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Sommario/riassunto	Experts in the fields of mammalian, reptilian, avian and amphibian brain development and in evolutionary biology come together to discuss approaches towards the possible origin of the cerebral cortex, with particular emphasis on theories of the mammalian cerebral cortex. It includes: critical examinations of methods used to study homology in the central nervous system, methods used in cladistic analysis, and up-to-date data is given on the earliest generated transient cells of the forebrain and on cortical organisation.

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Nota di contenuto	FrontCover; Refactoring forSoftware DesignSmells; Copyright; Dedication; Contents; Foreword by Grady Booch; Foreword by Dr. Stephane Ducasse; Preface; WHAT IS THIS BOOK ABOUT?; WHAT DOES THIS BOOK COVER?; WHO SHOULD READ THIS BOOK?; WHAT ARE THE PREREQUISITES FOR READING THIS BOOK?; HOW TO READ THIS BOOK?; WHERE CAN I FIND MORE INFORMATION?; WHY DID WE WRITE THIS BOOK?; Acknowledgments; Chapter 1 - Technical Debt; 1.1 WHAT IS TECHNICAL DEBT?; 1.2 WHAT CONSTITUTES TECHNICAL DEBT?; 1.3 WHAT IS THE IMPACT OF TECHNICAL DEBT?; 1.4 WHAT CAUSES TECHNICAL DEBT?; 1.5 HOW TO MANAGE TECHNICAL DEBT? Chapter 2 - Design Smells2.1 WHY CARE ABOUT SMELLS?; 2.2 WHAT CAUSES SMELLS?; 2.3 HOW TO ADDRESS SMELLS?; 2.4 WHAT SMELLS ARE COVERED IN THIS BOOK?; 2.5 A CLASSIFICATION OF DESIGN SMELLS; Chapter 3 - Abstraction Smells; 3.1 MISSING ABSTRACTION; 3.2 IMPERATIVE ABSTRACTION; 3.3 INCOMPLETE ABSTRACTION; 3.4 MULTIFACETED ABSTRACTION; 3.5 UNNECESSARY ABSTRACTION; 3.6 UNUTILIZED ABSTRACTION; 3.7 DUPLICATE ABSTRACTION; Chapter 4 - Encapsulation Smells; 4.1 DEFICIENT ENCAPSULATION; 4.2 LEAKY ENCAPSULATION; 4.3 MISSING ENCAPSULATION; 4.4 UNEXPLOITED ENCAPSULATION; Chapter 5 - Modularization Smells 5.1 BROKEN MODULARIZATION5.2 INSUFFICIENT MODULARIZATION; 5.3 CYCLICALLY-DEPENDENT MODULARIZATION; 5.4 HUB-LIKE

MODULARIZATION; Chapter 6 - Hierarchy Smells; 6.1 MISSING HIERARCHY; 6.2 UNNECESSARY HIERARCHY; 6.3 UNFACTORED HIERARCHY; 6.4 WIDE HIERARCHY; 6.5 SPECULATIVE HIERARCHY; 6.6 DEEP HIERARCHY; 6.7 REBELLIOUS HIERARCHY; 6.8 BROKEN HIERARCHY; 6.9 MULTIPATH HIERARCHY; 6.10 CYCLIC HIERARCHY; Chapter 7 - The Smell Ecosystem; 7.1 THE ROLE OF CONTEXT; 7.2 INTERPLAY OF SMELLS; Chapter 8 - Repaying Technical Debt in Practice; 8.1 THE TOOLS; 8.2 THE PROCESS; 8.3 THE PEOPLE
Appendix A - Software Design PrinciplesA.1 ABSTRACTION; A.2 ACYCLIC DEPENDENCIES PRINCIPLE; A.3 DON'T REPEAT YOURSELF PRINCIPLE; A.4 ENCAPSULATION; A.5 INFORMATION HIDING PRINCIPLE; A.6 KEEP IT SIMPLE SILLY; A.7 LISKOV'S SUBSTITUTION PRINCIPLE; A.8 HIERARCHY; A.9 MODULARIZATION; A.10 OPEN/CLOSE PRINCIPLE; A.11 SINGLE RESPONSIBILITY PRINCIPLE; A.12 VARIATION ENCAPSULATION PRINCIPLE; Appendix B - Tools for Repaying Technical Debt; Appendix C - Notations for Figures; Appendix D - Suggested Reading; D.1 ESSENTIALS; D.2 REFACTORING AND REENGINEERING; D.3 PATTERNS AND ANTI-PATTERNS
D.4 TECHNICAL DEBTBibliography; Index

Sommario/riassunto

Awareness of design smells - indicators of common design problems - helps developers or software engineers understand mistakes made while designing, what design principles were overlooked or misapplied, and what principles need to be applied properly to address those smells through refactoring. Developers and software engineers may "know" principles and patterns, but are not aware of the "smells" that exist in their design because of wrong or mis-application of principles or patterns. These smells tend to contribute heavily to technical debt - further time owed to fix projects thought to b
