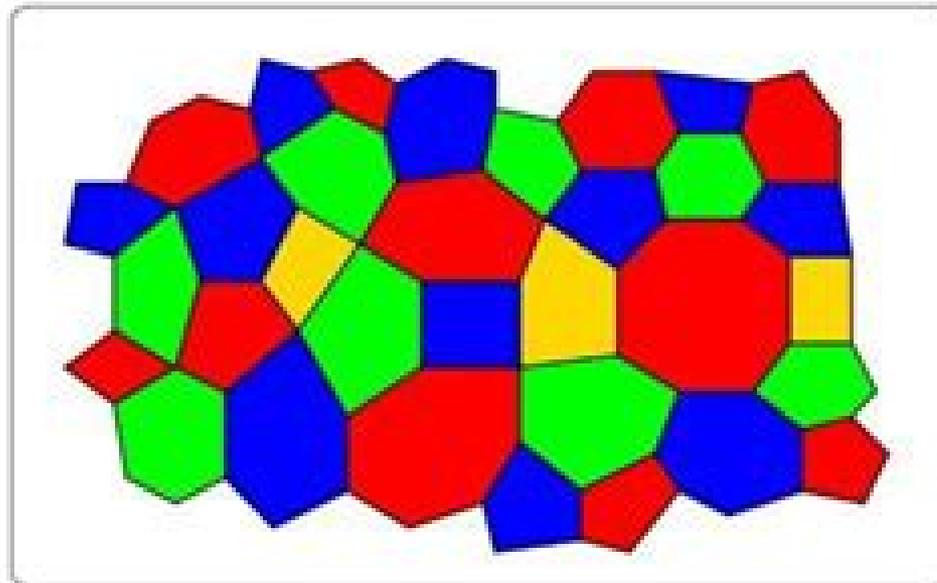


# The Four Color Problem

- The four color problem states that any map in a plane can be colored using four-colors in such a way that regions sharing a common boundary (other than a single point) do not share the same color.



**4-Colored Map**

# Four Color Problem

**Ying-Ying Zheng**



## Four Color Problem:

*The Four-Color Theorem* Rudolf Fritsch, Gerda Fritsch, 2012-12-06 During the university reform of the 1970s the classical Faculty of Science of the venerable Ludwig Maximilians Universität in Munich was divided into five smaller faculties One was for mathematics the others for physics chemistry and pharmaceuticals biology and the earth sciences Nevertheless in order to maintain an exchange of ideas between the various disciplines and so as not to permit the complete undermining of the original notion of universitas I the Carl Friedrich von Siemens Foundation periodically invites the professors from the former Faculty of Science to a luncheon gathering These are working luncheons during which recent developments in the various disciplines are presented by means of short talks The motivation for such talks does not come in the majority of cases from the respective subject itself but from another discipline that is loosely affiliated with it In this way the controversy over the modern methods used in the proof of the Four Color Theorem had also spread to disciplines outside of mathematics I as a trained algebraic topologist was asked to comment on this Naturally I was acquainted with the Four Color 1 A Latin word meaning the whole of something a collective entirety VII viii Preface Problem but up to that point had never intensively studied it As an outsider 2 I dove into the material not so much to achieve any scientific progress with it but to make this already achieved objective more understandable

**Map Coloring, Polyhedra and the Four-Color Problem** David W. Barnette, 1984-03-01

**The Four-Color Problem**, 2011-08-29 The Four Color Problem [The Four-Color Theorem](#) Rudolf Fritsch, Gerda Fritsch, 1998 This elegant little book discusses a famous problem that helped to define the field now known as graph theory what is the minimum number of colors required to print a map such that no two adjoining countries have the same color no matter how convoluted their boundaries are Many famous mathematicians have worked on the problem but the proof eluded formulation until the 1970s when it was finally cracked with a brute force approach using a computer The Four Color Theorem begins by discussing the history of the problem up to the new approach given in the 1990s by Neil Robertson Daniel Sanders Paul Seymour and Robin Thomas The book then goes into the mathematics with a detailed discussion of how to convert the originally topological problem into a combinatorial one that is both elementary enough that anyone with a basic knowledge of geometry can follow it and also rigorous enough that a mathematician can read it with satisfaction The authors discuss the mathematics and point to the philosophical debate that ensued when the proof was announced just what is a mathematical proof if it takes a computer to provide one and is such a thing a proof at all

**The Four-color Problem** Thomas L. Saaty, Paul C. Kainen, 1986 [Four Colors Suffice](#) Robin Wilson, 2014 First published London Allen Lane 2002 under title *Four colours suffice*

**Graphs, Colourings and the Four-colour Theorem** Robert Wilson, 2002 This textbook for mathematics undergraduates graduates and researchers discusses the proof of the four colour theorem one of the most famous of the long standing mathematical problems solved in the 20th century

**Every Planar Map is Four Colorable** Kenneth I. Appel, Wolfgang Haken, 1989 In this volume the authors present their 1972 proof of the

celebrated Four Color Theorem in a detailed but self contained exposition accessible to a general mathematical audience An emended version of the authors proof of the theorem the book contains the full text of the supplements and checklists which originally appeared on microfiche The thirty page introduction intended for nonspecialists provides some historical background of the theorem and details of the authors proof In addition the authors have added an appendix which treats in much greater detail the argument for situations in which reducible configurations are immersed rather than embedded in triangulations This result leads to a proof that four coloring can be accomplished in polynomial time

*The Four Color Problem; a Lecture Given at the Galois Institute of Mathematics at Long Island University* Philip Franklin,1936

[The Four Color Theorem](#) Adrian Moncloa,1990

**The Four Color Theorem** Joseph Miller Thomas,1969

**Four Colors Suffice** Robin J. Wilson,2005

**The Four-Color Theorem and Basic Graph Theory** Chris McMullen,2020-05-26 Explore a variety of fascinating concepts relating to the four color theorem with an accessible introduction to related concepts from basic graph theory From a clear explanation of Heawood s disproof of Kempe s argument to novel features like quadrilateral switching this book by Chris McMullen Ph D is packed with content It even includes a novel handwaving argument explaining why the four color theorem is true What is the four color theorem Why is it common to work with graphs instead of maps What are Kempe chains What is the problem with Alfred Kempe s attempted proof How does Euler s formula relate the numbers of faces edges and vertices What are Kuratowski s theorem and Wagner s theorem What is the motivation behind triangulation What is quadrilateral switching What is vertex splitting What is the three edges theorem Is there an algorithm for four coloring a map or graph What is a Hamiltonian cycle What is a separating triangle How is the four color theorem like an ill conditioned logic puzzle Why is the four color theorem true What makes the four color theorem so difficult to prove by hand

**Four Colours Suffice** Robin J. Wilson,2002 A puzzlers delight for over a century the four colour problem was one of the most famous conundrums in mathematics if not the most famous and many thousands of puzzlers amateur problem solvers and professional mathematicians alike have struggled to answer it The problem is simply stated and involves the colouring of maps Can every map be coloured with no more than four colours so that neighbouring countries are coloured differently

**Proceedings of the West Virginia Academy of Science** West Virginia Academy of Science,1926 List of members in v 2

*American Journal of Mathematics* ,1924 The American Journal of Mathematics publishes research papers and articles of broad appeal covering the major areas of contemporary mathematics

**Annals of Mathematics** ,1927 Founded in 1884 Annals of Mathematics publishes research papers in pure mathematics

*Mathematical Wrinkles for Teachers and Private Learners Consisting of Knotty Problems* Samuel Isaac Jones,1923

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## **Table of Contents Four Color Problem**

1. Understanding the eBook Four Color Problem

- The Rise of Digital Reading Four Color Problem
- Advantages of eBooks Over Traditional Books
- 2. Identifying Four Color Problem
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Four Color Problem
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Four Color Problem
  - Personalized Recommendations
  - Four Color Problem User Reviews and Ratings
  - Four Color Problem and Bestseller Lists
- 5. Accessing Four Color Problem Free and Paid eBooks
  - Four Color Problem Public Domain eBooks
  - Four Color Problem eBook Subscription Services
  - Four Color Problem Budget-Friendly Options
- 6. Navigating Four Color Problem eBook Formats
  - ePub, PDF, MOBI, and More
  - Four Color Problem Compatibility with Devices
  - Four Color Problem Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Four Color Problem
  - Highlighting and Note-Taking Four Color Problem
  - Interactive Elements Four Color Problem
- 8. Staying Engaged with Four Color Problem
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Four Color Problem

9. Balancing eBooks and Physical Books Four Color Problem
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Four Color Problem
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Four Color Problem
  - Setting Reading Goals Four Color Problem
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Four Color Problem
  - Fact-Checking eBook Content of Four Color Problem
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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