



# Apache Maven

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Beginner to Guru

Maven Coordinates



## Maven Coordinates

- Maven Coordinates are used to identify artifacts
- Together, they identify a 'location' in a Maven repository.
  - **groupId** - Typically unique to an organization. Often the organization's reverse domain is used.  
But not always. Can be just 'junit'.
  - **artifactId** - typically the project name. A descriptor for the artifact
  - **version** - refers to a specific version of the project.
- **groupId** and **version** can be inherited from a parent POM.





## Maven Versions

- Example - 3.2.1-987-beta
- **Major Version** - first number - 3
- **Minor Version** - second number - 2
- **Incremental Version** (patch) - third number - 1
- **Build Number** - from CI Build - 987
- **Qualifier** - String Qualifier - 'beta'
- Most common in use is just major.minor.incremental (3.2.1)





## Snapshot Versions

- Example - 3.2.1-SNAPSHOT
- The SNAPSHOT suffix is an important qualifier to Maven behavior
  - Tells Maven this is a development version
  - Not stable, and Maven should check for newer versions
  - Maven will first check locally, then check remote repositories
  - By default, Maven will check remote repositories once per day
    - Option is configurable.





