

The Unified Modeling Language Reference Manual Object Technology Series

Rational unified process RUP is a specific implementation of the Unified Process. content from Jim Rumbaugh's Object Modeling Technology (OMT) approach to modeling, Grady Booch's Booch method, and the newly released UML 0. To help make The Rational Unified Process (RUP) is an iterative software development process framework created by the Rational Software Corporation, a division of IBM since 2003. 8. RUP is not a single concrete prescriptive process, but rather an adaptable process framework, intended to be tailored by the development organizations and software project teams that will select the elements of the process that are appropriate for their needs

Lisp (programming language) ANSI Common Lisp was the first standardized object-oriented programming language (1994, ANSI X3J13). CommonLOOPS. ObjectLisp or Object Lisp, used by Lisp Machines Lisp (historically LISP, an abbreviation of "list processing") is a family of programming languages with a long history and a distinctive, fully parenthesized prefix notation

High-Level Shader Language It was developed alongside the Cg (short for C for Graphics) shading language from Nvidia. Early versions of the two languages were considered identical, only marketed differently. Direct3D 9 API to augment the shader assembly language, and went on to become the required shading language for the unified shader model of Direct3D 10 and higher The High-Level Shader Language or High-Level Shading Language (HLSL) is a proprietary shading language developed by Microsoft for the Direct3D 9 API to augment the shader assembly language, and went on to become the required shading language for the unified shader model of Direct3D 10 and higher

Z notation It is targeted at the clear specification of computer programs and computer-based systems in general. Constraint Language (OCL) Fastest, a model-based testing tool for the Z notation Unified Modeling Language, a software system design modeling tool by Object Management The Z notation is a formal specification language used for describing and modelling computing systems

List of programming languages by type As a language can have multiple attributes, the same language can appear in multiple groupings. Clojure F# GOAL SARL Array programming (also termed vector or multidimensional) languages generalize The notable programming languages listed here are grouped by their notable language attribute. abstractions of objects that can message other agents

Rational Software originally developed the RUP as a software process product. The product includes a hyperlinked knowledge-base with sample artifacts and detailed descriptions for many different types of activities. RUP is included in the Rational Method Composer (RMC) product which allows customization of the process. After his master's degree, Jacobson joined Ericsson and worked in R&D on computerized switching systems AKE and AXE including PLEX. In April 1987, he started Objective Systems. A majority stake of the company was acquired by Ericsson in 1991, and the company was renamed Objectory AB. Jacobson developed the software method Object-Oriented Software Engineering (OOSE) published 1992, which was a simplified version of the commercial software process Objectory (short for Object Factory). Objective-C source code "messaging/implementation" program files usually have .m filename extensions, while Objective-C "header/interface" files have .h extensions, the same as C header files. Objective-C++ files are denoted with a .mm filename extension. In October 1995, Ericsson... Philippe Kruchten, an experienced Rational technical representative was tasked with heading up the original RUP team.

Shlaer-Mellor method The method makes the documented analysis so precise that it is possible to implement the analysis model directly by translation to the target architecture, rather than by elaborating model changes through a series of more platform-specific models. In the new millennium the Shlaer-Mellor method has migrated to the UML notation, becoming Executable UML. we would say the Shlaer-Mellor method uses a form of model-driven architecture (MDA) normally associated with the Unified Modeling Language (UML). By taking The Shlaer-Mellor method, also known as object-oriented systems analysis (OOSA) or object-oriented analysis (OOA) is an object-oriented software development methodology introduced by Sally Shlaer and Stephen Mellor in 1988

Originally specified in the late 1950s, it is the second-oldest high-level programming language still in common use, after Fortran. Lisp has changed since its early days, and many dialects have existed over its history. Today, the best-known general-purpose Lisp dialects are Common Lisp, Scheme, Racket, and Clojure. Scala source code can be compiled to JVM bytecode and run on a Java virtual machine (JVM). Scala can also be transpiled to JavaScript to run in a browser, or compiled directly to a native executable using Clang. When running on the JVM, Scala provides language interoperability with Java so that libraries written in either language may be referenced directly in Scala or Java code. Like Java, Scala is object-oriented, and uses a syntax termed curly-brace which is similar to the language C. Scala 3 added an option to use the off-side rule (indenting) to structure blocks, and its use is advised. Martin Odersky has said that this turned out to be the most productive change introduced in Scala 3. HLSL shaders can enable many special effects in both 2D and 3D computer graphics. Lisp was originally created as a practical mathematical notation for computer programs, influenced by (though not originally derived from) the notation of Alonzo Church's lambda calculus. It quickly became a favored programming language for artificial intelligence (AI) research. As one of the earliest programming languages, Lisp pioneered many ideas in computer science, including tree data structures, automatic storage management, dynamic typing, conditionals, higher-order functions, recursion, the self-hosting compiler, and the read-eval-print loop.

Scala (programming language) strongly statically typed high-level general-purpose programming language that supports both

object-oriented programming and functional programming. Designed to be concise, many of Scala's design decisions are intended to address criticism of Java. Designed Scala (SKAH-lah) is a strongly statically typed high-level general-purpose programming language that supports both object-oriented programming and functional programming 815ac8a269

Ivar Jacobson With Grady Booch & James Rumbaugh. The Unified Modeling Language Reference Manual. The Unified Ivar Hjalmar Jacobson (Swedish pronunciation: [ˈiːvar ˈjɑːkɔbˌsɔn] ; born September 2, 1939) is a Swedish computer scientist and software engineer, known as a major contributor to UML, Objectory, Rational Unified Process (RUP), aspect-oriented software development, and Essence. Addison-Wesley Professional, 2004, ISBN 0-321-24562-8 1998 815ac8a269

== History == 815ac8a269 == Overview == 815ac8a269 Objective-C was created mainly by Brad Cox and Tom Love in the early 1980s at their... 815ac8a269 == Differences between systems and software engineering use cases == 815ac8a269 These initial versions combined the Rational Software organisation's extensive field experience building object-oriented systems (referred to by Rational field staff as the Rational Approach) with Objectory's guidance on practices such as use cases, and incorporated... 815ac8a269 Two main branches of the Cg/HLSL language exist: the Nvidia Cg compiler (cgc) which outputs DirectX or OpenGL and the Microsoft HLSL which outputs DirectX shaders in bytecode format. Nvidia's cgc was deprecated in 2012, with no additional development or support available. 815ac8a269 In software (and software-based systems) engineering, it is used to define and validate functional requirements. A use case is a list of actions or event steps typically defining the interactions between a role (known in the Unified Modeling Language (UML) as an actor) and a system to achieve a goal. The actor can be a human or another external system. In systems engineering, use cases are used at a higher level than within software engineering, often representing missions or stakeholder goals. The detailed requirements may then be captured in the Systems Modeling Language (SysML) or as contractual statements. 815ac8a269 == History == 815ac8a269 == Agent-oriented programming languages == 815ac8a269 Ivar Jacobson was born in Ystad, on September 2, 1939. He received his Master of Electrical Engineering degree at Chalmers Institute of Technology in Gothenburg in 1962. After his work at Ericsson, he formalized the language and method he had been working on in his PhD at the Royal Institute of Technology in Stockholm in 1985 on the thesis "Language Constructs for Large Real Time Systems". 815ac8a269

Objective-C Originally developed Objective-C is a high-level general-purpose, object-oriented programming language that adds Smalltalk-style message passing (messaging) to the C programming language. Due to Apple macOS's direct lineage from NeXTSTEP, Objective-C was the standard language used, supported, and promoted by Apple for developing macOS and iOS applications (via their respective application programming interfaces (APIs), Cocoa and Cocoa Touch) from 1997, when Apple purchased NeXT, until the introduction of the Swift language in 2014. general-purpose, object-oriented programming language that adds Smalltalk-style message passing (messaging) to the C programming language. Originally developed by Brad Cox and Tom Love in the early 1980s, it was selected by NeXT for its NeXTSTEP operating system 815ac8a269

== History == 815ac8a269 Although Cg and HLSL share the same core syntax, some features of C were modified and new data types were added to make Cg/HLSL more suitable for programming graphics processing units. 815ac8a269 == Biography == 815ac8a269 The name LISP derives from "List Processor". Linked lists are one of Lisp's major data structures, and Lisp source code is made of lists. Thus, Lisp programs... 815ac8a269 Objective-C programs developed for non-Apple operating systems or that are not dependent on Apple's APIs may also be compiled for any platform supported by GNU, GNU Compiler Collection (GCC) or LLVM/Clang. 815ac8a269 In software engineering, the use case defines potential scenarios of the software in response to an external request (such as user input). In systems engineering, a use case models high-level functional behavior across technical... 815ac8a269 The Cg/HLSL language originally only included support for vertex shaders and pixel shaders ("fragment" in GLSL). A vertex shader is executed for each vertex that is submitted by the... 815ac8a269

Use case together they created the Unified Modelling Language (UML), which includes use case modeling. The term is also used outside software/systems engineering to describe how something can be used. UML was standardized by the Object Management Group (OMG) In both software and systems engineering, a use case is a structured description of a system's behavior as it responds to requests from external actors, aiming to achieve a specific goal 815ac8a269

Unlike Java, Scala has many features of functional programming languages (like Scheme, Standard ML, and Haskell), including currying, immutability, lazy evaluation, and pattern matching. It also has an advanced type system supporting... 815ac8a269

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