UML class diagram && && starUML

计63 李家惠 2017.5

Contents

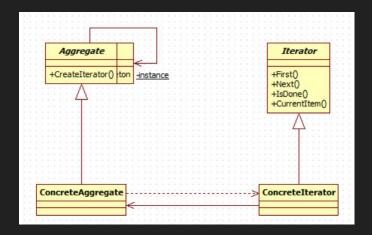
- O UML
- O UML class diagram
- StarUML

UML

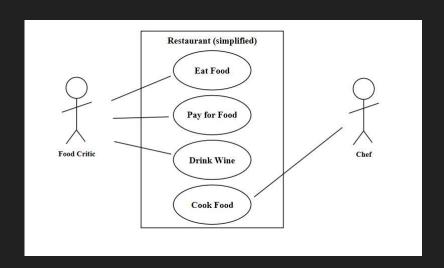
- Unified Modeling Language
- O Elements:
 - o any activities;
 - o individual components;
 - o how they can interact with other software components;
 - o how the system will run;
 - components and interfaces;
 - o user interface.

UML building

Structure diagrams



Behavior diagrams



UML class diagram

- Class
- Associations

class

- OClass name
- OClass attribute list
 - Oname: attribute type
 - Oname : attribute type = default

value

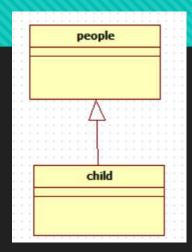
- OClass operations list
 - oname(parameter list) : type of
 value returned
 - oparameter list:

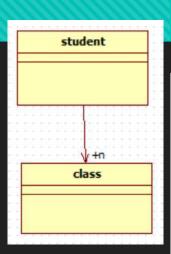
name: attribute type

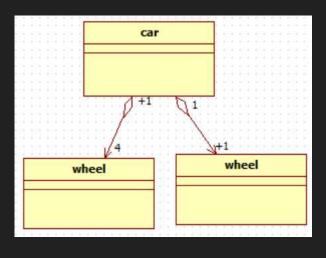


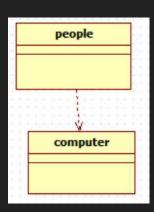
Associations

- inheritance
 - O Generalization(泛化)
- composition
 - Association
 - O Aggregation(聚合)
- O Dependency



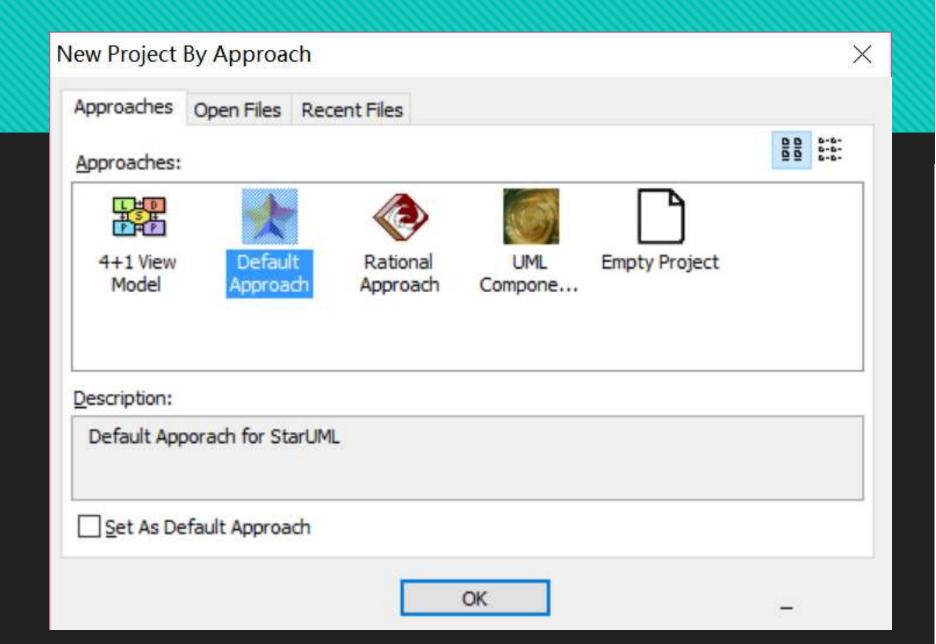


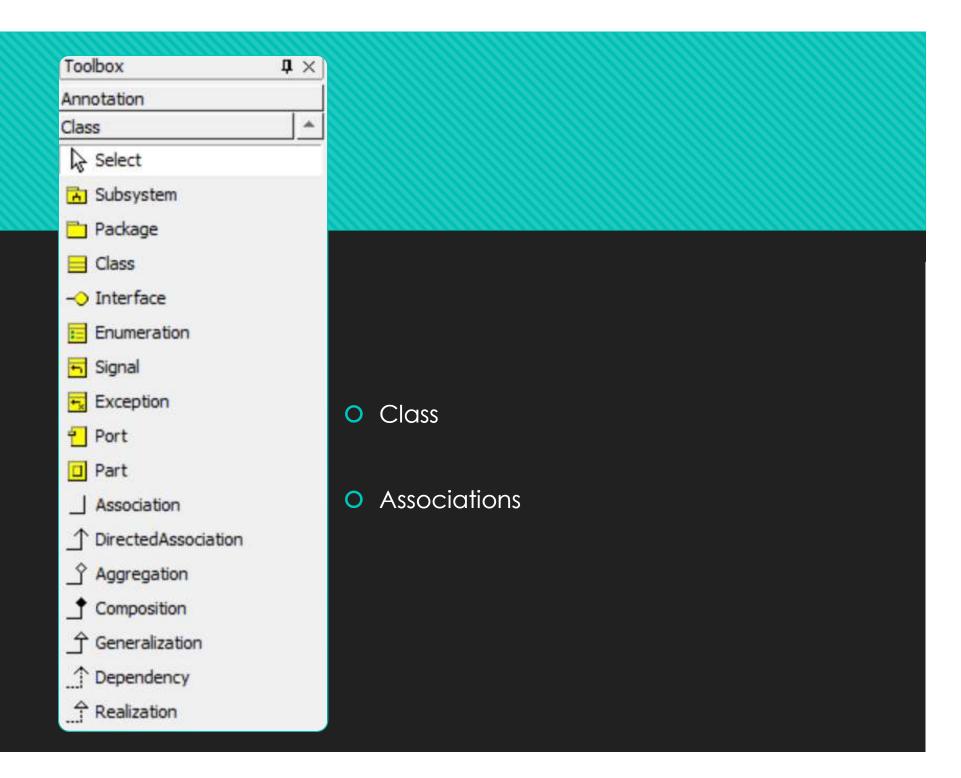




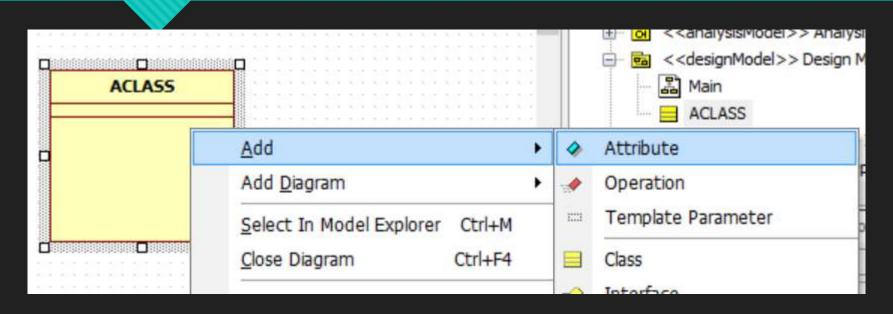
starUML

- Open source (WhiteStarUML)
- O http://staruml.io/
- O https://sourceforge.net/projects/whitestaruml/

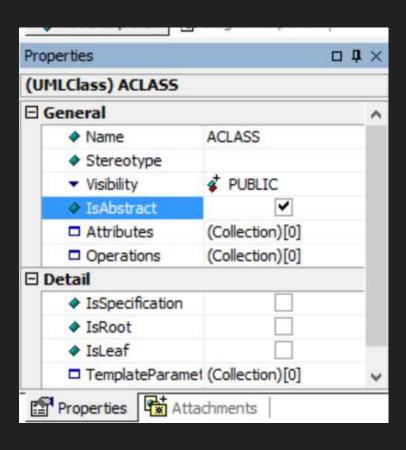




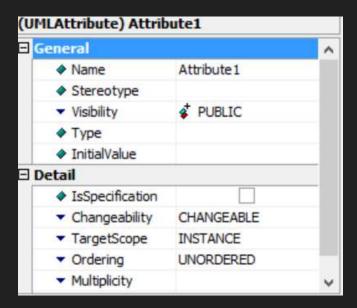
class



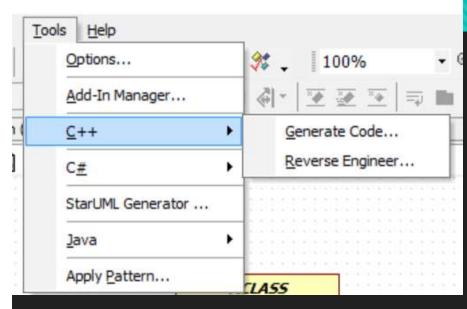
- Attribute
- Operation

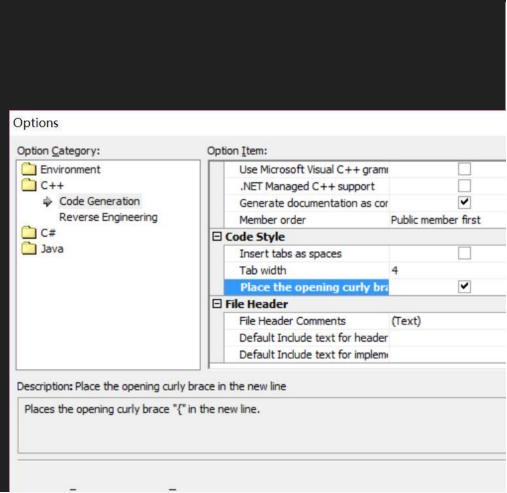


- Visibility
- isAbstract
- O Type
- O Initialvalue



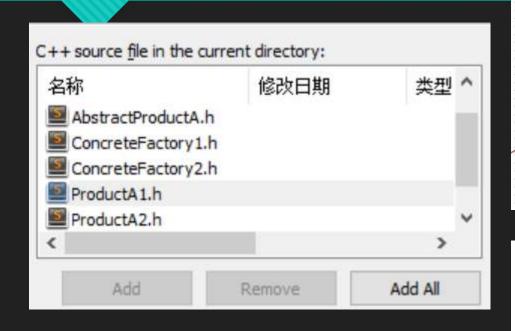
Code generate

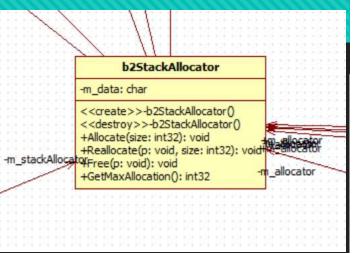


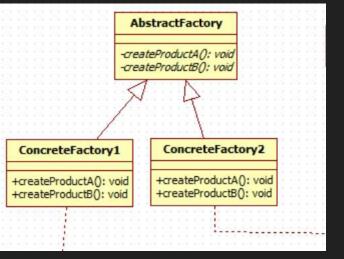


```
ConcreteCreator.cpp
ConcreteCreator.h
ConcreteProduct.cpp
ConcreteProduct.h
Creator.h
product.cpp
product.cpp
```

reverse







THANKS~