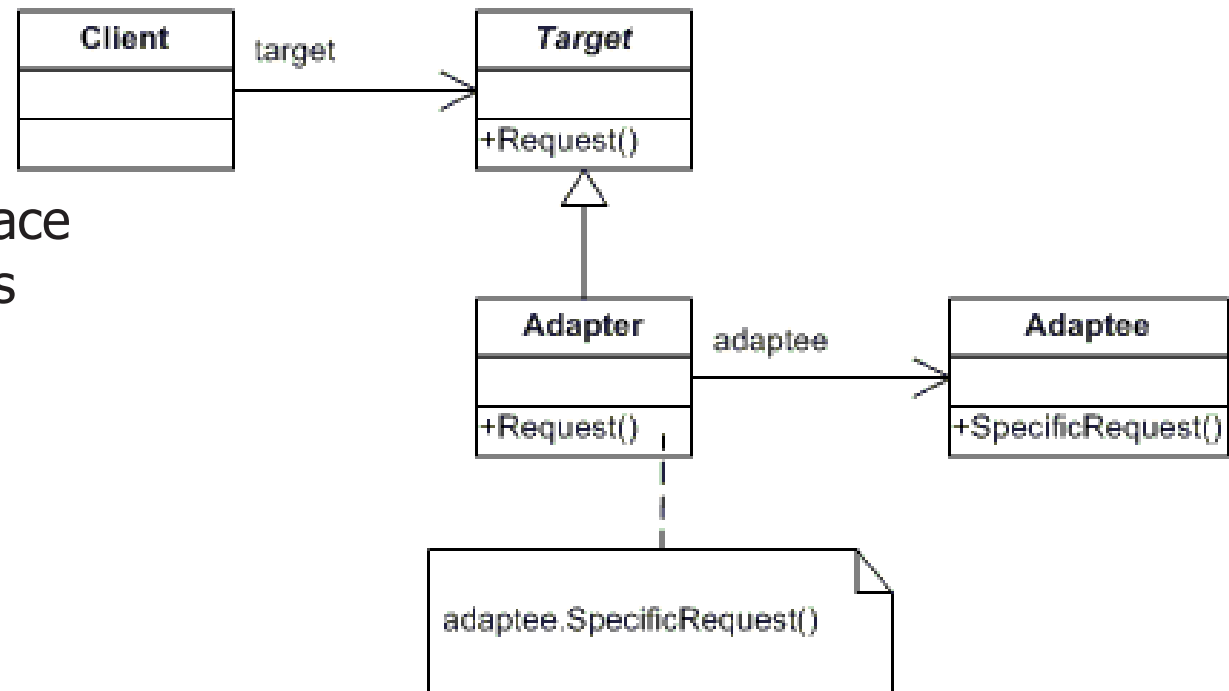


Overview of STL Adapters

STL Adapters

- STL adapters implement the *Adapter* design pattern
 - i.e., they convert one interface into another interface clients expect



See en.wikipedia.org/wiki/Adapter_pattern

STL Adapters

- There are three main types of adapters in STL



STL Adapters

- There are three main types of adapters in STL
- Iterator adapters
 - e.g., `back_inserter()`, `front_inserter()`, `inserter()`, `reverse_iterator`, `istream_iterator`, & `ostream_iterator`



STL Adapters

- There are three main types of adapters in STL
 - Iterator adapters
 - Container adapters
 - e.g., `stack`, `queue`, & `priority_queue`

Category	Containers	Characteristics
Adapter	<code>stack</code>	First in, last out data structure.
	<code>queue</code>	First in, first out data structure.
	<code>priority_queue</code>	Queue that maintains items in a sorted order based on a priority value.

These adapters narrow existing interfaces, e.g., a `stack` adapter for `deque`

STL Adapters

- There are three main types of adapters in STL
 - Iterator adapters
 - Container adapters
 - Function adapter
 - e.g., negators, binders, etc.

