## Design principles

Principle	Description
Keep it simple	Try to make your design simple to implement, simple to understand,
	simple to maintain, simple to test
Keep it flexible	It should be easy to change your design
	Technology changes
	Changes in the business logic
Loose coupling	If A talks to B, then A and B should have the least amount of dependency at
	each other. A and B can be objects, components or applications
Separation of	Separate
concern	Technology from business
	Stable code from changing code
	<ul> <li>Business process from application logic</li> </ul>
	Implementation from specification
Information hiding	Hide the internal details from the client.
Modularity	Divide the whole system in smaller, independent subsystems
Open Closed	Your design should be open for extension, but closed for change
principle	
Don't repeat	Write functionality at one place and only at one place.
yourself	No copy/paste of code
	Avoid code scattering
Program to an	If we program to an interface, our code is only dependent on that
interface, not an	interface, instead of an implementation. This allows us to plug-in another
implementation	implementation.
High cohesion, low	We want a lot of interaction within an object, a component or an
coupling	application, and we want very low interaction between objects,
	components or applications
Liskov Substitution	Subclasses should be substitutable for their base classes. The result of this
principle	is that you should only use inheritance in a real "IS-A" relationship
Single responsibility	A class has only one responsibility.
principle	There should never be more than one reason for a class to change
Interface	Clients should not be forced to depend on methods they do not use
Segregation	
Principle	
Dependency	High-level modules should not depend on low-level modules. Both should
Inversion Principle	depend on abstractions