

Packages:

- package is a namespace that organizes classes and interfaces.

Jar files:

- Jar files are a way to contain multiple .class files together.

⚡ Note: packages are generally accessed through the website's name backwards

Access control:

Modifier	Class	Package	Subclass	World
public	Yes	Yes	Yes	Yes
protected	Yes	Yes	Yes	No
None	Yes	Yes	No	No
private	Yes	No	No	No

private = only code from the given class can access.

Package private (default): only classes in same package

protected = classes & subclasses.

public: Anyone

⚡ Access is based on static type

Objects:

All classes have some basic object methods.

- toString() → overridden to gain a personal way to represent things
- equals() → looks at bits in box, not just value.
- hashCode()

Rule of Equals: (for overriding .equals())

- Equivalence relation
 - reflexive, symmetric, transitive
- Takes an object argument
- Is consistent
- Always false for Null