

## Suggested Template for Class Specification

Class	Each Attribute	Each Operation	Each Association
Name	Name	Name()	Name
Description (from glossary)	Description (from glossary)	Description (from glossary)	Description (from glossary)
Type	Type [multiplicity], containment {by value, by reference}	Parameter list (arg1:type1[=default1], arg2:...)	Association attributes/class (link element)
<b>Purpose/intent/usage</b>			Target class
Package Export control (visibility) {public, protected, private, implementation}	Default (initial) value «stereotype»	Return type «stereotype»	Navigability {client, supplier, peer} (name direction)
«stereotype»	\$static/dynamic	Purpose/intent/usage (semantics)	Multiplicity
Abstract {Yes, No}	/derived {Yes, No}	<b>\$static/dynamic</b>	Role
Inherits from	<b>Const-ness</b>	Abstract {Yes, No}	«stereotype»
<b>Final {Yes, No}</b>	Visibility [= private] {public, protected, private, implementation}	<b>Final {Yes, No}</b>	\$static/dynamic
Cardinality (multiplicity)		Visibility {public, protected, private, implementation}	Visibility {public, protected, private, implementation}
Space	<b>Constraints e.g. {unique}, {key}, {read only}, {no get/set} etc.</b>	Preconditions	/derived {Yes, No}
Persistent/transient	<b>Mandatory (null allowed) {Yes, No}</b>	<b>Method description</b>	Constraints e.g. {ordered}, {parameter}, {by reference} etc.
Concurrency [= sequential] {sequential, guarded, active, synchronous}	<b>Range/enumeration</b>	Postconditions	
	<b>Format</b>	Error/exception handling	
Formal parameters {only for parameterised/ instantiated classes and parameterised/instantiated class utilities	<b>Precision</b>	Performance (size, time)	
		Concurrency {guarded, synchronous, sequential}	
		<b>Side-effects</b>	
Associations/dependencies (collaborations)			
Attributes			
Operations			
<b>Interface</b>			
State diagram			
<b>Complexity</b>			
<b>Resource expended (effort, cost) – estimated vs. actual</b>			
<b>Version history</b>			
<b>Configuration management</b>			
<b>Owner/queries to:</b>			
Source (path/URL)			
<b>Key words for search</b>			
<b>Test harness</b>			
<b>Known bugs</b>			
<b>Use case x-reference</b>			
<b>Supporting documentation (source)</b>			
<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>

NB: Entries in *red* are not supported by the Rational Rose™ Class Specification dialogue.

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