

Virtual Museums

- Cultural heritage
- Real Museum (brick-and-mortar) and Virtual Museum
- Multimedia information

Virtual museums

- 1 - Websites of existing museums
- 2 - Gateways towards several museums
- 3 - Museums without walls
- 4 - Silk Road Virtual Museum
- 5 - Conclusions

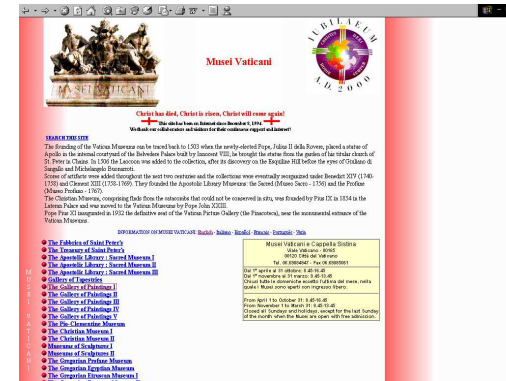
1 - Websites of existing museums

- Vatican
- Louvre in Paris
- Hermitage in St Petersburg
- Air and Space Museum in Washington DC
- Toyota
- Mutsibishi
- Ellis Island, NY

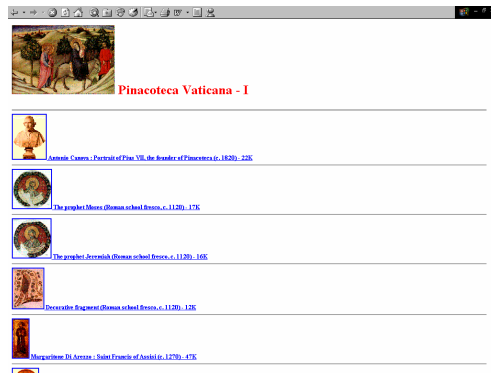
Vatican Museums

<http://www.christusrex.org/www1/vaticano/0-Musei.html>

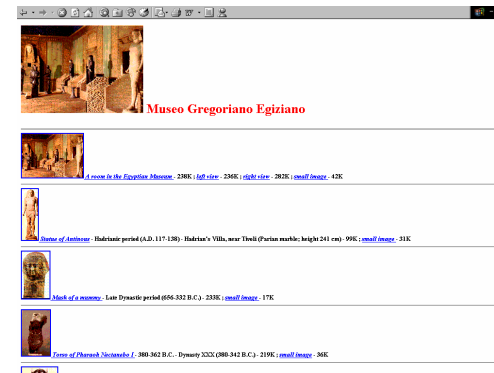
Portal



Example



Other example



Vatican museums

- One of the more accessed site
- Oldest virtual museum
- More than 60 awards
- Diversity of languages
- Simple structure
- No site map
- No search engine

Louvre

<http://www.louvre.fr/>

English portal

LOUVRE

Palace & Museum
 - History of the Louvre
 - Collections
 - Virtual Tour
 - Latest News

Activities
 - Exhibitions
 - Auditorium
 - Guided Tours and Workshops
 - Education

Information
 - Practical Information
 - Contact us
 - Publications and databases
 - Ticket Sales
 - Louvre.edu
 - Shop Online

**Exhibition
 Ingres' cartoons
 of stained glass**

Welcome to the Louvre Museum

Français
 Español
 日本語

Site Map
 CyberLouvre
 Partners

Companies
 Press Office

Louvre site map

Site Map	Home
<p>With effect from 14th July 1997, it has been possible to connect to the Louvre museum server on the Internet at the address http://www.louvre.fr</p>	<p>Designed as an introduction to a visit to the museum, this server provides the following information:</p>
<p>Notice</p>	<p>Traces the history of the Louvre.</p>
<p>History of the Louvre</p>	<p>Presents a selection of the works of art from each of the seven departments of the museum.</p>
<p>Collections</p>	<p>This section presents 70 images QTVR (360°) which allow to discover about fifty rooms of the museum.</p>
<p>Virtual Tour</p>	<p>The chapter aims to periodically highlight a work taken from the museum's collection via an article written by one of the curators of the Louvre. You will also find information on the new features of the museum under this heading (only available in the French version).</p>
<p>Latest News</p>	<p>Provides timetables, admission charges, access and visit information for the museum.</p>
<p>Visitor's information</p>	<p>Provides a bibliography of printed publications (some of which are in English), audiovisual and interactive productions (in French) produced by the Louvre museum, as well as information about the museum's databases.</p>
<p>Publications and Databases</p>	<p>Permits a dialogue between the visitors of the site and the Louvre museum.</p>
<p>Contact us</p>	<p>Offers a list of partners and other Internet sites which are accessible via the Louvre server. As well as mirror sites.</p>
<p>Entrance</p>	<p>Describes the current programme of temporary exhibitions (in English) and series of lectures, symposia, films and concerts (only available in French).</p>
<p>Exhibitions, Auditorium, Cinéma, Vidéo, Musée de la Ville de Paris et Workshops (in French only)</p>	

Louvre virtual tour

Louvre virtual tour

Louvre virtual Tour

Louvre museum

- Structure more sophisticated
- Animation
- Virtual tour

Hermitage

<http://www.hermitagemuseum.org/>

Portal

Virtual visit

Second floor

HOME HELP SITE MAP FEEDBACK SERVICES CALENDAR SHOP

Virtual Tour

INFORMATION COLLECTION HIGHLIGHTS EXHIBITIONS HERMITAGE HISTORY CHILDREN & EDUCATION DIGITAL COLLECTION

QUICK SEARCH

THE HERMITAGE
GROUND FLOOR -
FIRST FLOOR -
SECOND FLOOR -
VIEWS FROM THE ROOFS -
THE HERMITAGE THEATRE -
THE MENSHIKOV PALACE -
THE GENERAL STAFF BUILDING -
OUTSIDE VIEWS -

70: The Matisse Room

THE HERMITAGE
Second Floor

This room is situated in the part of the Winter Palace previously occupied by of the ladies-in-waiting. The exhibition features works by Henri Matisse, a leader of the European Avant-Garde, a representative of "Fauvism" - the earliest trend in 20th-century art. Worthy of special mention among the nine pictures on display are The Red Room (1903), The Dance and Music (both 1910) commissioned

help with HotMedia?

ROOM HIGHLIGHTS

http://www.hermitagemuseum.org/html/En/08/Jan88_0_2_70.html

Matisse Room

QUICK SEARCH

Information
Learn the details you need to plan a trip to the Hermitage, as well as other information about Hermitage operations.

Collection Highlights
Read detailed descriptions of the Hermitage collections, complete with images of a portion of the museum's works of art.

Exhibitions
Descriptions, schedules and ticketing information for special exhibitions at the Hermitage.

Hermitage History
Discover interesting facts about the rich history of the State Hermitage.

Children and Education
Programs and activities that educate visitors and enrich their Hermitage experience.

Digital Collection
View a portion of the Hermitage collection, which can be searched in various ways.

Virtual Tour
Take an interactive tour of the museum, including 360 degree panoramas of the rooms of the Hermitage.

Help
Our comprehensive help section can help you solve problems or answer questions you encounter while using the site.

Feedback
Use our feedback form to contribute questions, suggestions, or comments.

Services
Find out more about the services offered by the State Hermitage Museum, including tours, the museum store and café, photographic services, and more.

Site map

QUICK SEARCH

Welcome to the Digital Collection, the new virtual gallery of high-resolution artwork images from the State Hermitage Museum.

QUICK COLOUR AND LAYOUT SEARCHES

IBM's Query By Image Content (QIBC) search technology helps you locate artwork using visual tools.

Find artwork by selecting colors from a palette or by sketching shapes on a canvas. Or, refine existing search results by requesting all artwork with comparable visual attributes.

ADVANCED SEARCH

Use the Advanced Search to find artwork by artist, title, or subject, or by certain attributes such as style, genre, theme, or date.

FEATURE

Try IBM's new Zoom View technology to view images in high resolution

gallery

POWERED BY IBM

BROWSE

Paintings, Prints and Drawings	Sculpture
Machinery and Mechanisms	Arms and Armour
Furniture and Carriages	Ceramics and Porcelain
Applied Arts	Jewellery
Textiles	Numismatics and Glyptics
Costume	Archaeological Artifacts

Digital collections

Washington Air and Space Museum

<http://www.nasm.si.edu/>

Smithsonian National Air and Space Museum

National Air and Space Museum

EXHIBITIONS

- EXPLORE THE UNIVERSE
- Aerobatic Champions

NEWS, LECTURES, EVENTS

- At the Controls
- NASM PUBLICATIONS
- Wall of Honor
- NASM @ 25

SHOWS

- IMAX SPACE STATION 36
- INFINITY EXPRESS

VISITOR INFORMATION

ABOUT THE MUSEUM

STEVEN F. UDVAR-HAZY CENTER

EXHIBITIONS

NEWS, LECTURES & EVENTS

LOCKHEED MARTIN IMAX® THEATER

ALBERT EINSTEIN PLANETARIUM

COLLECTIONS & RESEARCH (Albert Einstein Planetarium)

EDUCATIONAL SERVICES

MEMBERSHIP

GET INVOLVED

GARBER RESTORATION FACILITY

Search | Features | Help | Links
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Wall of Honor

This page updated: August 31, 2002
http://www.nasa.gov/nasm
©1994-2002 National Air and Space Museum
7th and Independence Ave., SW
Washington, DC 20560
(202) 357-2700

Smithsonian Institution

Exhibitions

Smithsonian National Air and Space Museum

EXHIBITIONS

ALL Current Exhibitions | New & Forthcoming Exhibitions | Past Exhibitions | Online-Only Exhibitions | NASM Collections

This page, see New exhibitors in Museum or online. Exhibitions formerly on display in the Museum. Exhibitions only available online. Find specific NASM artifacts.

Museum Map

The National Air and Space Museum has 23 main exhibition galleries, each displaying major artifacts from the Museum's collection. [Online temporary exhibitions](#) are also displayed within the Museum. Summary information and images are available for all exhibitions. Special exhibitions have extensive online representations or "virtual exhibitions". If you are planning a Museum visit, please check the [Museum orientation system](#) information for temporary closings.

Current Exhibitions:

Exhibition	Display Dates	Availability
First Class Collection	100	permanent
Microcosms of Flight: Air Transportation	102	permanent
Business Wings	102	NOTE: Aircraft in online exhibition only, not on display.
Flight Simulator Zone NEW!	103	temporary
Aerobatic Champions NEW!	104	temporary - thru Spring 2003
Golden Age of Flight	105	permanent
JFK Aviation	106	permanent
Early Flight	107	permanent
Voyager Aircraft / Marsale	108	permanent
How Things Fly	109	permanent
Lockers of Earth	110	permanent
Exploring The Universe NEW!	111	permanent
Lower Explanations Vehicles	112	permanent
Rocketry and Space Shuttle	113	permanent

Online Exhibitions

- IMAX SPACE STATION 36
- Wall of Honor
- Lockers of Earth
- Apollo To The Moon

Example: Apollo to the Moon

APOLLO to the MOON

FLIGHT OF APOLLO 11

ONE SMALL STEP... THE FLIGHT OF APOLLO 11

Introduction

Steps on the Flightpath

The Journey Out

At the Moon

On the Moon

The Journey Home

Part of Artifacts in the Gallery

BACK NEXT

1. BACK TO SPACE

2. THE DECISION

3. REACH THE MOON

4. LUNAR LANDING

5. LATER APOLLO

6. WHAT WE LEARNED

7. AFTER APOLLO

Smithsonian National Air and Space Museum

©National Air and Space Museum
http://www.nasa.gov/nasm
Created: 1/99

Early flights

Early Flight

Gallery 107
National Air and Space Museum

Experiences the early history of the airplane—from some of the earliest notions of flying, through the first decade of powered flight. This gallery evokes the mood and excitement of a time when wings were new by depicting a 1913 aeronautical trade show. The labels are written as if it were 1913, to give the visitor a sense of how the achievements of the Wright brothers and other innovators were first introduced to the public.

- Lilienthal Hang Glider
- Langley's Currier-Straub Aerodrome
- Wright Military Flyer
- Charles McGinnis' "The Gleaner's Churn"
- Edser Flying Boat
- Benson XI


Lilienthal Hang Glider

When Otto Lilienthal built his "Lilienthal Hang Glider" in 1894, he considered it the safest and most successful of all his glider designs. In flight, the pilot hung between the wings by bars that passed beneath his feet. Lilienthal made glides of up to 1,150 feet (350 meters) in machines of this type. Despite Lilienthal's faith in the safety of his invention, he met his death following a crash in a hang glider similar to the one on exhibit here. His efforts were not in vain, however, for two young men named Orville and Wilbur Wright read about Lilienthal's experiments and were inspired to tackle the problem of heavier-than-air flight themselves. In 1899, they wrote to the Smithsonian Institution for information about experiments that had been conducted up to that time.


Smithsonian Institution photograph by M. Auro, do not use without written permission.

Collections

Smithsonian
National Air and Space Museum
HOME




COLLECTIONS




AIRCRAFT

[Aircraft of the Smithsonian](#) (Overview, images & information for all NASM aircraft)
[Aircraft on Display in the Museum](#) (alphabetical list)
[Aircraft on Display in the Museum](#) (sorted by exhibit gallery)
[Aircraft on Display in the Museum](#) (imagery index)
[Aircraft in the A-List](#) (imagery of aircraft in storage or formerly on display)
*See Also [NASM News and Events](#) for press releases and special air related resources.



SPACE ARTIFACTS

[Space History Division Artifact Collection](#)
[Major Space Artifacts on Display in the Museum](#) (alphabetical list)
[Major Space Artifacts on Display in the Museum](#) (sorted by exhibit gallery)
[Artifacts in the A-List](#) - (imagery of some space artifacts in storage or formerly on display)
*See Also [NASM News and Events](#) for press releases and special space related resources.



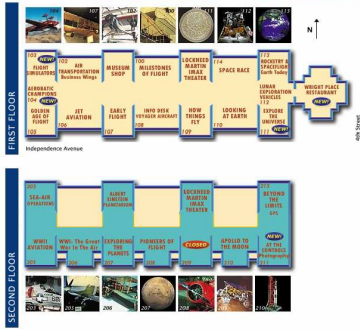
IMAGERY & ARTWORK

[NASM Archives Image Collections](#) (**NEW!** [Power Points](#) available for download)


Museum map

Smithsonian
National Air and Space Museum
EXHIBITIONS HOME

MUSEUM MAP



How things fly



An exhibition at the
National Air and Space Museum

What makes an airplane fly?
How does a spacecraft stay in orbit?
Why does a balloon float in the air?

**What are you waiting for?
Come inside and find out!!!**

[Flyer Plan](#)

[How Do Things Fly?](#)

[Resource Center](#)

[Views inside the gallery](#)

[COMMENTS](#)

Air and Space Museum

- Interesting structure
- Enormous diversity
 - Need re-engineering

8

Toyota Automobile Museum

<http://www.toyota.co.jp/Museum/index.html>

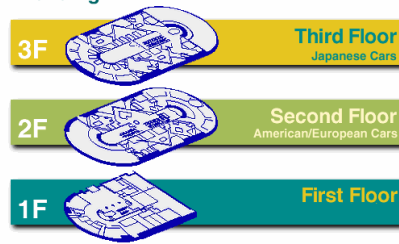
Portal



Organization of the museum

Find a Car in the Museum

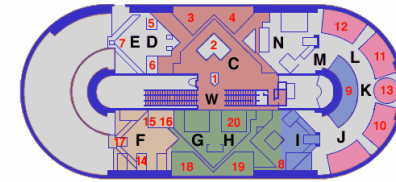
Main Building



[Third Floor](#) | [Second Floor](#) | [First Floor](#)

Organization of the second floor

Second Floor American/European Cars



Q.T.V.R.



About This Car

1. Benz Patent Motor Vehicle "Replica" (1886, Germany)
2. Panhard et Levassor E2 (1901, France)
3. Ford Model T (1908, U.S.)
4. Rolls-Royce 40/50HP Silver Ghost (1910, U.K.)
5. Baker Electric (1902, U.S.)
6. Stanley Steamer Model E2 (1909, U.S.)
7. Cadillac Model A (1903, U.S.)

Example

Romantic Fascination with Speed and Power



The Type 35, the most famous of all the Bugatti models, was a great success in production car racing and a masterpiece that amazed the whole world. The Type 35B was a high-performance model equipped with a supercharger.

(1) 1926 (2) 2400mm (3) Water-cooled, in-line 8, OHC, super-charger, 2262cm³, 130hp(96kW)/5000min⁻¹ (3820/1506/1050mm/802kg)

Toyota Museum

- Very simple structure
- Geographic organisation

Mitsubishi



http://www.mitsubishi.or.jp/vdm/nomal2_e.html

Comparison

- Selection of very common examples
- Not only presentation of collection, but also general information regarding the museum
- Limitation about virtual tour

2 - Gateways towards several museums

- Example in Canada
- Example in Portugal
- Example in UK

Virtual Museum of Canada

<http://www.virtualmuseum.ca/>

Portal

Canada
VIRTUAL MUSEUM CANADA

VMC Home | Site Map | About VMC | Feedback | VMC Friends | Send a Postcard | Français

In the News

VMC Exhibits
Image Gallery
Fun & Games
Teachers' Centre
Find a Museum
Calendar of Events
@Boutiques
MY Personal Museum

Search all of VMC

SEARCH

www.Sympatico.ca
PATTISON

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Site map

VMC Home | Site Map | About VMC | Feedback | VMC Friends | Send a Postcard | Français

SITE MAP

VMC Home Page

Select one of the following for full list:

VMC Exhibits
Image Gallery
Fun & Games
Teachers' Centre
Find a Museum
Calendar of Events
@Boutiques
MY Personal Museum

Now featuring:

- Remembering Black Loyalists, Black Communities in Nova Scotia
- Panoramas: The North American Landscape in Art
- Holman! Forty Years of Graphic Art
- The Fleetway!
- Dig this! The Cretaceous Period

See more:

- Arts & Leisure
- Science & Nature
- All Exhibits
- History & Society
- Transportation & Industry

Image Gallery

Featured Collections:

- A.Y. Jackson
- Group of Seven
- Hockey
- Jean-Paul Riopelle
- Spring
- Toys/Games
- Trains
- Totems

See also:

- Search Image Gallery
- Previously featured collections

Search all of VMC

SEARCH

Canada

Find a Museum

The screenshot shows the Virtual Museum of Canada website. At the top, there is a navigation bar with links like 'Home', 'Site Map', 'About VMC', etc. Below that is a search bar and a list of museums. The search results are filtered by 'Arts & Leisure' and show items 1-20 of 401. The first few results include:

- Walter Phillips Gallery, The Banff Centre for the Arts, Banff, Alberta.** Established in 1975, the Walter Phillips Gallery bears the name of a distinguished printmaker and painter who, from the 1930s to the 1950s, played a seminal role in the development of the visual a ...
- Whyte Museum of the Canadian Rockies, Banff, Alberta.** The Whyte Museum of the Canadian Rockies assists in the educational, cultural, and aesthetic pursuits connected with the Canadian Rockies through the collection, preservation, study, exhibition an ...
- Glenbow Museum, Calgary, Alberta.** Glenbow is western Canada's foremost centre of history and art. Under one roof, Glenbow houses a museum of western heritage, international cultural collections, an outstanding art gallery, and an ...
- Illingworth Kerr Gallery, Calgary, Alberta.**

Museums of Portugal

http://www.museusportugal.org/

Portal

The screenshot shows the Museu Portugal website portal. It features a navigation menu on the left with icons for 'Site do mês', 'Educação', 'Notícias', 'O Projecto', and 'Links'. The main content area has a large 'M' logo and the text 'Museus Portugal'. At the bottom, it says 'Desenvolvido por Sistemas de Futuro. Optimizado para Internet Explorer 5.0. Resolução de 800x600'.

Finding a museum

The screenshot shows the search interface of the Museu Portugal website. It has a header 'PESQUISA DE MUSEUS' and a search bar. There are two search options: 'Pesquisa Geral' and 'Pesquisa por Distrito'. The 'Pesquisa Avancada' section has dropdown menus for 'NOME DO MUSEU', 'LOCALIDADE', 'SERVIÇOS', and 'COLEÇÕES'. A 'PESQUISAR' button is at the bottom. There is also a map of Portugal on the right side.

Results


Lista de museus encontrados
39 RESULTADOS [DE 1 A 10]

Museu dos Baleeiros
Morada: Rua dos Baleeiros, 13
Localidade: Lajes do Pico
Telefone: +351 292 672 276
(mais informação...)

Museu das Flores
Morada: Convento de S.Boa Ventura
Localidade: Santa Cruz das Flores
Telefone: +351 295 982 199
(mais informação...)

Museu da Graciosa
Morada: Rua das Flores, 2
Localidade: Santa Cruz da Graciosa
Telefone: +351 295 712 429
(mais informação...)

Museu de S. Jorge
Morada: Rua José Azevedo da Cunha
Localidade: Calheta
Telefone: +351 295 416 323
(mais informação...)



Virtual Museum of UK

<http://www.24hourmuseum.org.uk/mapsea.html>

Gateway to over 2,500 UK museums, galleries and heritage attractions

The National Virtual Museum

Search

The National Virtual Museum

ADVANCED SEARCH

Home
News
Exhibitions
Trails
Today's Listings
Letters
Websites
Links
Kids@24
About Us
Contact Us
For Museums
For Teachers
Welsh Pages

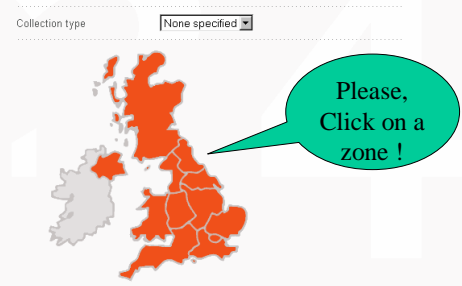
Map Search

e-news
Registration

Click on the map to see what's on in the region you chose - if you know what you're looking for choose a collection type from the drop down box above, then click the region of choice.

If you can't find what you are looking for, try an advanced search, [here](#).

Collection type



3 - Museums without walls

- Virtual Museum of Computing
- Virtual Museum of Arts (MUVA) in Montevideo, Uruguay
- Virtual Museum of Japanese Arts
- Virtual Museum of Bacteria
- Virtual Museum of Prehistoric Arts
- Virtual Pompeii

The Virtual Museum of Computing

<http://vmoc.museophile.com/>

Portal



The Virtual Museum of Computing (VMoC)

Now accessible as: vmoc.museophile.com **NEW**

This virtual museum includes an eclectic collection of [World Wide Web](#) (WWW) hyperlinks connected with the history of computing and on-line computer-based exhibits available both locally and around the world.

This museum opened on 1st June 1995. The museum receives about 200 visitors each day. Please contact [Jonathan Bowen](#) if you know of relevant on-line information not included here.

Mirror sites are available in [Sweden](#) and [USA](#) courtesy of [ICOM](#), and also [elsewhere](#), including the [UK](#), if you experience poor access speed. [Automatic redirection](#) to a mirror site is available.

Selected recent additions and events

NEW [Edsger Wybe Dijkstra](#) (1930-2002), [died](#) on 6 August 2002. See [obituary](#).

NEW Both co-inventors of [Simula 67](#), the first object-oriented programming language, died in 2002. [Ole-Johan Dahl](#) (1931-2002) [died](#) on 29 June 2002. [Kristen Nygaard](#) (1926-2002) [died](#) on 10 August 2002.

Galleries

- [Local virtual exhibits](#)
- [Corporate history and overviews](#)
- [History of computing organizations](#)
- [General historical information](#)
- [Computer-related museums](#)
- [On-line exhibits and information](#)
- [Personal collections](#)
- [Selected newsgroups](#)
- [Computer simulators](#)
- [The future](#)
- [Other links](#)

Local virtual exhibits

- [Pioneers of Computing](#) ✨ by the museum's "ritual director", [Jonathan Bowen](#)
- [The Alan Turing Home Page](#) ✨ by the museum's first "virtual curator", [Andrew Hodges](#), author of [Alan Turing: The Enigma](#). See also [Alan Turing.net](#), the Turing Archive for the History of Computing.
- [Charles Babbage \(1791-1871\)](#) including the [Difference Engine](#).
- [Mandelbrot Exhibition](#)
- [A Brief History of Algebra and Computing](#)
- [John V. Atanasoff: Obituary](#) (June 1995)
- [Early Microprocessor Instruction Set Cards](#)
- [N-dimensional cubes](#), including program code to generate them.
- Computer graphics [image archive](#), including [moving images](#)
- [3-D and SIROS images](#), including [Virtual Reality](#).

Computer-related museums

1. [American Computer Museum](#), Bozeman, Montana, USA
2. [Blitchley Park Trust](#), near Milton Keynes, UK. "Britain's Best Kept Secret." See [Computer Museum](#). See also [Codes and Ciphers in the Second World War](#) by Tony Sale. ✨
3. [Commercial Computing Museum](#) (Compuuseum), Ontario, Canada. Dedicated to the acquisition, preservation, and exhibition of artifacts and memorabilia from the commercial use of electronic, digital computers. Includes a list of [Computer History Web Sites](#).
4. **NEW** [The Computer History Museum](#), Moffett Field, California, USA. ✨
5. **NEW** [The Computer Museum](#), Boston, Massachusetts, USA. Started by [Ken Olsen](#), ex-president of **NEW** [Digital Equipment Corporation](#). Part of the [Museum of Science](#) since 1999.
6. **NEW** [Computer Museum](#), University of Amsterdam, The Netherlands. Specializes in scientific and industrial computing. Includes electronic calculators, analog computers, core memory and paper tape.
7. [Computer Museum](#), Department of Computer Science, University of Virginia, Charlottesville, Virginia, USA.
8. [Computer Museum of America](#), Coleman College, La Mesa, San Diego, California, USA. See [sample collections](#) and [The Evolution of Computing](#) slide show.
9. **NEW** [The DigiBan Computer Museum](#), California, USA.
10. [Heinz Nixdorf MuseumsForum](#), Paderborn, Germany. See [computer museum](#) (In German.)
11. [The Intel Museum](#), Santa Clara, California, USA. Micro-chips, from the company who manufactured the [first microprocessor](#) in 1971.
12. [Microsoft Museum](#). (Warning: may crash [Netscape](#) browsers! :-)
13. [Musée d'Histoire Informatique](#) (Computer History Museum). A virtual museum on personal computers from 1978 onwards, by Philippe Dubois. See also the [Pong story](#) on the first video game. (In French.)
14. [Museu Virtual da Informatica](#), Portugal. A virtual museum including a [number of computers](#) such as the [ENIAC](#). (Mostly in Portuguese)
15. [Museum of Computer Technology](#), Denver, Colorado, USA.
16. [Museum of HP Calculators](#) (MoHPC). [Learn about reverse Polish notation](#) ✨
17. [Museum "Waalidom"](#), The Netherlands. See [computer history](#) of the [INO](#) Physics and Electronics Laboratory since 1927. Supercomputers, minicomputers, etc., with many photographs. (In Dutch and some English.)
18. [National Cryptologic Museum](#), [National Security Agency](#), Maryland, USA. See [tour of exhibits](#)
19. [National Museum of Computing Instruments](#), Pisa, Italy. Includes [QuickTime VR plugin movies](#) (In Italian.)
20. [National Museum of Information Technology and Telecommunications](#), Brasilia, Brazil.
21. [Personal Computer Museum](#), Stenungsund, Sweden. In the Guinness Book of Records because of its collection of 250 different personal computers.
22. **NEW** [Rhode Island Computer Museum](#), USA.

Pioneers of Computing

NEW [Edsger Wybe Dijkstra](#) (1930-2002), [died](#) on 6 August 2002. See [obituary](#).

NEW Both co-inventors of [Simula 67](#), the first object-oriented programming language, died in 2002.
[Ole-Johan Dahl](#) (1931-2002) [died](#) on 29 June 2002.
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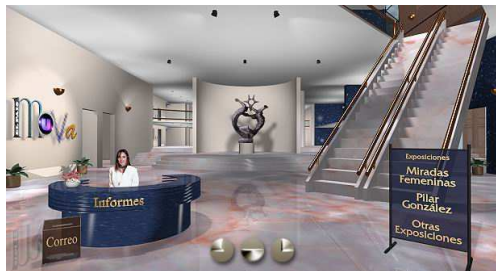
This exhibit provides links to "home" pages or other resources on people, both alive and dead, who have made a significant impact on computing.

1. [Howard H. Aiken](#) (Harvard Mark I)
2. [Marc Andreessen](#) (Netscape)
3. [John V. Atanasoff](#)
4. [Boris A. Babaijan](#) (Russian supercomputers)
5. [Charles Babbage](#) (Analytical Engine)
6. [Charles W. Bachman](#) (databases)
7. [John Backus](#)
8. [Gordon Bell](#) (Digital)
9. [Tim Berners-Lee](#) (WWW) **NEW**
10. [Vannevar Bush](#)
11. [Vinton Cerf](#) (Internet)
12. [James Clark](#) (Silicon Graphics and Netscape)
13. [Edgar F. Codd](#) (databases)
14. [Seymour Cray](#) (supercomputers)
15. [Ole-Johan Dahl](#) (Simula)
16. [Donald Davies](#) (packet switching)
17. [Edsger W. Dijkstra](#) **NEW**
18. [John Presper Eckert](#) (see also [here](#))
19. [Lawrence Ellison](#) (Oracle)

Virtual Museum of Arts

<http://www3.diarioelpais.com/muva2/#>

Portal



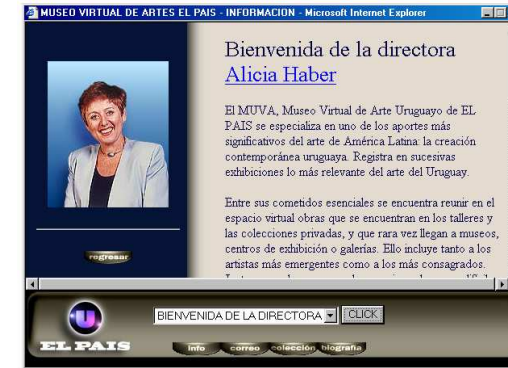
Exposition « Pilar Gonzalez »



Other view



The head



How to navigate



Virtual Architecture



Virtual Museum of Japanese Arts

<http://www.jinjapan.org/museum/menu.html>

Portal

The Virtual Museum of Japanese Arts



Welcome to the JIN Virtual Museum, which brings all the beauty of Japan's traditional culture to your screen. We hope that you enjoy your visit.

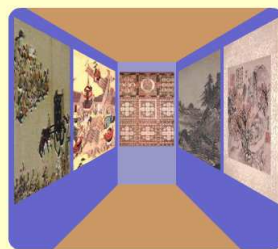
Fine arts

Fine Arts

Painting

Japanese painting is explored by considering issues presented by the traditional Japanese types of painting, which are Scroll Painting (Emaki), Screen and Partition Painting (Shoheji), Buddhist Painting (Butsuga), Ink Painting (Suibokuga), and Literati Painting (Bunjinga).

Overview History



Scroll Painting Screen and Wall Painting Buddhist Painting Ink Painting Literati Painting

<http://www.jinjapan.org/museum/paint.html>

Crafts

Crafts



Woodwork and Lacquer ware

Japanese woodcrafts, lacquer ware and mother of pearl inlay "raden" with explanations of techniques.

Metalwork

Bronze ornaments used in ancient religious rituals and the cast iron kettles used in the tea ceremony.

Ceramics

Ancient earthenware and the tea utensils used in the 15th to 17th centuries, the prime time for the tea ceremony.

Woven and Dyed Textiles

Some examples of Japanese brocades and the fashionable dresses of samurai and women of upper class from the 12th to 19th centuries.

Swords and Armor

Japanese armor including ancient swords of exceptional quality worn by the samurai in the 16th to 19th centuries.

Virtual Museum Theatre

Cafe

Virtual Museum Theatre


You can enjoy movies of Japanese festivals and martial arts in this section.

Movies of Japanese Festivals

Enjoy the realistic atmosphere of a movie by choosing from ten representative Japanese festivals.

Movies of Japanese Martial Arts

Enjoy the realistic atmosphere by choosing representative movies of Japanese martial arts.



QuickTime Get 4.0 A QuickTime Player Plug-in is required to view this site

Appetizing Wagashi

Cafe

Wagashi

"Wagashi" decorates each of the Japanese seasons

- Spring "Wagashi"
- Summer "Wagashi"
- Autumn "Wagashi"
- Winter "Wagashi"
- "Wagashi" for celebrations




Virtual Museum of Bacteria

<http://www.bacteriamuseum.org/main1.shtml>

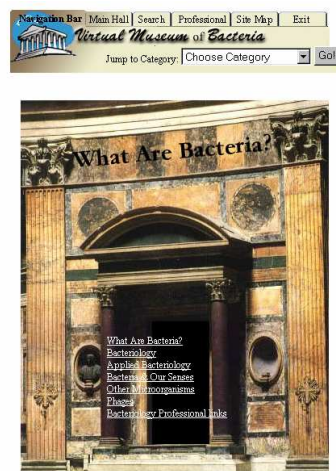
Navigation Bar: Main Hall | Search | Professional | Site Map | Exit

Virtual Museum of Bacteria

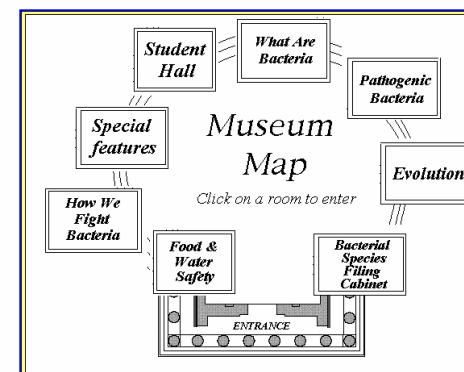
Jump to Category: Choose Category [v] Go!



Entering



Bacteria Museum Map



Example



Legionellae

View the organism: [Legionella pneumophila under the microscope](#) (courtesy D. Kunkel)

Collection sites, home-pages

- [Legionella homepage](#) (Legionella.org)
- [Legionella home page](#) of OSHA (Occupational safety and health Administration US Dept. of Labor)
- [Legionella at the Wonderful World of Diseases](#), includes data on epidemiology [collection of links on Legionella](#)HC information resources

Fact sheets, consumer guides, general information

- [Legionella fact sheet](#) from Nat. Inst. Environmental Health Science
- [Legionnaires' disease: frequently asked questions](#)HC Information Resources
- [Legionnaires' disease: discovery, incidence, diagnosis](#)HC Information Resources
- [Legionellosis](#) at CDC
- [Legionella can be a killer](#) (Family Medicine)

Lectures

- [clinical symptoms of pneumonia](#) (N. Chamberlain) [Legionella](#) in Microbook by WC Winn

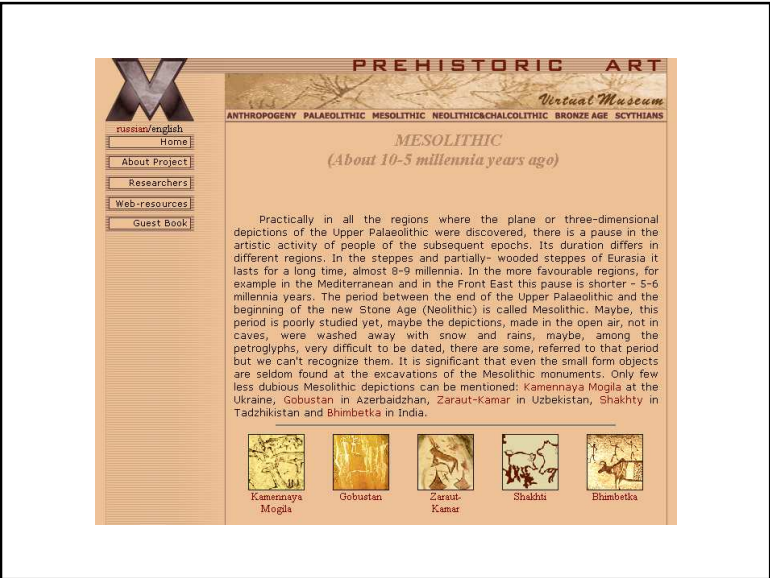
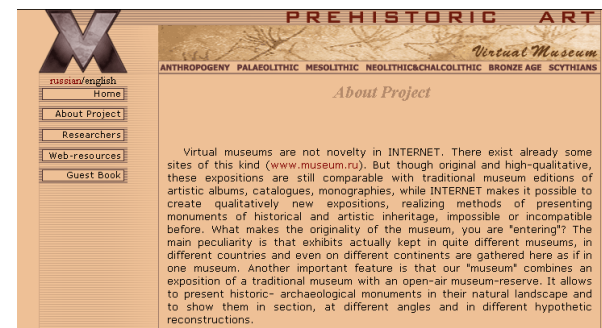
Virtual Museum of Pehistoric Art

<http://vm.kemsu.ru/>

Portal



Subportal



Zaraut Kamar in Uzbekistan



Virtual Pompei 3D Archaeopark

<http://www.virtualpompei.it/>



Films 3D

The Stereo 3D digital Films for special 3D projection rooms:

<p>1) "THE VOLCANO OF THE GODS" Digital graphic Stereo 3D film in Italian, English, French and Japanese versions (soon the film will be translated into German and Spanish). Visitors, provided with polarised glasses, are taken back to Pompeii at the beginning of the first millennium, where they can visit temples and houses take part in the eruption of 24 August 79 A.D., and experience the tragic moment for themselves... (8.5 minutes long)...</p> <p>Download</p>	<p>2) "POMPEI 79 A.D." about Ancient Pompeii daily life. An artist is realizing a precious mosaic, but gets drunk and dreams to be involved in an illegal religious ceremony in honour of Dionysius (so was called Bacchus, the god of wine) in the triclinium (dining room) of Villa dei Misteri. He is enjoying the dance of a beautiful priestess when the Vesuvius... (11 minutes long)...</p> <p>Download</p>	<p>3) "THE SIBILLA LEGEND" Underwater adventures inspired to the legend of "Sibilla Cumana" the most famous fortune teller of Roman Empire living in Cumae (not far from Pompeii, on the other side of Naples bay). The Sibilla was a beautiful girl who had a talent for telling the future. The god Apollo promised her anything in order to win her favours. The woman asked eternal life, but forgot to ask eternal youth. The Sibilla lived a number of centuries and the power of her prophecies was incredible, but sickness and old age turned her into a human larva and she decided only to die. A day...</p> <p>Download</p>
Download	Download	Download

Danzatrice





Image generation and archeology

- Computer image generation
- Virtual reality
- Augmented reality

Conclusion about virtual museum without walls

- Flexibility of design: they are not limited by the material they possess
- Possibility of integrating everything new
- Nothing regarding local organization (opening hours, etc)
- Not limited to conventional plastic arts

4 - Silk Road Virtual Museum

- UNESCO initiative
- Objective:
 - cultural heritage along this road (website)
 - 8 000 Km, 25 centuries
 - importance for the world history
- Extremities: Lyon and Tokyo
- First symposium in Tokyo, December 2002

Some Silk Road Maps

Heritage Net, Central Asia

<http://www.unesco.kz/heritagenet/>

HeritageNet - Central Asia

Choose region:

HeritageNet Central Asia - is a telecommunication network about historical, cultural and nature heritage of the Central Asia countries (Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan).

For better look use 800x600

visitors:

Our mirror: www.unesco.kz/heritagenet/

Central State Museum of Kazakhstan

http://www.unesco.kz/heritagenet/kz/hn-english/csmrk/eng/index_en.htm

CENTRAL STATE MUSEUM OF KAZAKHSTAN

- [GENERAL INFORMATION](#)
- [HISTORY OF THE MUSEUM](#)
- [OUR SERVICES](#)
- [EXPOSITION](#)
- [COLLECTIONS](#)

Jurt

Iranian Cultural Heritage Organization

<http://www.iranmiras.org>

Carpet Museum of Iran

<http://www.carpetmuseum.org/virtuals/virtualtours.htm>

Looking for Historical Buildings

Reza Abbasi Museum

<http://www.rezaabbasimuseum.org>

Asia Pacific Cultural Heritage Protection Database

<http://www.nara.accu.or.jp/chdb/english/index.html>



The "Asia-Pacific region", referred to in this database, currently covers the UNESCO Member States Listed below (41 countries)


Afghanistan	Australia	Bangladesh
Bhutan	Cambodia	China
Cook Islands	Fiji	India
Indonesia	Iran	Japan
Kazakhstan	Kiribati	Kyrgyz
Lao P.D.R.	Malaysia	Maldives
Marshall Islands	Mongolia	Myanmar
Nauru	Nepal	New Zealand
Niue	Pakistan	Palau
Papua New Guinea	Philippines	Republic of Korea
Samoa	Solomon Islands	Sri Lanka
Tajikistan	Thailand	Tonga
Turkmenistan	Tuvalu	Uzbekistan
Vanuatu	Viet Nam	


(countries are listed in an alphabetical order)

Mogao Caves

Outline of the Heritage

Mogao Caves



Mogao Caves	
Classification	Cultural Heritage
Name	Mogao Caves
Related Sites	-
Area	length: 1.6 km
Place	Dunhuang, Gansu Province, People's Republic of China
Map	

Tokyo Symposium

<http://www.nii.ac.jp/dsrtohyo/dsrrep/dsrrep.html>



Towards this museum

- Needs assessment (What ?)
- Specification
- Linguistic problems
- Selection of collections
- Virtual Tours design
- Problems of distribution, loading, consistency, etc.

Possible
structure



5 - Conclusions

- Virtual museum is a very interesting concept
 - Websites of existing museums
 - Gateways to national museums
 - Virtual museums without walls
- Various possibilities of organizing the information
 - Virtual tours
- Can inspired the design of the Digital Silk Road Museum

Thanks for your attention!

