

ACS GENERAL CHEMISTRY 1

ACS GENERAL CHEMISTRY 1 IS A FOUNDATIONAL COURSE THAT SERVES AS A GATEWAY FOR STUDENTS PURSUING VARIOUS DISCIPLINES IN THE FIELDS OF SCIENCE, ENGINEERING, AND HEALTH. THIS COURSE IS TYPICALLY STRUCTURED TO INTRODUCE STUDENTS TO ESSENTIAL CONCEPTS IN CHEMISTRY, EMPHASIZING BOTH THEORETICAL UNDERSTANDING AND PRACTICAL APPLICATIONS. BY THE END OF THE COURSE, STUDENTS SHOULD DEVELOP CRITICAL THINKING SKILLS AND A ROBUST UNDERSTANDING OF CHEMICAL PRINCIPLES, WHICH ARE VITAL FOR ADVANCED STUDIES IN CHEMISTRY AND RELATED FIELDS.

COURSE OVERVIEW

THE ACS GENERAL CHEMISTRY 1 COURSE USUALLY COVERS A WIDE ARRAY OF TOPICS DESIGNED TO PROVIDE STUDENTS WITH A THOROUGH GROUNDING IN CHEMISTRY. THE AMERICAN CHEMICAL SOCIETY (ACS) SETS THE STANDARDS FOR THIS CURRICULUM, ENSURING THAT IT ALIGNS WITH CURRENT SCIENTIFIC PRACTICES AND EDUCATIONAL METHODOLOGIES.

KEY TOPICS COVERED

1. ATOMIC STRUCTURE

- UNDERSTANDING ATOMS AND MOLECULES
- THE PERIODIC TABLE AND TRENDS
- ELECTRON CONFIGURATIONS

2. CHEMICAL BONDING

- IONIC AND COVALENT BONDS
- MOLECULAR GEOMETRY AND VSEPR THEORY
- INTERMOLECULAR FORCES

3. STOICHIOMETRY

- BALANCING CHEMICAL EQUATIONS
- MOLARITY AND MOLALITY
- THE CONCEPT OF THE MOLE

4. THERMOCHEMISTRY

- ENERGY CHANGES IN CHEMICAL REACTIONS
- ENTHALPY, ENTROPY, AND GIBBS FREE ENERGY
- CALORIMETRY AND HEAT TRANSFER

5. CHEMICAL REACTIONS

- TYPES OF CHEMICAL REACTIONS (SYNTHESIS, DECOMPOSITION, SINGLE REPLACEMENT, DOUBLE REPLACEMENT, COMBUSTION)
- REACTION KINETICS AND EQUILIBRIUM
- LE CHATELIER'S PRINCIPLE

6. ACIDS AND BASES

- DEFINITIONS OF ACIDS AND BASES (ARRHENIUS, BRØNSTED-LOWRY, LEWIS)
- pH AND pOH CALCULATIONS
- ACID-BASE TITRATIONS

7. STATES OF MATTER

- PROPERTIES OF SOLIDS, LIQUIDS, AND GASES
- GAS LAWS (BOYLE'S, CHARLES'S, AVOGADRO'S, IDEAL GAS LAW)
- PHASE CHANGES AND PHASE DIAGRAMS

LABORATORY COMPONENT

A SIGNIFICANT ASPECT OF ACS GENERAL CHEMISTRY 1 IS THE LABORATORY COMPONENT, WHERE STUDENTS GAIN HANDS-ON EXPERIENCE IN CONDUCTING EXPERIMENTS THAT REINFORCE THEORETICAL CONCEPTS LEARNED IN LECTURES.

LABORATORY SKILLS DEVELOPED

- SAFETY PROTOCOLS: UNDERSTANDING LABORATORY SAFETY, PERSONAL PROTECTIVE EQUIPMENT (PPE), AND EMERGENCY PROCEDURES.
- TECHNIQUES: MASTERING TECHNIQUES SUCH AS TITRATION, FILTRATION, AND CHROMATOGRAPHY.
- DATA ANALYSIS: LEARNING TO RECORD, ANALYZE, AND INTERPRET EXPERIMENTAL DATA ACCURATELY.
- REPORT WRITING: DEVELOPING SKILLS IN WRITING COMPREHENSIVE LAB REPORTS, INCLUDING HYPOTHESIS FORMULATION, METHOD DESCRIPTION, RESULTS, AND DISCUSSIONS.

COMMON EXPERIMENTS IN ACS GENERAL CHEMISTRY 1

1. TITRATION OF ACIDS AND BASES

- OBJECTIVE: TO DETERMINE THE CONCENTRATION OF AN UNKNOWN ACID OR BASE.
- SKILLS: ACCURATE MEASUREMENT, USE OF INDICATORS, AND UNDERSTANDING TITRATION CURVES.

2. DETERMINATION OF EMPIRICAL FORMULA

- OBJECTIVE: TO DERIVE THE EMPIRICAL FORMULA OF A COMPOUND THROUGH COMBUSTION ANALYSIS.
- SKILLS: STOICHIOMETRIC CALCULATIONS AND DATA INTERPRETATION.

3. CALORIMETRY EXPERIMENTS

- OBJECTIVE: TO MEASURE THE HEAT OF REACTION AND UNDERSTAND ENERGY CHANGES.
- SKILLS: USE OF CALORIMETERS AND UNDERSTANDING OF THERMODYNAMIC CONCEPTS.

4. GAS LAWS INVESTIGATION

- OBJECTIVE: TO INVESTIGATE THE RELATIONSHIPS BETWEEN PRESSURE, VOLUME, AND TEMPERATURE OF GASES.
- SKILLS: DATA COLLECTION AND ANALYSIS USING THE IDEAL GAS LAW.

ASSESSMENT METHODS

ASSESSMENT IN ACS GENERAL CHEMISTRY 1 IS MULTIFACETED, DESIGNED TO EVALUATE BOTH THEORETICAL KNOWLEDGE AND PRACTICAL SKILLS.

TYPES OF ASSESSMENTS

1. EXAMS AND QUIZZES

- MID-TERM AND FINAL EXAMS THAT TEST UNDERSTANDING OF CORE CONCEPTS.
- QUIZZES THAT FOCUS ON RECENT TOPICS TO REINFORCE LEARNING.

2. LABORATORY REPORTS

- WRITTEN REPORTS THAT ASSESS STUDENTS' ABILITY TO CONDUCT EXPERIMENTS AND ANALYZE RESULTS.
- GRADING BASED ON CLARITY, ORGANIZATION, AND SCIENTIFIC ACCURACY.

3. HOMEWORK ASSIGNMENTS

- REGULAR ASSIGNMENTS THAT REINFORCE LECTURE TOPICS AND LABORATORY SKILLS.

- PROBLEMS OFTEN DRAWN FROM TEXTBOOKS OR ACS RESOURCES.

4. PARTICIPATION AND ATTENDANCE

- ACTIVE PARTICIPATION IN LECTURES AND LABS MAY CONTRIBUTE TO THE FINAL GRADE.
- IMPORTANCE OF ENGAGEMENT IN DISCUSSIONS AND GROUP WORK.

IMPORTANCE OF GENERAL CHEMISTRY

THE SIGNIFICANCE OF ACS GENERAL CHEMISTRY 1 EXTENDS BEYOND THE CLASSROOM. THIS COURSE LAYS THE GROUNDWORK FOR VARIOUS FIELDS AND CAREERS, INCLUDING:

- CHEMISTRY AND BIOCHEMISTRY: ESSENTIAL FOR STUDENTS PURSUING DEGREES IN CHEMISTRY OR BIOCHEMISTRY.
- ENGINEERING: FUNDAMENTAL PRINCIPLES OF CHEMISTRY ARE CRUCIAL FOR CHEMICAL, MATERIALS, AND ENVIRONMENTAL ENGINEERING.
- HEALTH SCIENCES: A STRONG UNDERSTANDING OF CHEMISTRY IS VITAL FOR STUDENTS ENTERING MEDICAL, DENTAL, OR PHARMACY SCHOOLS.
- ENVIRONMENTAL SCIENCE: KNOWLEDGE OF CHEMICAL PROCESSES IS NECESSARY FOR THOSE STUDYING ENVIRONMENTAL ISSUES AND SUSTAINABILITY.

SKILLS DEVELOPED

THROUGH THE COURSE, STUDENTS NOT ONLY GAIN KNOWLEDGE OF CHEMICAL PRINCIPLES BUT ALSO DEVELOP ESSENTIAL SKILLS, INCLUDING:

- CRITICAL THINKING: ANALYZING PROBLEMS AND DEVELOPING LOGICAL SOLUTIONS.
- QUANTITATIVE SKILLS: PERFORMING CALCULATIONS AND INTERPRETING NUMERICAL DATA.
- LABORATORY SKILLS: GAINING HANDS-ON EXPERIENCE THAT IS CRUCIAL FOR FUTURE SCIENTIFIC ENDEAVORS.
- COMMUNICATION SKILLS: WRITING AND PRESENTING SCIENTIFIC CONCEPTS CLEARLY AND EFFECTIVELY.

RESOURCES FOR SUCCESS

TO EXCEL IN ACS GENERAL CHEMISTRY 1, STUDENTS CAN UTILIZE VARIOUS RESOURCES:

1. TEXTBOOKS: STANDARD TEXTBOOKS SUCH AS "CHEMISTRY: THE CENTRAL SCIENCE" OFFER COMPREHENSIVE COVERAGE OF TOPICS.
2. ONLINE RESOURCES: WEBSITES LIKE KHAN ACADEMY, COURSERA, AND ACS PROVIDE SUPPLEMENTAL MATERIALS AND TUTORIALS.
3. STUDY GROUPS: COLLABORATING WITH PEERS CAN ENHANCE UNDERSTANDING AND RETENTION OF COMPLEX TOPICS.
4. OFFICE HOURS: TAKING ADVANTAGE OF PROFESSORS' OFFICE HOURS FOR PERSONALIZED ASSISTANCE.

CONCLUSION

ACS GENERAL CHEMISTRY 1 IS A RIGOROUS AND REWARDING COURSE THAT FORMS THE BACKBONE OF MANY SCIENTIFIC DISCIPLINES. WITH ITS BLEND OF THEORETICAL CONCEPTS AND PRACTICAL LABORATORY EXPERIENCE, STUDENTS EMERGE BETTER EQUIPPED TO TACKLE ADVANCED SUBJECTS IN CHEMISTRY AND RELATED FIELDS. THE SKILLS AND KNOWLEDGE GAINED IN THIS COURSE NOT ONLY PREPARE STUDENTS FOR ACADEMIC SUCCESS BUT ALSO LAY THE FOUNDATION FOR FUTURE CAREERS IN SCIENCE, TECHNOLOGY, ENGINEERING, AND HEALTH. WHETHER STUDENTS AIM TO BECOME CHEMISTS, ENGINEERS, HEALTHCARE PROFESSIONALS, OR EDUCATORS, THE PRINCIPLES LEARNED IN GENERAL CHEMISTRY WILL SERVE THEM WELL THROUGHOUT THEIR ACADEMIC AND PROFESSIONAL JOURNEYS.

FREQUENTLY ASKED QUESTIONS

WHAT TOPICS ARE COVERED IN ACS GENERAL CHEMISTRY 1?

ACS GENERAL CHEMISTRY 1 TYPICALLY COVERS TOPICS INCLUDING ATOMIC STRUCTURE, PERIODIC TRENDS, CHEMICAL BONDING, STOICHIOMETRY, STATES OF MATTER, AND AN INTRODUCTION TO THERMODYNAMICS.

WHAT IS THE FORMAT OF THE ACS GENERAL CHEMISTRY 1 EXAM?

THE ACS GENERAL CHEMISTRY 1 EXAM USUALLY CONSISTS OF MULTIPLE-CHOICE QUESTIONS THAT ASSESS STUDENTS' UNDERSTANDING OF FUNDAMENTAL CONCEPTS AND PROBLEM-SOLVING SKILLS IN GENERAL CHEMISTRY.

HOW CAN I PREPARE EFFECTIVELY FOR THE ACS GENERAL CHEMISTRY 1 EXAM?

TO PREPARE EFFECTIVELY, STUDENTS SHOULD REVIEW LECTURE NOTES, COMPLETE PRACTICE EXAMS, UTILIZE ACS STUDY GUIDES, AND ENGAGE IN GROUP STUDY SESSIONS TO REINFORCE THEIR UNDERSTANDING OF THE MATERIAL.

ARE THERE ANY RECOMMENDED TEXTBOOKS FOR ACS GENERAL CHEMISTRY 1?

YES, POPULAR TEXTBOOKS FOR ACS GENERAL CHEMISTRY 1 INCLUDE 'CHEMISTRY: THE CENTRAL SCIENCE' BY BROWN, LEMAY, AND BURSTEN, AND 'CHEMISTRY' BY WILBRAHAM, STALEY, AND MATTA.

WHAT RESOURCES ARE AVAILABLE FOR STUDYING ACS GENERAL CHEMISTRY 1 CONCEPTS?

RESOURCES INCLUDE ONLINE PLATFORMS LIKE KHAN ACADEMY, EDUCATIONAL YOUTUBE CHANNELS, ACS STUDY MATERIALS, AND UNIVERSITY-PROVIDED RESOURCES SUCH AS TUTORING AND SUPPLEMENTAL INSTRUCTION.

WHAT TYPES OF CALCULATIONS ARE COMMONLY FOUND IN THE ACS GENERAL CHEMISTRY 1 EXAM?

COMMON CALCULATIONS INCLUDE MOLARITY, PERCENT COMPOSITION, EMPIRICAL AND MOLECULAR FORMULAS, GAS LAWS, AND STOICHIOMETRIC CONVERSIONS.

HOW IMPORTANT IS UNDERSTANDING CHEMICAL BONDING FOR THE ACS GENERAL CHEMISTRY 1 EXAM?

UNDERSTANDING CHEMICAL BONDING IS CRUCIAL, AS IT IS FUNDAMENTAL TO EXPLAINING MOLECULAR STRUCTURE, REACTIVITY, AND PROPERTIES OF SUBSTANCES, ALL OF WHICH ARE KEY TOPICS ON THE EXAM.

WHAT ARE SOME COMMON PITFALLS TO AVOID WHEN STUDYING FOR THE ACS GENERAL CHEMISTRY 1 EXAM?

COMMON PITFALLS INCLUDE CRAMMING, NEGLECTING PROBLEM-SOLVING PRACTICE, FAILING TO UNDERSTAND CONCEPTS RATHER THAN MEMORIZING, AND NOT UTILIZING AVAILABLE RESOURCES EFFECTIVELY.

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acs general chemistry 1: POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning (POGIL) is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines. Beyond facilitating students' mastery of a discipline, it promotes vital educational outcomes such as communication skills and critical thinking. Its active international community of practitioners provides accessible educational development and support for anyone developing related courses. Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry, The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success, develop curricular materials to assist this process, conduct research expanding what is known about learning and teaching, and provide professional development and collegiality from elementary teachers to college professors. As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels. This is an introduction to the process and the community. Every POGIL classroom is different and is a reflection of the uniqueness of the particular context – the institution, department, physical space, student body, and instructor – but follows a common structure in which students work cooperatively in self-managed small groups of three or four. The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves, based entirely on data provided in class, not on prior reading of the textbook or other introduction to the topic. The learning environment is structured to support the development of process skills -- such as teamwork, effective communication, information processing, problem solving, and critical thinking. The instructor's role is to facilitate the development of student concepts and process skills, not to simply deliver content to the students. The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy. The second part of the book focusses on implementing POGIL, covering the formation and effective management of student teams, offering guidance on the selection and writing of POGIL activities, as well as on facilitation, teaching large classes, and assessment. The book concludes with examples of implementation in STEM and non-STEM disciplines as well as guidance on how to get started. Appendices provide additional resources and information about The POGIL Project.

acs general chemistry 1: Advances in Information Retrieval Nicola Ferro, Fabio Crestani, Marie-Francine Moens, Josiane Mothe, Fabrizio Silvestri, Giorgio Maria Di Nunzio, Claudia Hauff, Gianmaria Silvello, 2016-03-09 This book constitutes the refereed proceedings of the 38th European Conference on IR Research, ECIR 2016, held in Padua, Italy, in March 2016. The 42 full papers and 28 poster papers presented together with 3 keynote talks and 6 demonstration papers, were carefully reviewed and selected from 284 submissions. The volume contains the outcome of 4 workshops as well as 4 tutorial papers in addition. Being the premier European forum for the presentation of new research results in the field of Information Retrieval, ECIR features a wide range of topics such as: social context and news, machine learning, question answering, ranking, evaluation methodology, probabilistic modeling, evaluation issues, multimedia and collaborative filtering, and many more.

acs general chemistry 1: ACS General Chemistry Study Guide Joshua Rueda, 2023-04-12 Test Prep Books' ACS General Chemistry Study Guide: 2 Practice Exams and ACS Test Prep Book [3rd Edition] Made by Test Prep Books experts for test takers trying to achieve a great score on the ACS General Chemistry exam. This comprehensive study guide includes: Quick Overview Find out what's inside this guide! Test-Taking Strategies Learn the best tips to help overcome your exam! Introduction Get a thorough breakdown of what the test is and what's on it! Chemistry Reference Sheet Atomic Structure Electronic Structure Formula Calculations and the Mole Stoichiometry Solutions and Aqueous Reactions Heat and Enthalpy Structure and Bonding States of Matter Kinetics Equilibrium Acids and Bases Solubility Equilibria Thermodynamics Electrochemistry Nuclear Chemistry Practice Test #1 Practice Test #2 Detailed Answer Explanations Studying can be

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acs general chemistry 1: ACS Monograph American Chemical Society, 1923

acs general chemistry 1: Sustainable Chemistry Research Ponnadurai Ramasami, 2023-10-24 This edited book of proceedings is a collection of seventeen selected and peer-reviewed contributions from the Virtual Conference on Chemistry and its Applications (VCCA-2022). VCCA-2022 was held online from 8th to 12th August 2022. The theme of the conference was Resilience and Sustainable Research through Basic Sciences. 500 participants from 55 countries participated in VCCA-2022. This volume 2 reflects the chapters covering computational and

industrial aspects.

acs general chemistry 1: *Broadening Participation in STEM* Zayika Wilson-Kennedy, Goldie S. Byrd, Eugene Kennedy, Henry T. Frierson, 2019-02-28 This book reports on high impact educational practices and programs that have been demonstrated to be effective at broadening the participation of underrepresented groups in the STEM disciplines.

acs general chemistry 1: *Chemical, Color and Oil Record* , 1929

acs general chemistry 1: *Proceedings of the American Chemical Society* , 1917

acs general chemistry 1: *Homeschooling High School* Jeanne Gowen Dennis, 2004

Homeschooling High School, 2nd Edition, Planning Ahead for College Admission gives you the tools you need to design a solid high-school program that both maximizes educational freedom and leads to successful college admission. Find answers to your questions about grading scales, diplomas, entrance exams, scholarships, application procedures and much more, all while maintaining your family's ideal balance between autonomy and accountability in your home high school.

acs general chemistry 1: *Chemistry* Neil D. Jespersen, Alison Hyslop, 2021-11-02 Chemistry: The Molecular Nature of Matter, 8th Edition continues to focus on the intimate relationship that exists between structure at the atomic/molecular level and the observable macroscopic properties of matter. Key revisions in this edition focus on three areas: The deliberate inclusion of more updated, real-world examples that relate common, real-world student experiences to the science of chemistry. Simultaneously, examples and questions have been updated to align them with career concepts relevant to the environmental, engineering, biological, pharmaceutical and medical sciences. Providing students with transferable skills, with a focus on integrating metacognition and three-dimensional learning into the text. When students know what they know, they are better able to learn and incorporate the material. Providing a total solution through New WileyPLUS by fully integrating the enhanced etext with online assessment, answer-specific responses, and additional practice resources. The 8th edition continues to emphasize the importance of applying concepts to problem-solving to achieve high-level learning and increase retention of chemistry knowledge. Problems are arranged in an intuitive, confidence-building order.

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acs general chemistry 1: *Laboratory Manual for Principles of General Chemistry* Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques. The manual helps students understand the timing and situations for the various techniques. The Beran lab manual has long been a market leading lab manual for general chemistry. Each experiment is presented with concise objectives, a comprehensive list of techniques, and detailed lab intros and step-by-step procedures.

acs general chemistry 1: *The Routledge Handbook of the Uncertain Self* Patrick J. Carroll, Kimberly Rios, Kathryn C. Oleson, 2025-02-25 The second edition of this handbook explores the social, cognitive, motivational, interpersonal, clinical, and applied aspects of personal uncertainty. It showcases both the diversity and the unity that defines contemporary perspectives on uncertainty in self within social and personality psychology. Featuring chapters written by distinguished scholars from a range of disciplines in psychology, this book explores the similarities and differences between personal uncertainty and other psychological experiences in terms of their nature and relationship with human thought, emotion, motivation, and behavior. It takes an interactionist perspective to examine what social and personality psychology knows about the experience of self-uncertainty in its various forms, exploring its determinants and consequences within and across individuals and groups. The new edition has been extensively revised and updated and includes new material on self-uncertainty within intimate relationships, in groups, and within spiritual and educational contexts. There is also new content on conspiratorial thinking as well as on the uncertain self within the broader context of uncertainty associated with the COVID-19 pandemic. Throughout, strategies specifically designed to assist others in confronting the unique challenges posed by self-uncertainty in ways that emphasize healthy psychological functioning and growth are

promoted. Featuring cutting-edge theory and research on the determinants, experiences, and consequences of uncertainty in the self, the handbook is an invaluable resource for researchers, practitioners, and senior undergraduate and graduate students in social and personality psychology, clinical and counseling psychology, educational psychology, and developmental psychology.

acs general chemistry 1: *Green Chemistry in Industry* Mark Anthony Benvenuto, Heinz Plaumann, 2018-09-24 The “greening” of industry processes, i.e. making them more sustainable, is a popular and often lucrative trend which has emerged over recent years. The 3rd volume of Green Chemical Processing considers sustainable chemistry in the context of corporate interests. The American Chemical Society’s 12 Principles of Green Chemistry are woven throughout this text as well as the series to which this book belongs.

acs general chemistry 1: *Tests in Print V* Linda L. Murphy, James C. Impara, Barbara S. Plake, 1999 Customers who place a standing order for the Tests in Print series or the Mental Measurements Yearbook series will receive a 10% discount on every volume. To place your standing order, please call 1-800-848-6224 (in the U.S.) or 919-966-7449 (outside the U.S.). Designed to complement the Mental Measurements Yearbooks, Tests in Print fills a pressing need for a comprehensive bibliography of all commercially available English language tests in print. Although these volumes are useful in and of themselves, their maximum usefulness requires the availability and use of the Mental Measurements Yearbooks. Although information on available tests and specific test bibliographies is valuable, the greatest service which Tests in Print can perform is to encourage test users to choose tests more wisely by consulting the MMY test reviews, test reviews from journals, and the professional literature on the construction, use, and validity of the tests being considered. Although information on available tests and specific test bibliographies is valuable, the greatest service which Tests in Print can perform is to encourage test users to choose tests more wisely by consulting the MMY test reviews, the excerpted test reviews from journals, and the professional literature on the construction, use, and validity of the tests being considered. Tests in Print V contains information on over four thousand instruments. Along with a brief description, entries include population, scoring, pricing, publisher information, and a reference list of professional literature citing articles relevant to individual instruments. Indexes of titles, classified subjects, names, and scores, as well as a publishers directory and index are included, with notations for out-of-print instruments. Information is given for tests in a wide range of areas, including education, psychology, counseling, management, health care, career planning, sociology, personnel, child development, social science, and research. Tests in Print V also provides a comprehensive index to the Mental Measurements Yearbook by directing readers to the appropriate volume or volumes for reviews of specific tests.

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