

# 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

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## 1 INTRODUCTION

Rome Reborn<sup>1</sup> 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.<sup>2</sup>

In 2007, the first version of the model, Rome Reborn 1.0,<sup>3</sup> 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.<sup>4</sup>

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

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<sup>1</sup>[www.romeborn.virginia.edu](http://www.romeborn.virginia.edu).

<sup>2</sup>For the background and history of the project, see Karen Mollenhagen, "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.

<sup>3</sup>[www.romeborn.virginia.edu/rome\\_1.0.php](http://www.romeborn.virginia.edu/rome_1.0.php).

<sup>4</sup>For 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

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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

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Rademacher, James R. Talbot, 2000 Annotation Presents 22 papers from the July 1999 symposium written on the use of various standardized methods for specifying and controlling the compaction of soil for engineered constructed earth fills Perspectives include the historical background current state of the art practices case histories of challenging situations concerns regarding appropriate design parameters for compaction control and new methods to evaluate soil compaction and related qualities Annotation copyrighted by Book News Inc Portland OR      **The Routledge Handbook of Planning**

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Vetter, 2016-12-21 The Siege Master's Song The Recollections of Lord Godric MacEuan on the First Crusade Volume Two by Tom Vetter When justice is denied vengeance will do I am Baron Godric MacEuan As sheriff at large for Scotland I rode the entire kingdom for King Malcolm Canmore dealing with the worst of men to protect the innocent and enforce the king's law Now I am young and often underestimated because of it But that is a serious mistake for I have a talent for destruction And not even your castle can save you for I destroy castles too Yet when good King Malcolm was treacherously slain I could not save him nor bring his killer to trial because his murderer was King William Rufus of England Punish a king You cannot But you can take vengeance So King Rufus rules England and thinks himself safe to act as he likes because he wears its crown But no man is truly safe from another set upon vengeance Even a king Especially from a man with my skills SECOND VOLUME IN THE SIEGE MASTER SERIES THE EPIC STORY OF THE FIRST CRUSADE TOLD AS NEVER BEFORE AS THE FIRST HAND RECOLLECTIONS OF A SCOTTISH KNIGHT WHO BATTLES TURKS TURNCOATS STARVATION AND DEATH ITSELF TO WIN A CRUSADE AND RECOVER HOLY JERUSALEM 384 pages Release December 2016

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