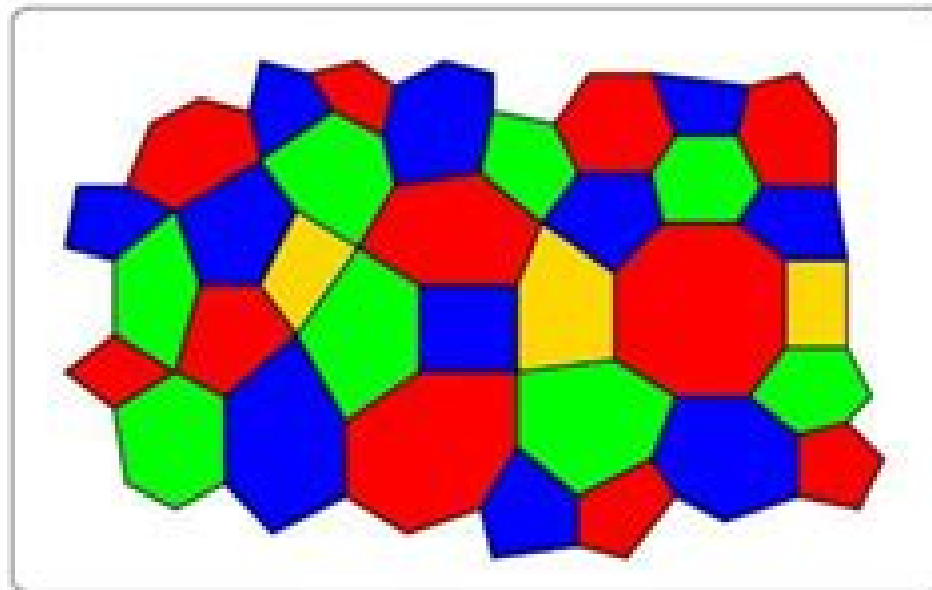


The Four Color Problem

- 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

The Four Color Problem

Rudolf Fritsch, Gerda Fritsch



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The Four-Color Problem ,2011-08-29 **The 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

The Four-color Problem Thomas L. Saaty, Paul C. Kainen, 1977 **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

Map Coloring, Polyhedra and the FourColor Problem David W. Barnette, 1984-03-01 **Four Colors Suffice** Robin Wilson, 2014 First published London Allen Lane 2002 under title Four colours suffice **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 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

The Four Color Problem; a Lecture Given at the Galois Institute of Mathematics at Long Island University Philip Franklin, 1936 **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 Colour Theorem Ashay Dharwadkar, 2000-08-05 We present a new proof of the famous four colour theorem using algebraic and topological methods This proof was first announced by the Canadian Mathematical Society in 2000 and subsequently published by Orient Longman and Universities Press of India in 2008 Recent research in physics shows that this proof directly implies the Grand Unification of the Standard Model with Quantum Gravity in its physical interpretation and conversely the existence of the standard model of particle physics shows that nature applies this proof of the four colour theorem at the most fundamental level

Map Coloring, Polyhedra, and the Four-color Problem David Barnette, 1983 **The Four Color Problem. A Simple Proof** Giuseppe Trigiante, 2018 The four color conjecture states that any map on a plane can be colored by using no more than four colors under the constraint that two regions having a border in common cannot have the same color The conjecture was established in 1852 by Francis Gutrie

Although many attempts were made in over one century a proof was given only in 1977 Such proof is too long and uses the aid of a computer to analyze all the possible cases In this paper we provide a short proof by considering the worst case

Four Colors Suffice Robin J. Wilson, 2005 **The Four Color Theorem** Joseph Miller Thomas, 1969 The Four Color Theorem Adrian Moncloa, 1990 **The Four Color Theorem** Joseph Miller Thomas, 1972 This paper proves that all maps on the sphere can be colored with four colors The term map is used as by Veblen with the trivial exceptions that each map here has exactly three faces at each vertex has in all at least three faces and covers the whole sphere *Map Coloring, Polyhedra, and the Four-color Problem* David Wilmot Barnette, 1983 *Map Color Theorem* G. Ringel, 2012-12-06 In 1890 P J Heawood 35 published a formula which he called the Map Colour Theorem But he forgot to prove it Therefore the world of mathematicians called it the Heawood Conjecture In 1968 the formula was proven and therefore again called the Map Color Theorem This book is written in California thus in American English Beautiful combinatorial methods were developed in order to prove the formula The proof is divided into twelve cases In 1966 there were three of them still unsolved In the academic year 1967 68 J W T Youngs on those three cases at Santa Cruz Sur invited me to work with him prisingly our joint effort led to the solution of all three cases It was a year of hard work but great pleasure Working together was extremely profitable and enjoyable In spite of the fact that we saw each other every day Ted wrote a letter to me which I present here in shortened form Santa Cruz March 1 1968 Dear Gerhard Last night while I was checking our results on Cases 2 8 and 11 and thinking of the great pleasure we had in the afternoon with the extra ordinarily elegant new solution for Case 11 it seemed to me appropriate to pause for a few minutes and dictate a historical memorandum We began working on Case 8 on 10 October 1967 and it was settled on Tuesday night 14 November 1967

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