

# Creating new model elements

Use the [com.nomagic.uml2.impl.ElementsFactory](#) class for creating model elements. To create a model element, a session with the [com.nomagic.magicdraw.openapi.uml.SessionManager](#) must be created.



The `create<model element type>Instance()` method creates a new model element instance. The figure above shows only a subset of all available `create<...>Instance()` methods.

All changes in the UML model will be registered and, on the session closing, will be added into the command history.

```
Project project = ...;
ElementsFactory f = project.getElementsFactory();
SessionManager.getInstance().createSession(project, "Create a package");
Package packageA = f.createPackageInstance();
//add created package into a root of the project
packageA.setOwner(project.getPrimaryModel());
...
// apply changes and add a command into the command history.
SessionManager.getInstance().closeSession(project);
```



You can find the code examples in `<modeling tool installation directory>\openapi\examples\accessors`

## Related pages

- [Session management](#)
- [Creating a diagram](#)