



Elemental Design Patterns

By Jason McC. Smith

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After fifteen years, the field of design patterns is still missing a critical element: a foundation. By definition, the content of design patterns is abstract. As a result, design patterns are difficult for many to grasp well - especially for inexperienced programmers and students. While many professionals who could benefit from patterns admit that they don't fully understand them, many others don't understand patterns nearly as well as they imagine they do - resulting in systems that aren't designed as well as they should be. In **Elemental Design Patterns**, researcher Jason McC. Smith offers the missing foundation that software practitioners need to utilize patterns far more effectively. Smith introduces a foundational layer of patterns terminology: a collection of core patterns that can't be decomposed further. He presents these underlying basic concepts of programming clearly and concisely, in the same format as the classic "Gang of Four" patterns - thereby offering a taxonomy that virtually any developer can understand and apply. **Elemental Design Patterns** helps practitioners grasp the context of patterns, comprehend their true power, and map them to actual software implementations more cleanly and directly. Part tutorial, part example-rich cookbook, it will help developers gain a deeper appreciation for what they do - and successfully utilize patterns with a wide variety of languages, environments, and domains

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Editorial Review

About the Author

Jason McC. Smith received his Ph.D. in computer science in 2005 from the University of North Carolina at Chapel Hill, where the Elemental Design Patterns were born as part of the System for Pattern Query and Recognition (SPQR) project. He then spent four years at IBM Watson Research and had the opportunity to apply the lessons of SPQR and the EDP catalog and compositional approach to immense bodies of software, both legacy and modern. Dr. Smith is currently senior research scientist at The Software Revolution, Inc., in Kirkland, WA, where he continues to refine the EDP catalog and look for ways to enhance the company's goal of automated modernization and transformation of legacy systems.

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