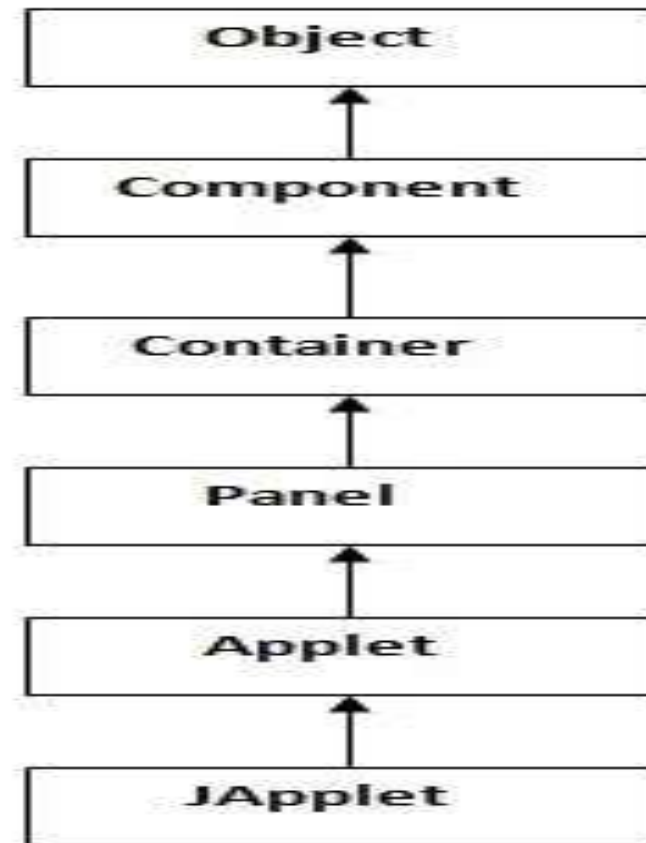


# DRAWBACK OF APPLET

- Plugin is required at client browser to execute applet.

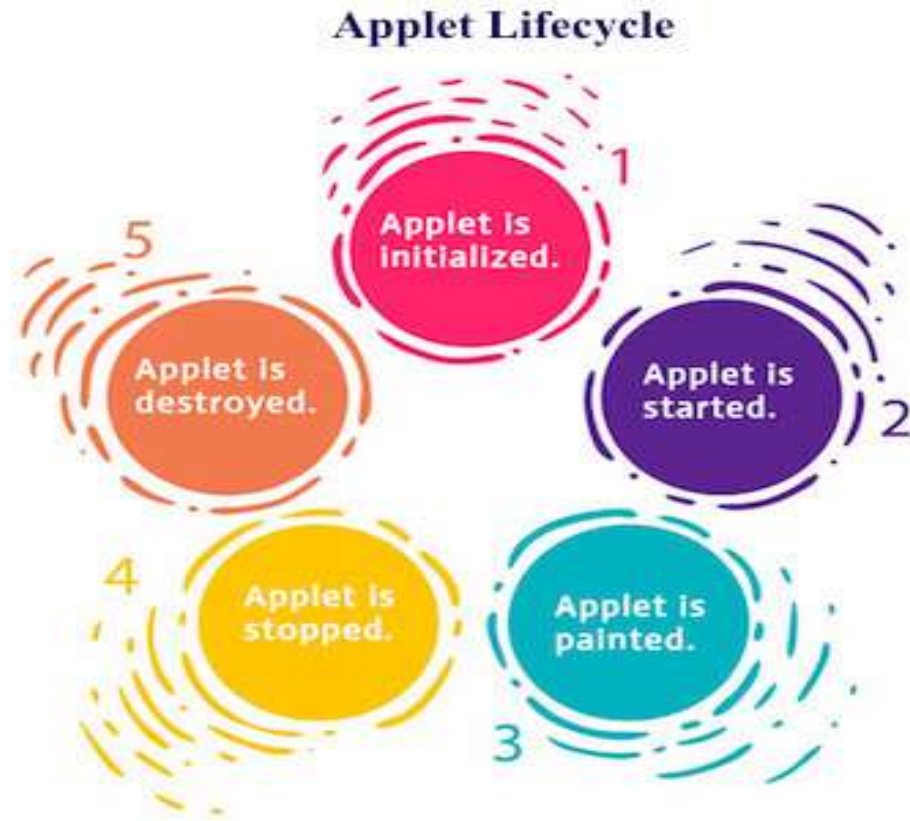


# HIERARCHY OF APPLET





# APPLET LIFECYCLE







# LIFECYCLE METHODS FOR APPLET

1. **public void init():** is used to initialize the Applet. It is invoked only once.
2. **public void start():** is invoked after the init() method or browser is maximized. It is used to start the Applet.
3. **public void stop():** is used to stop the Applet. It is invoked when the Applet is stopped or the browser is minimized.
4. **public void destroy():** is used to destroy the Applet. It is invoked only once.



- `java.awt.component` class
  - The component class provides 1 life cycle method of applet
- **Public void paint(Graphics g):** is used to paint the applet. It provides graphics class object that can be used for drawing oval, rectangle, arc etc



# HOW TO RUN APPLET

1. By html file.
2. By appletViewer tool (for testing purpose).



# METHOD OF GRAPHICS CLASS

1. **public abstract void drawString(String str, int x, int y):** is used to draw the specified string.
2. **public void drawRect(int x, int y, int width, int height):** draws a rectangle with the specified width and height.
3. **public abstract void fillRect(int x, int y, int width, int height):** is used to fill rectangle with the default color and specified width and height.
4. **public abstract void drawOval(int x, int y, int width, int height):** is used to draw oval with the specified width and height.
5. **public abstract void fillOval(int x, int y, int width, int height):** is used to fill oval with the default color and specified width and height.



# SIMPLE EXAMPLE

```
<html>  
<body>  
<applet code="First.class" width="30  
0" Height="300">  
</applet>  
</body>  
</html>
```



# EXAMPLE

- Import java.applet.Applet;
- Import java.awt.Graphics;
- Public class First1 extends Applet
- {
- Public void paint(Graphics g)
- {
- g.drawString("welcome",150,150);
- }
- }
- `//<applet code="First1.class"width=500 height=500></applet>`



# HOW TO SAVE

- Javac First.java
- appletviewerFirst1.java



# OUTPUT

Welcome





# GRAPHICS IN APPLET

- Graphics class provides many methods for graphics programming.



# USES OF APPLETS

- Here many types of web applications and numerous ways in which applets may be applied. We will narrow down our illustrations to the learning environment. One thing that has revolutionized teaching skills on the Internet is the use of dynamic content. Let us examine the uses and applications of applets within this math web application called [quikercalculations.com](http://quikercalculations.com).





**Thank  
You**