Design Science

Design prototyping methods: state of the art in strategies, techniques, and guidelines

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Abstract

Prototyping is interwoven with nearly all product, service, and systems development efforts. A prototype is a pre-production representation of some aspect of a concept or final design. Prototyping often predetermines a large portion of resource deployment in development and influences design project success. This review surveys literature sources in engineering, management, design science, and architecture. The study is focused around design prototyping for early stage design. Insights are synthesized from critical review of the literature: key objectives of prototyping, critical review of major techniques, relationships between techniques, and a strategy matrix to connect objectives to techniques. The review is supported with exemplar prototypes provided from industrial design efforts. Techniques are roughly categorized into those that improve the outcomes of prototyping directly, and those that enable prototyping through lowering of cost and time. Compact descriptions of each technique provide a foundation to compare the potential benefits and drawbacks of each. The review concludes with a summary of key observations, highlighted opportunities in the research, and a vision of the future of prototyping. This review aims to provide a resource for designers as well as set a trajectory for continuing innovation in the scientific research of design prototyping.

Key words: design prototyping, product, service, systems, methods

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Setting the stage

A prototype is an artifact that approximates a feature (or multiple features) of a product, service, or system (Otto & Wood 2001). Design and prototyping have been interwoven throughout history. Michelangelo used physical prototypes to communicate construction details, and for marketing to investors (Sass & Oxman 2006). Palladio used full-scale wooden prototypes of architectural elements to plan costly stone works (Sass & Oxman 2006). Henry Ford explored at least nineteen models (some of which were prototypes) before finalizing the revolutionary model T design (Womack, Jones & Roos 2008). The triumph of Dyson's cyclonic vacuum was only achieved after 5,127 prototypes (Dyson & Coren 2001).

There are overall trends in how individual industries approach prototyping (Schrage 1993). Some are driven by achieving specifications (typically those

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Bruce I. Blum

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Prototyping M. Lipp, 1986 Advances in RAMS Engineering Durga Rao Karanki, Gopika Vinod, Srividya Ajit, 2019-12-10 This book surveys reliability availability maintainability and safety RAMS analyses of various engineering systems It highlights their role throughout the lifecycle of engineering systems and explains how RAMS activities contribute to their efficient and economic design and operation The book discusses a variety of examples and applications of RAMS analysis including software products electrical and electronic engineering systems mechanical engineering systems nuclear power plants chemical and process plants and railway systems. The wide ranging nature of the applications discussed highlights the multidisciplinary nature of complex engineering systems. The book provides a guick reference to the latest advances and terminology in various engineering fields assisting students and researchers in the areas of reliability availability maintainability and safety engineering 15th International Conference on Software Engineering, May 17-21, 1993, Baltimore, Marlyland ,1993 Human-Computer Interaction - INTERACT '87 H.-J. Bullinger, B. Shackel, 2014-05-21 Since the first INTERACT Conference in September 1984 the field of Human Computer Interaction has received increasing attention from researchers and industrial practitioners the importance of the topic now being widely recognized Technological developments have made it possible to seek new solutions to the problem of supporting work processes by information technology and for designing the interface between user and the machine Computers have become an everyday and common tool in the work of many people This has motivated the development of an interdisciplinary field of research which now appears much more established than it was a few years ago The INTERACT forums provide the opportunity for regular presentation and discussion of new results from research and application by bringing together the various disciplines and research approaches on a worldwide basis **Software Quality Management II: Building quality into software M. TEDIUM and the Software Process** Bruce I. Blum, 1990 In this book he describes and evaluates a Ross,1994 comprehensive environment called TEDIUM for the development and maintenance of information systems Design. User Experience, and Usability: Theories, Methods, and Tools for Designing the User Experience Aaron Marcus, 2014-05-16 The four volume set LNCS 8517 8518 8519 and 8520 constitutes the proceedings of the Third International Conference on Design User Experience and Usability DUXU 2014 held as part of the 16th International Conference on Human Computer Interaction HCII 2014 held in Heraklion Crete Greece in June 2014 jointly with 13 other thematically similar conferences The total of 1476 papers and 220 posters presented at the HCII 2014 conferences were carefully reviewed and selected from 4766 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The total of 256 contributions included in the DUXU proceedings were carefully

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Human-Computer Interaction - INTERACT '87 Hans-Jörg Bullinger,B. Shackel,Klaus Kornwachs,1987-11 Since the first INTERACT Conference in September 1984 the field of Human Computer Interaction has received increasing attention from researchers and industrial practitioners the importance of the topic now being widely recognized Technological developments have made it possible to seek new solutions to the problem of supporting work processes by information technology and for designing the interface between user and the machine Computers have become an everyday and common tool in the work of many people This has motivated the development of an interdisciplinary field of research which now appears much more established than it was a few years ago The INTERACT forums provide the opportunity for regular presentation and discussion of new results from research and application by bringing together the various disciplines and research approaches on a worldwide basis

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