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 250 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 Reborn[1] is an international project based in the Virtual World Heritage Laboratory (http://vwhl.clas.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 reminder 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

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[1] www.romereborn.virginia.edu.

[2] For the background and history of the project, see Karen Moltenbrey, "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.

[3] www.romereborn.virginia.edu/rome_1.0.php.

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

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professionals and hobbyists who want to work more efficiently and achieve true mastery of this amazing tool *Google Earth Engine Applications* Lalit Kumar,Onisimo 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 indispensible 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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