



# Introduction to Applets in Java

Discover the power of applets in Java and how they can enhance your application's functionality.



**by Ranjeet Kaur**

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# What are Applets?

## ① Dynamic Web Elements

Applets are Java programs that can be embedded in web pages to create interactive content.

## ② Rich User Experience

Immerse your users in engaging multimedia, including animations, interactive graphics, and more.

## ③ Platform Independence

Run applets on any platform with Java Virtual Machine (JVM) support, regardless of the operating system.

# Creating Applets

## Applet Lifecycle

- Init
- Start
- Paint
- Stop
- Destroy

## Applet Tags

- `<applet>`
- `<param>`
- `<object>`
- `<embed>`
- `<object>`

## Code Structure

Extend the Applet class, override methods, and add applet-specific code.

# Applet Deployment

## ① Web Hosting

Upload the compiled .class file to a web server supporting applet deployment.

## ② HTML Integration

Embed the applet in an HTML page using applet tags and set corresponding attributes.

## ③ Browser Compatibility

Ensure your applet is compatible with various web browsers and Java versions.

# Applet Examples

## Interactive Games

Create captivating game experiences with real-time interactions and animations.

## Data Visualizations

Display complex data in graphical formats, such as charts and diagrams.

## User Registration

Build registration forms with validations and interactive elements.



# Applet Security

- ▶ Ensuring User Safety
- ▶ Signed Applets
- ▶ Java Security Manager

# Applet vs. Application

## Applets

- Embedded in web pages
- Less control over system resources
- Rely on browser sandbox

## Applications

- Stand-alone programs
- Full control over system resources
- Deployed independently

# Applet Development Tools

## ① Integrated Development Environments (IDEs)

Popular IDEs for applet development include Eclipse, NetBeans, and IntelliJ IDEA.

## ② Compiler and Debugger

Utilize the Java Compiler and Debugger to compile and debug your applets.

## ③ Applet Viewer

Test your applets using the Applet Viewer, a built-in tool in the JDK.

# Conclusion

Applets offer a dynamic and interactive way to enhance web applications. Try them out and unlock the full potential of Java programming!

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