Finding Source Code On The Web For Remix And Reuse
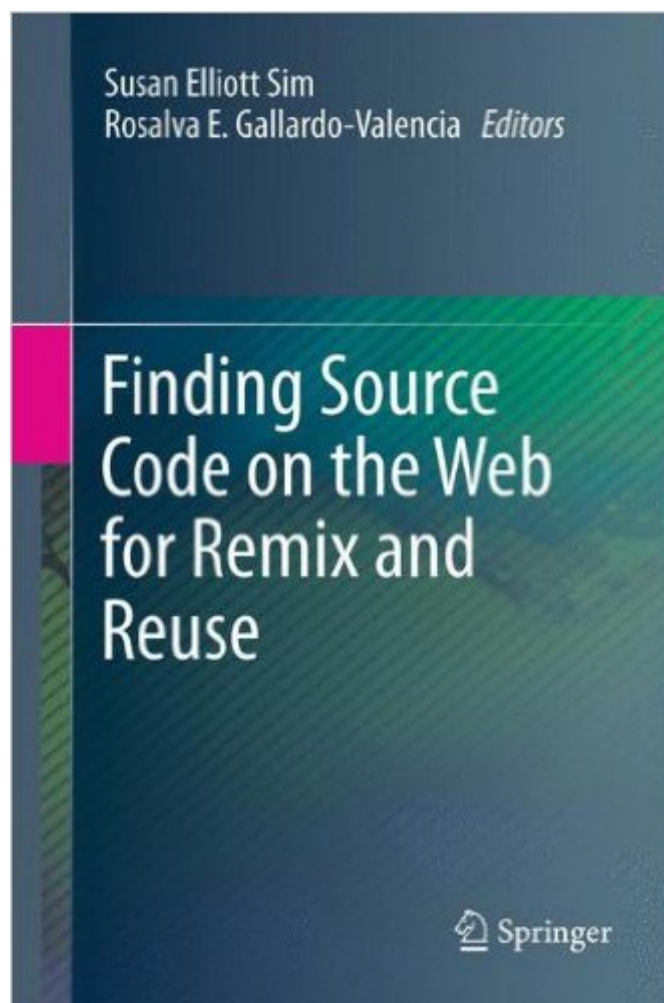
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Finding Source Code on the Web for Remix and Reuse

Springer

Synopsis

In recent years, searching for source code on the web has become increasingly common among professional software developers and is emerging as an area of academic research. This volume surveys past research and presents the state of the art in the area of "code retrieval on the web." This work is concerned with the algorithms, systems, and tools to allow programmers to search for source code on the web and the empirical studies of these inventions and practices. It is a label that we apply to a set of related research from software engineering, information retrieval, human-computer interaction, management, as well as commercial products. The division of code retrieval on the web into snippet remixing and component reuse is driven both by empirical data, and analysis of existing search engines and tools. Contributors include leading researchers from human-computer interaction, software engineering, programming languages, and management. "Finding Source Code on the Web for Remix and Reuse" consists of five parts. Part I is titled "Programmers and Practices," and consists of a retrospective chapter and two empirical studies on how programmers search the web for source code. Part II is titled "From Data Structures to Infrastructures," and covers the creation of ground-breaking search engines for code retrieval required ingenuity in the adaptation of existing technology and in the creation of new algorithms and data structures. Part III focuses on "Reuse: Components and Projects," which are reused with minimal modification. Part IV is on "Remix: Snippets and Answers," which examines how source code from the web can also be used as solutions to problems and answers to questions. The book concludes with Part V, "Looking Ahead," that looks at future programming and the legalities of software reuse and remix and the implications of current intellectual property law on the future of software development. The story, "Richie Boss: Private Investigator Manager," was selected as the winner of a crowdfunded short story contest."

Book Information

Best Sellers Rank: #7,493,467 in Books (See Top 100 in Books)   #62 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Software Reuse   #2161 in Books > Computers & Technology > Graphics & Design > User Experience & Usability   #2693 in Books > Computers & Technology > Networking & Cloud Computing > Network Administration > Storage & Retrieval

Finding Source Code on the Web for Remix and Reuse Reusing Open Source Code: Value Creation and Value Appropriation Perspectives on Knowledge Reuse (Innovation und Entrepreneurship) Virtual Memory Source Code Secrets (Code Secrets V2) Software Reuse for Dynamic Systems in the Cloud and Beyond: 14th International Conference on Software Reuse, ICSR 2015, Miami, FL, USA, January 4-6, ... (Lecture Notes in Computer Science) Safe and Secure Software Reuse: 13th International Conference on Software Reuse, ICSR 2013, Pisa, Italy, June 18-20, 2013, Proceedings (Lecture Notes in Computer Science) Software Reuse Techniques: Adding Reuse to the System Development Process Reuse of Off-the-Shelf Components: 9th International Conference on Software Reuse, ICSR 2006, Torino, Italy, June 12-15, 2006, Proceedings (Lecture Notes in Computer Science) IntAR, Interventions Adaptive Reuse, Volume 03; Adaptive Reuse in Emerging Economies 2012 International Plumbing Code (Includes International Private Sewage Disposal Code) (International Code Council Series) Ruby: Programming, Master's Handbook: A TRUE Beginner's Guide! Problem Solving, Code, Data Science, Data Structures & Algorithms (Code like a PRO in ... web design, tech, perl, ajax, swift, python,) Java Programming: Master's Handbook: A TRUE Beginner's Guide! Problem Solving, Code, Data Science, Data Structures & Algorithms (Code like a PRO in ... web design, tech, perl, ajax, swift, python) Message Remix Bible: Psalms & Proverbs The Gospel Remix: Reaching the Hip Hop Generation The Best of Guerrilla Marketing: Guerrilla Marketing Remix The Message Remix Bible: Complete Bible Juan Ponce de Leon: A Primary Source Biography (Primary Source Library of Famous Explorers) From the Source - Thailand: Thailand's Most Authentic Recipes From the People That Know Them Best (Lonely Planet from the Source) Strunk's Source Readings in Music History: The Nineteenth Century (Revised Edition) (Vol. 6) (Source Readings Vol. 6) Great Source Write Source Texas: SkillsBook Student Edition Grade 3 RESTful Web Clients: Enabling Reuse Through Hypermedia