
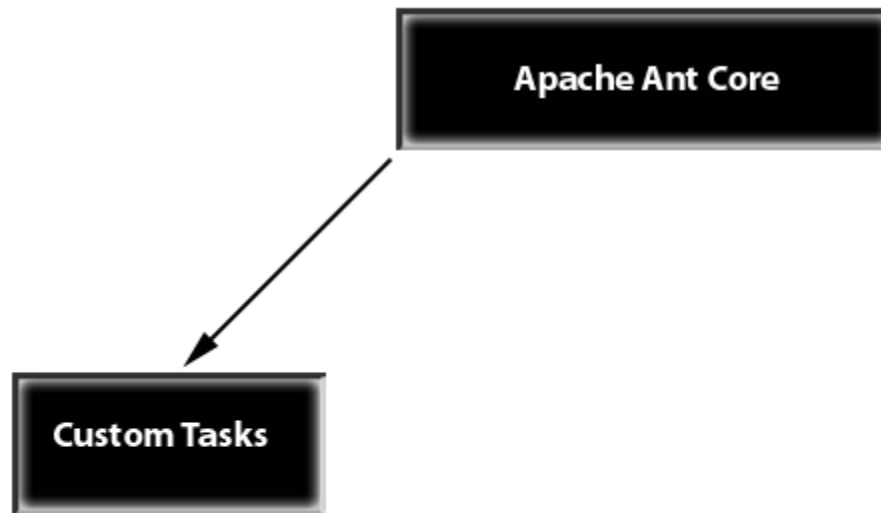


# Extending Ant

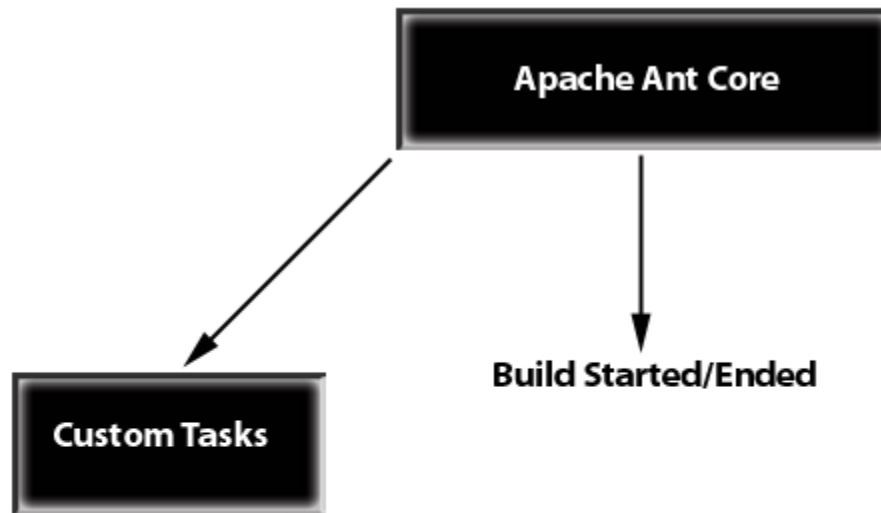


Apache Ant Core

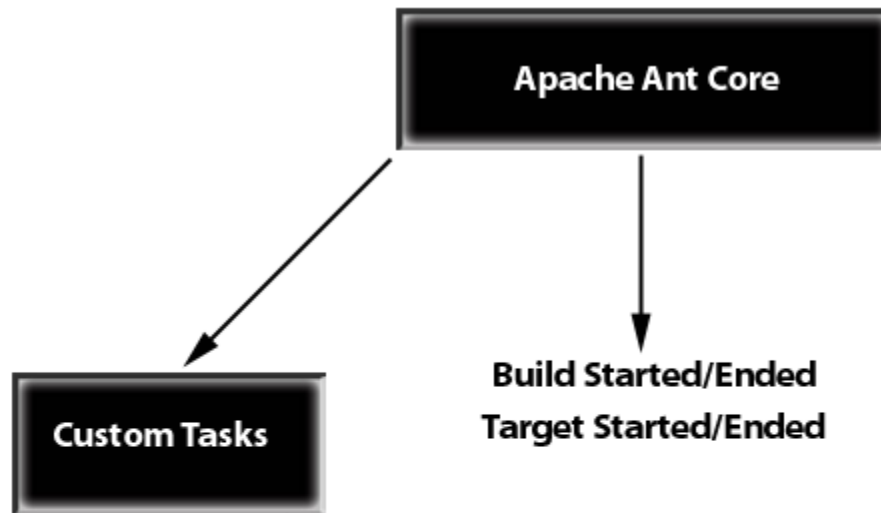
# Extending Ant



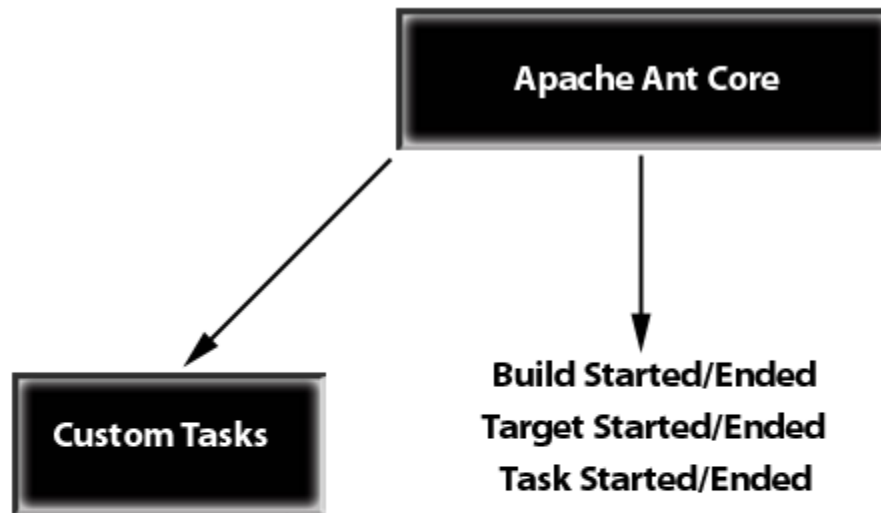
# Extending Ant



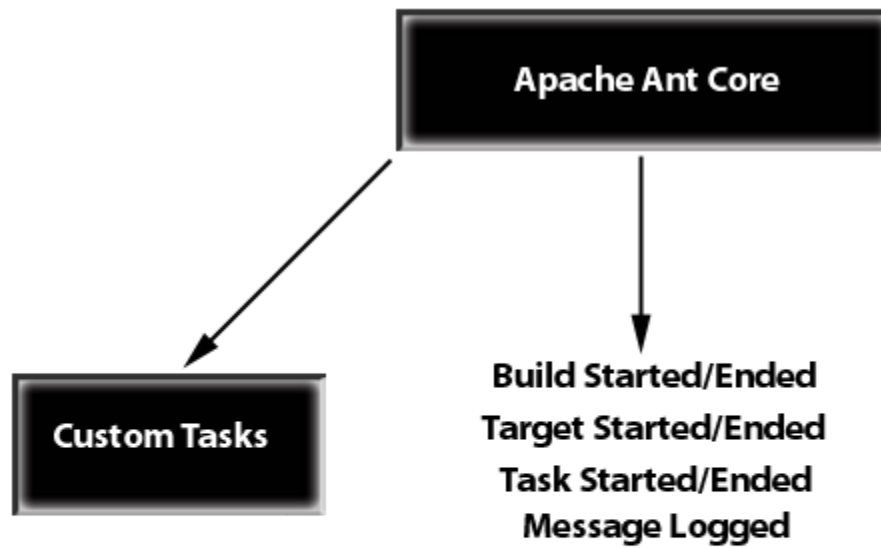
# Extending Ant



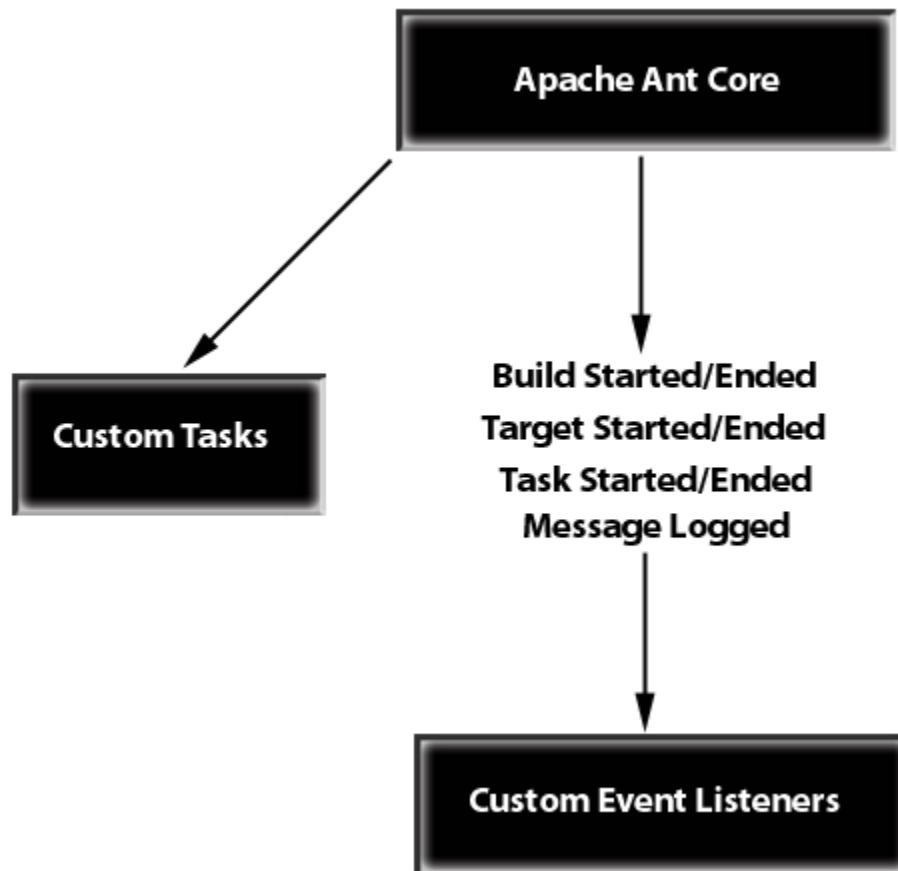
# Extending Ant



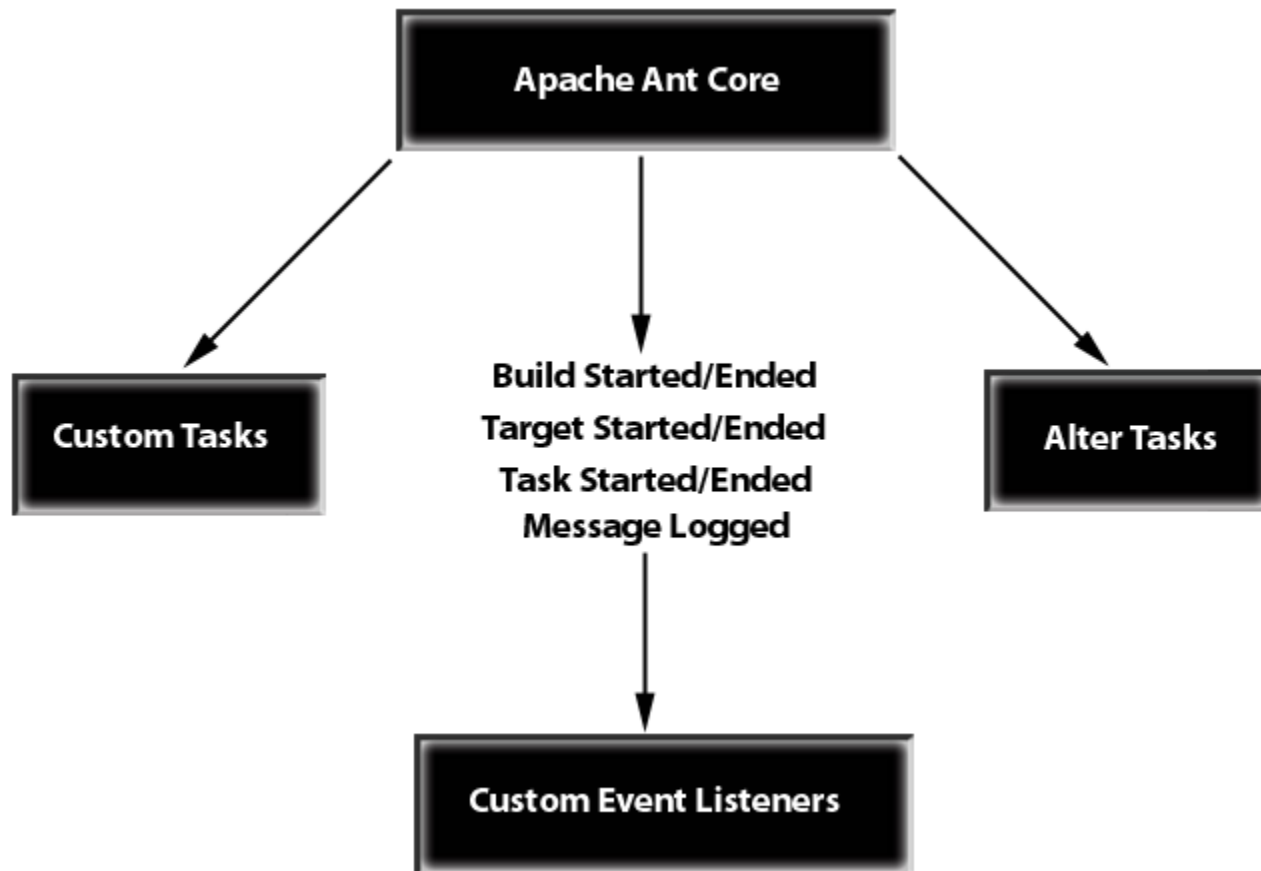
# Extending Ant



# Extending Ant



# Extending Ant





# Course Summary



# Course Summary

# Course Summary

**<javac>**

# Course Summary

**<javac>**  
**<jar>**  
**<ear>**  
**<war>**

# Course Summary

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**<war>**  
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# Course Summary

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# Course Summary

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# Course Summary

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# Course Summary

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          <jar>      <javadoc>  
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 <war>  
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      <cvs>      <junit>  
          <junitreport>

# Course Summary

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**<junitreport>**

# Course Summary

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<war>                      <mkdir>                      <replaceregexp>  
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 <get> <propertyfile>  
 <fixcrlf> <replace> <xmlproperty>  
 <cvsv> <junit> <mail>  
 <junitreport> <ftp> <xslt>  
 <xmlvalidate>

# Selecting Files/Directories

- **PatternSet** – Groups of patterns of files or directories
- **DirSet** – Groups of directories
- **FileSet** – Groups of files
- **FileList** – Explicit list of files

# **FileMapper**

- **identity** – Target filename identical to source filename
- **flatten** – Directory structure is flattened
- **merge** – Target filename is the same for all source files
- **glob** - Glob matching used on files
- **regexp** – Regular expression matching used on files
- **package** – Based on Java package of source files

# FilterReader

- **stripjavacomments** – Removes java comments from .java files
- **striplinecomments** – Removes user-defined comment lines
- **striplinebreaks** – Removes end-of-line characters
- **classconstants** – Outputs name/value pairs of constants in class files

# FilterReader

- **tabstospaces** – Replaces tabs with a given number of spaces
- **headfilter** – Returns only the top given number of lines
- **tailfilter** – Returns only the bottom given number of lines
- **linecontains** – Copies only lines containing a given string
- **linecontainsregexp** – Copies only lines matching a regexp
- **prefixlines** – Adds a string to the beginning of every line
- **expandproperties** – Expands Ant properties



# Selectors

- **date**
- **present**
- **size**
- **contains**
- **containsregexp**
- **depend**
- **depth**
- **different**

# Selectors

- type
- modified
- signedselector
- scriptselector
- readable
- writable

# Path

```
<path id="classpath">  
  <pathelement path="{servlet.dir}/servlet.jar" />  
  <pathelement path="{javamail.dir}/mail.jar" />  
  <fileset dir="{lib.dir}">  
    <include name="**/*.jar" />  
  </fileset>  
</path>
```

# Loggers

- **DefaultLogger**
- **NoBannerLogger**
- **TimestampedLogger**
- **BigProjectLogger**
- **SimpleBigProjectLogger**
- **ProfileLogger**
- **AnsiColorLogger**
- **MailLogger**
- **Log4JListener**
- **XmlLogger**

# End-to-End Build



Team Development



Fetch Source Code

**COMPILER**

Compile the Code

**JUnit**

Test the Code



Archive the Code

**FTP**

Deploy

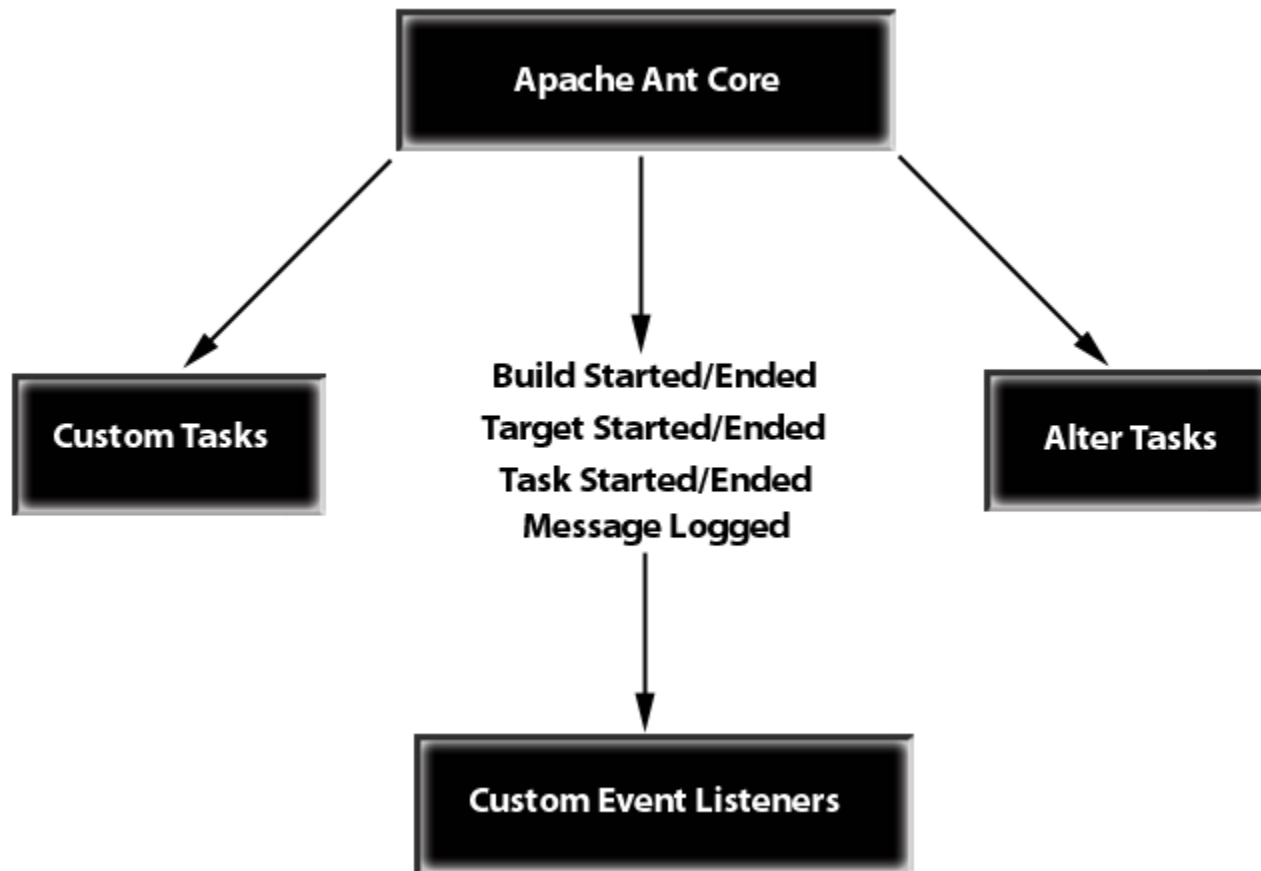
Send Reports



Remote Server



# Extending Ant



**Thank You!**

