

Rome Reborn in Google Earth

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Abstract

This paper discusses the development process in building the "Ancient Rome 3D" layer in Google Earth in 2008. The layer contains a 3D model of Rome in A.D. 320, showing more than 7,000 buildings. More than 200 of the better-known buildings and features are marked with information balloons, which have links to external HTML pages that contain descriptions of the objects and a heterogeneous set of on-line resources related to each building or feature. The process was a collaboration between Google Earth software engineers and the University of Virginia.

Keywords: Google Earth, 3D, historic archaeological models

1 INTRODUCTION

Rome Reborn¹ is an international project based in the Virtual World Heritage Laboratory (<http://vwhl.cbr.virginia.edu>) at the University of Virginia. The project's ultimate goal is to build 3D digital models that illustrate the urban development of ancient Rome from the first settlement in the late Bronze Age (ca. 1000 B.C.) to the depopulation of the city in the early Middle Ages (ca. A.D. 550). The project, begun in 1996 at University of California, Los Angeles, and moved to the University of Virginia in 2004, is led by Bernard Frischer and represents the collaboration of an international team of archaeologists, architects, modelers, and computer scientists.²

In 2007, the first version of the model, Rome Reborn 1.0,³ was publicly exhibited in Rome at a press conference organized by the mayor at that time, Walter Veltroni. This model (see fig. 1) shows Rome within the Aurelian Walls in the year A.D. 320 when the city was at its peak both in terms of population (estimated to be ca. 1,000,000 people) and urban development.⁴

Rome Reborn 1.0 contains about 7,000 buildings, which for the purposes of the model were divided into Class I and Class II categories. The Class I category is for landmarks and other features that are well-known and for which there is documentary information about their location, function, size, and appearance. Class II covers buildings and features whose existence is documented but whose actual location, appearance, and size are not known (e.g., apartment buildings, single family dwellings, warehouses, and shops). Approximately 250 buildings in the model are marked as Class I, and the remainder belong to Class II.

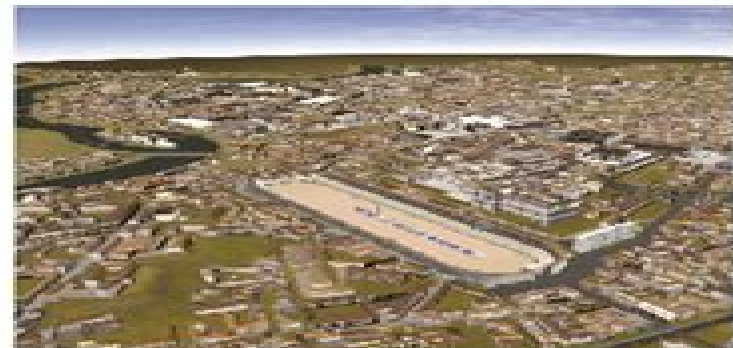


Figure 1. *Rome Reborn 1.0*

One of Rome Reborn 1.0's major weaknesses was that it could not be run in real time using the Internet. Another problem was that the Class II buildings had limited architectural details, using a library of textures for windows, doors, balconies, etc. that could be attached to the base forms. Since June, 2007, the Rome Reborn group has been actively researching and implementing

¹www.romeborn.virginia.edu.

²For the background and history of the project, see Karen Mollenhauer, "History in the Making: Scholars and Modelers Accurately Re-create Ancient Rome and Make It Accessible via the Internet," *Computer Graphics World* (December 2008): 16–25.

³www.romeborn.virginia.edu/rome_1.0.php.

⁴For the city of Rome in the fourth century, see Bernard Langdon, *Rome in Late Antiquity*, translated by Antonia Nevill (New York: Routledge, 2001): 1–57; John Curtius, *Pagan City and Christian Capital: Rome in the Fourth Century* (Oxford: Oxford University Press, 2000): 3–157.

Google Earth Training Manual

**John D. Bossler, James B.
Campbell, Robert B. McMaster, Chris
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domains in remote sensing and geographic information systems GIS including natural hazard assessment aquatic and hydrological applications and forest cover Highlights the challenges and possible solutions for AI driven tools and technologies for Earth observation data analysis Includes detailed case studies showing specific considerations and exceptions for applications of AI in GEE for Earth observation *The UNESCO Training Manual for the Protection of the Underwater Cultural Heritage in Latin America and the Caribbean* Netherlands. Ministry of Education, Culture and Science. Cultural Heritage Agency, UNESCO, 2021-03-10 De Engelstalige UNESCO Training Manual for the Protection and Management of Underwater Cultural Heritage in Latin America and the Caribbean is samen met UNESCO ontwikkeld en vormt de basis voor trainingen in onderwater cultureel erfgoedbeheer in Latijns Amerika en de Cara ben Het is een vervolg op een eerder verschenen trainingsmanual 2012 waarin gefocused werd op Azi en de Pacifische regio uitgever **Google**

Earth and Virtual Visualizations in Geoscience Education and Research Steven J. Whitmeyer, 2012-01-01 GSA Special Paper 492 consists of 35 papers that collectively synthesize the development and current uses of Google Earth and associated visualization media in geoscience education and research Chapters focus on Google Earth and related tools such as SketchUp Google Fusion Tables GigaPan and LiDAR Many of these papers include digital media that illustrate and highlight important themes of the texts This volume is intended to document the state of the art for geoscience applications of geobrowsers such as Google Earth along with providing provocative examples of where this technology is headed in the future Certified Ethical Hacker Complete Training Guide with Practice Questions & Labs: IPSpecialist, Certified Ethical Hacker v10 Exam 312 50 Latest v10 This updated version includes three major enhancement New modules added to cover complete CEHv10 blueprint Book scrutinized to rectify grammar punctuation spelling and vocabulary errors Added 150 Exam Practice Questions to help you in the exam CEHv10 Update CEH v10 covers new modules for the security of IoT devices vulnerability analysis focus on emerging attack vectors on the cloud artificial intelligence and machine learning including a complete malware analysis process Our CEH workbook delivers a deep understanding of applications of the vulnerability analysis in a real world environment Information security is always a great challenge for networks and systems Data breach statistics estimated millions of records stolen every day which evolved the need for Security Almost each and every organization in the world demands security from identity theft information leakage and the integrity of their data The role and skills of Certified Ethical Hacker are becoming more significant and demanding than ever EC Council Certified Ethical Hacking CEH ensures the delivery of knowledge regarding fundamental and advanced security threats evasion techniques from intrusion detection system and countermeasures of attacks as well as up skill you to penetrate platforms to identify vulnerabilities in the architecture CEH v10 update will cover the latest exam blueprint comprised of 20 Modules which includes the practice of information security and hacking tools which are popularly used by professionals to exploit any computer systems CEHv10 course blueprint covers all five Phases of Ethical Hacking starting from Reconnaissance Gaining Access Enumeration

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Geospatial Information Handbook for Water Resources and Watershed Management, Volume II John G Lyon,Lynn Lyon,2022-12-21 Volume II of Geospatial Information Handbook for Water Resources and Watershed Management discusses Geospatial Technology GT approaches using integrated modeling as applied to advanced water resource assessments Features include multiple date land cover analyses as change in land cover influences water quality model sensitivity analyses of DEM resolution and influences on modeling water characteristics like Manning s n development of seabed cover classification and sensitivity and forecasting urban growth over time with climate vulnerability impacts on water A detailed case study presents a range of water quality issues all effectively demonstrating GT inputs to water quality studies from headwaters to receiving estuarine waters Also analyzed are the comparison of evapotranspiration simulation performance by APEX model in dryland and irrigated cropping systems and perspectives on the future of transient storage modeling Captures advanced technologies and applications for implementation with models to address a broad spectrum of water issues Provides real world applications and case studies using advanced spectral and spatial sensors combined with geospatially facilitated water process models Features a Neuse River Basin case study integrating hydrologic methods and modeling along with remote sensing and GIS technologies for nonpoint source water quality evaluations Global coverage with applications demonstrated by more than 170 experts from around the world This handbook is a wide ranging and contemporary reference of advanced geospatial techniques used in numerous practical applications at the local and regional scale and is an in depth resource for professionals and the water research community worldwide

A Research Guide to Cartographic Resources Eva H. Dodsworth,2018-09-22 The interdisciplinary uses of traditional cartographic resources and modern GIS tools allow for the analysis and discovery of information across a wide spectrum of fields A Research Guide to Cartographic Resources navigates the numerous American and Canadian cartographic resources available in print and online offering researchers academics and students with

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Earth for Development Santiago Arnalich, Julio Urruela, 2012 This book shows you how to use a GPS and Google Earth to create simple and expressive maps to share on the web like the one shown on the cover With a reading time of a mere 10 hours you will learn to work with a GPS without making mistakes to use it with Google Earth including in areas without internet access and to quickly create diverse interactive maps that other people can see and modify over the internet without the need for experts or unnecessary complications Even though it has been written in the context of Relief and Development work the same process is valid for whatever other application Manual of Geospatial Science and Technology John D.

Bossler, James B. Campbell, Robert B. McMaster, Chris Rizos, 2010-03-05 Following in the tradition of its popular predecessor the Manual of Geospatial Science and Technology Second Edition continues to be the authoritative volume that covers all aspects of the field both basic and applied and includes a focus on initiating planning and managing GIS projects This comprehensive resource which contains contributio **Google SketchUp Cookbook** Bonnie Roskes, 2009-03-10 As the first book for intermediate and advanced users of Google SketchUp this Cookbook goes beyond the basics to explore the complex features and tools that design professionals use You ll get numerous step by step tutorials for solving common and not so common design problems with detailed color graphics to guide your way and discussions that explain additional ways to complete a task Google SketchUp Cookbook will help you Use SketchUp more efficiently by taking advantage of components and groups Learn new techniques for using Follow Me Intersect and constraints Go beyond simple textures with tools such as texture positioning and Photo Match Create animations and walkthroughs and explore design scenarios by using layers and scenes Learn how to use styles to customize your presentations Combine SketchUp with the 3D Warehouse and Google Earth Google SketchUp Cookbook is ideal for architects engineers interior designers product designers woodworkers and other

professionals and hobbyists who want to work more efficiently and achieve true mastery of this amazing tool *Google Earth Engine Applications* Lalit Kumar, Onesimo Mutanga, 2019-04-23 In a rapidly changing world there is an ever increasing need to monitor the Earth's resources and manage it sustainably for future generations Earth observation from satellites is critical to provide information required for informed and timely decision making in this regard Satellite based earth observation has advanced rapidly over the last 50 years and there is a plethora of satellite sensors imaging the Earth at finer spatial and spectral resolutions as well as high temporal resolutions The amount of data available for any single location on the Earth is now at the petabyte scale An ever increasing capacity and computing power is needed to handle such large datasets The Google Earth Engine GEE is a cloud based computing platform that was established by Google to support such data processing This facility allows for the storage processing and analysis of spatial data using centralized high power computing resources allowing scientists researchers hobbyists and anyone else interested in such fields to mine this data and understand the changes occurring on the Earth's surface This book presents research that applies the Google Earth Engine in mining storing retrieving and processing spatial data for a variety of applications that include vegetation monitoring cropland mapping ecosystem assessment and gross primary productivity among others Datasets used range from coarse spatial resolution data such as MODIS to medium resolution datasets Worldview 2 and the studies cover the entire globe at varying spatial and temporal scales *Engineer Training Manual. U.S. Army* United States. Army. Corps of Engineers Board on engineer troops, 1917 *Terrorism Online* Lee Jarvis, Stuart MacDonald, Thomas M. Chen, 2015-03-24 This book investigates the intersection of terrorism digital technologies and cyberspace The evolving field of cyber terrorism research is dominated by single perspective technological political or sociological texts In contrast Terrorism Online uses a multi disciplinary framework to provide a broader introduction to debates and developments that have largely been conducted in isolation Drawing together key academics from a range of disciplinary fields including Computer Science Engineering Social Psychology International Relations Law and Politics the volume focuses on three broad themes 1 how and why do terrorists engage with the Internet digital technologies and cyberspace 2 what threat do these various activities pose and to whom 3 how might these activities be prevented deterred or addressed Exploring these themes the book engages with a range of contemporary case studies and different forms of terrorism from lone actor terrorists and protest activities associated with hacktivist groups to state based terrorism Through the book's engagement with questions of law politics technology and beyond the volume offers a holistic approach to cyberterrorism which provides a unique and invaluable contribution to this subject matter This book will be of great interest to students of cybersecurity security studies terrorism and International Relations *Kids, Parents, and Technology: An Instruction Manual for Young Families* Eitan Schwarz MD Faacap Dlfapa, 2009-12-22 MyDigitalFamily presents the second revised electronic edition of its indispensable tool for parents Parents need help managing media at home By now you already figured out that it is not enough just to protect kids from

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