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Introduction

The **Virtual Reality Modeling Language** (VRML) is a la
participant interactive simulations -- virtual worlds networ
hyperlinked with the World Wide Web. All aspects of virtu
and internetworking can be specified using VRML. It is th

VRML become the standard language for interactive simul
Web.

The first version of VRML allows for the creation of virtu
interactive behavior. These worlds can contain objects whi
worlds, HTML documents or other valid MIME types. Wh
with a hyperlink, the appropriate MIME viewer is launche
to a VRML document from within a correctly configured V
viewer is launched. Thus VRML viewers are the perfect co
standard WWW browsers for navigating and visualizing th
VRML will allow for richer behaviors, including animatio
time multi-user interaction.

This document specifies the features and syntax of Versio

VRML Mission Statement

The history of the development of the Internet has had thre
development of the TCP/IP infrastructure which allowed d
in a proximally independent way; that is, Internet provided
data sets and the hosts which manipulated them. While thi
also confusing; without any clear sense of "what went whe
restricted to the class of sysops/net surfers who could mai
the data space.

Next, Tim Berners-Lee's work at CERN, where he develop
known as **World Wide Web**, added another layer of abstra
This abstraction provided an "addressing" scheme, a uniqu
Resource Locator), which could tell anyone "where to go a
piece of data within the Web. While useful, it lacked dime
there within the web, and the only type of navigation perm
by direct reference. In other words, I can only tell you how
home page by saying, "http://www.wired.com/", which is r

fact, I need to make an effort to remember it at all. So, whi
provides a retrieval mechanism to complement the existing
a lot to be desired, particularly for human beings.

Finally, we move to "perceptualized" Internetworks, where
that is, rendered sensually. If something is represented sens
sense of it. VRML is an attempt (how successful, only time
humans at the center of the Internet, ordering its universe t
that, the most important single element is a standard that d
perception. Virtual Reality Modeling Language is that stan
universal description language for multi-participant simul

These three phases, storage, retrieval, and perceptualizatio
process of consciousness, as expressed in terms of semanti
Events occur and are recorded (memory); inferences are dr
(associations), and from sets of related events, maps of the
perception). What is important to remember is that the map
should avoid becoming trapped in any single representatio
need to *design to avoid disorientation*, we should always p
of experience we can bring into manifestation!

This document is the living proof of the success of a proce
open and flexible, responsive to the needs of a growing We
invent the wheel, we have adapted an existing specificatio
from which our own work can grow, saving years of desig
mistakes. Now our real work can begin: that of rendering o

History

VRML was conceived in the spring of 1994 at the first ann
Conference in Geneva, Switzerland. Tim Berners-Lee and
Birds-of-a-Feather (BOF) session to discuss Virtual Reality
Web. Several BOF attendees described projects already un
dimensional graphical visualization tools which interopera
agreed on the need for these tools to have a common langu
description and WWW hyperlinks -- an analog of HTML f
Virtual Reality Markup Language (VRML) was coined, an
specification work after the conference. The word 'Markup
'Modeling' to reflect the graphical nature of VRML.

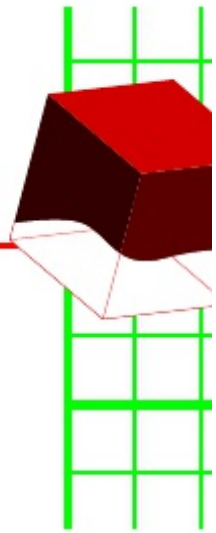
Shortly after the Geneva BOF session, the www-vrml mail
the development of a specification for the first version of V
invitation was overwhelming: within a week, there were ov
an initial settling-in period, list moderator Mark Pesce of L
intention to have a draft version of the specification ready
conference, a mere five months away. There was general a

this schedule was aggressive, it was achievable provided th
first version were not too ambitious and that VRML could
solution. The list quickly agreed upon a set of requirement
began a search for technologies which could be adapted to

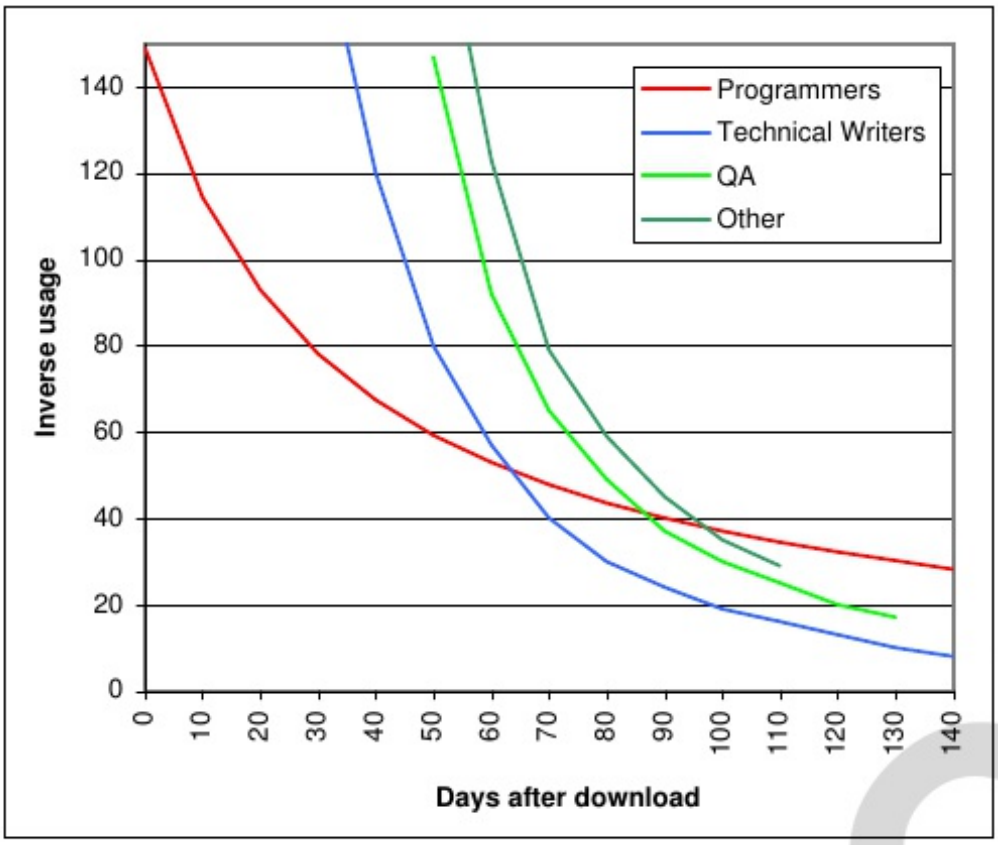
The search for existing technologies turned up a several w
much deliberation the list came to a consensus: the Open I
from Silicon Graphics, Inc. The Inventor File Format supp
3D scenes with polygonally rendered objects, lighting, mat
realism effects. A subset of the Inventor File Format, with
networking, forms the basis of VRML. Gavin Bell of Silic
Inventor File Format for VRML, with design input from th
stated that the file format is available for use in the open m
file format parser into the public domain to bootstrap VRM

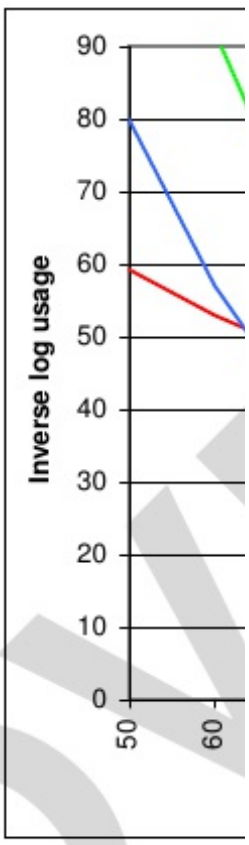
VRML

VIRTUAL REALITY MODELING LANGUAGE



A Graphical Representation of Inverse VRML Uptake





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49.8	92.846	20			
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36.2	67.402	40	120		
31.8	59.275	50	80.0	147.0	192.0
28.4	52.9	60	57.0	92.0	123.0
25.6	47.774	70	40.0	65.0	79.0
23.4	43.543	80	30.0	49.0	59.0
21.5	40.001	90	24.0	37.0	45.0
19.9	37	100	19.0	30.0	35.0
18.5	34.409	110	16.0	25.0	29.0
17.3	32.154	120	13.0	20.0	n/a
16.2	30.178	130	10.0	17.0	n/a
15.1	28.202	140	8.0	n/a	n/a