

A
Visual
History
Of
Modern
Architecture

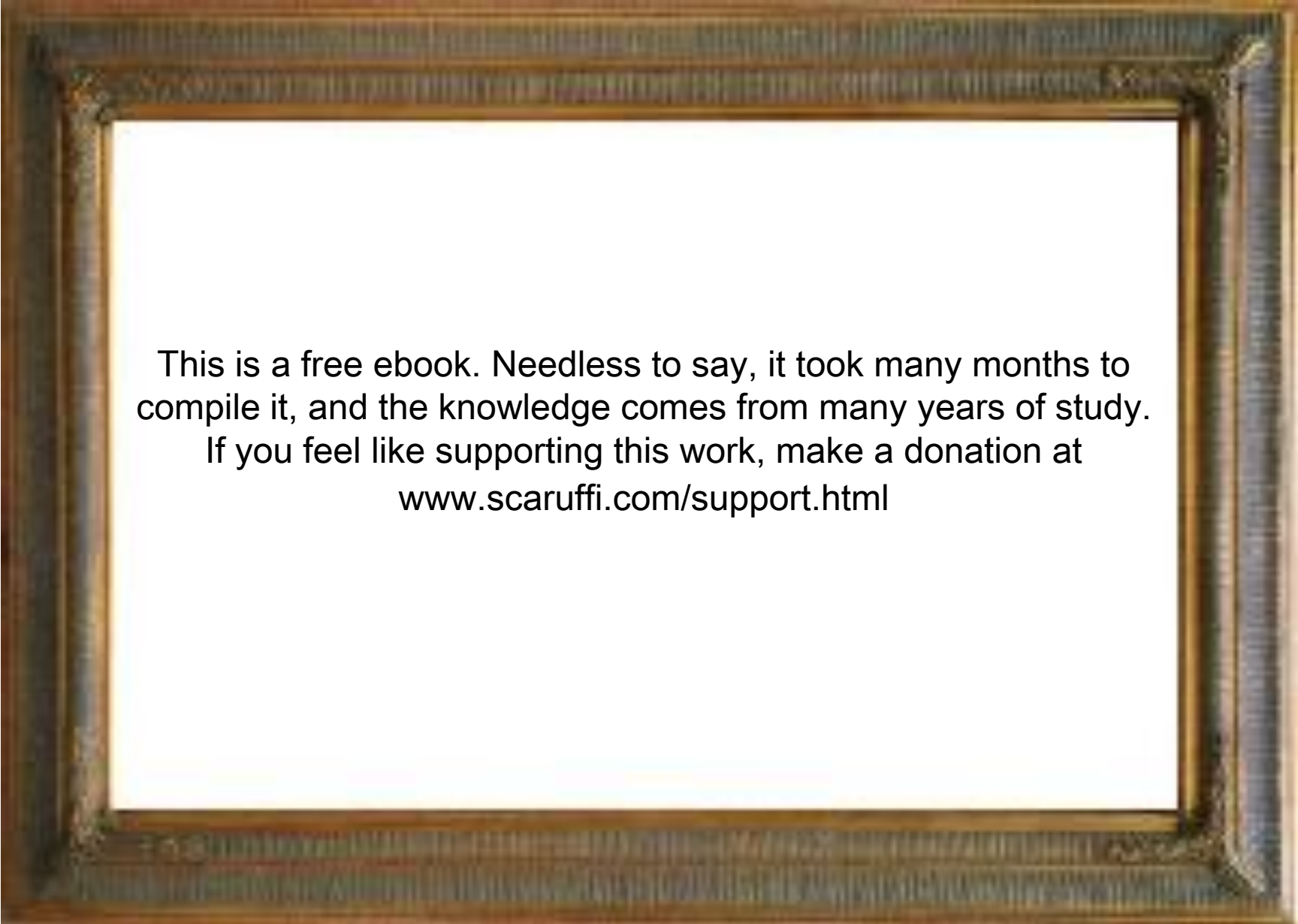
Piero Scaruffi

2021

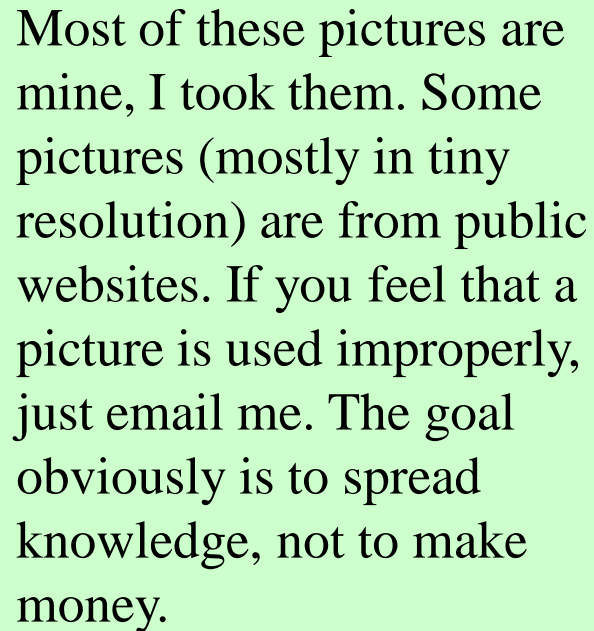
A Visual History of Modern Architecture

July 2013-21

Piero Scaruffi
www.scaruffi.com



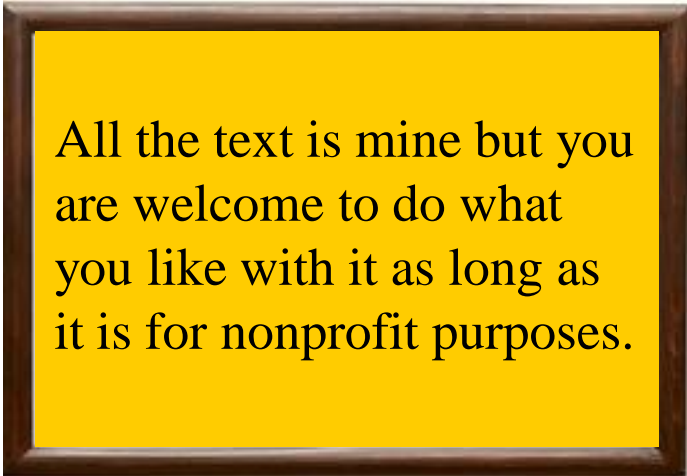
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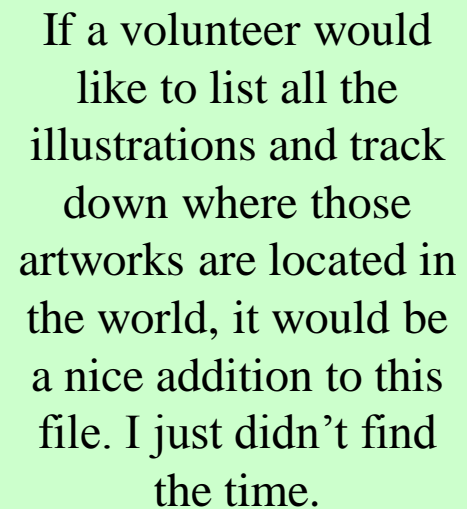
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All the text is mine but you are welcome to do what you like with it as long as it is for nonprofit purposes.



If a volunteer would like to list all the illustrations and track down where those artworks are located in the world, it would be a nice addition to this file. I just didn't find the time.

The Victorian Age

- Neogothic Architecture
 - Augustus Pugin: Houses of Parliament, London (1840)
 - Ralph Adams Cram: St John the Divine, New York (1892)



The Victorian Age

- Neogothic Architecture
 - George Gilbert Scott: Midland Grand/ St Pancras Renaissance, London (1873)
 - Giles Scott: Anglican Cathedral, Liverpool (1910)



The Victorian Age

- Revivalist Architecture
 - Charles Garnier: Opera, Paris (1861)
 - Paul Abadie: Sacre Coeur, Paris (1874)



The Victorian Age

- Revivalist Architecture
 - Joseph Poalaert: Palais de Justice, Brussels (1866)
 - Henry Richardson: Trinity Church, Boston (1872)



The Victorian Age

- Revivalist Architecture
 - Giuseppe Sacconi: Monumento a Vittorio Emanuele (1885)
 - John-Francis Bentley: Westminster Cathedral, London (1895)



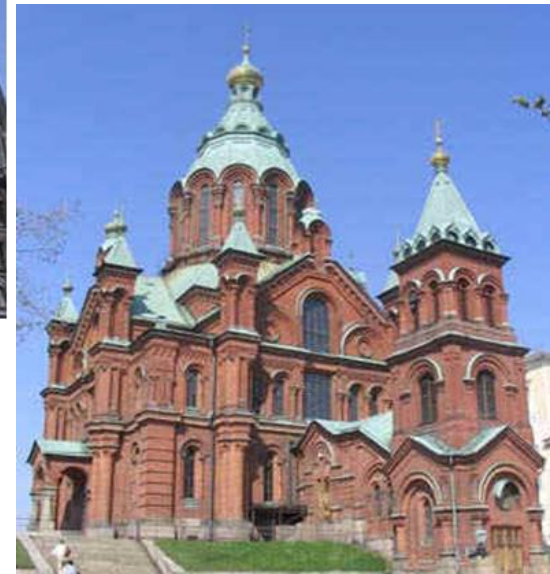
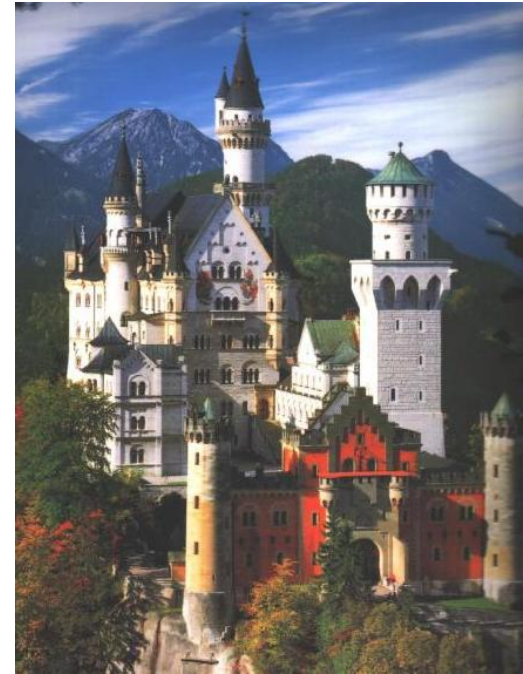
The Victorian Age

- Revivalist Architecture
 - Richard Morris Hunt: Court of Honor at the Columbian Exposition, Chicago (1893) launches the "City Beautiful" Movement



The Victorian Age

- Revivalist Architecture
 - Christian Jank:
Neuschwanstein
Castle (1869-92)
 - George
Hauberisser: Neues
Rathaus, Munich
(1909)
 - Alexander
Gornostajev:
Uspenski
Cathedral, Helsinki
(1868)



The Victorian Age

- Revivalist Architecture
 - Thomas Walter: Capitol, Washington (1863)
 - Josefa Zitka: Opera, Prague (1883)
 - Axel Anderberg: Opera, Stockholm (1898)



The Victorian Age

- Art Nouveau
 - Antoni Gaudi (1852)
 - Sagrada Familia, Barcelona (1883-..)
 - Casa Batllo, Barcelona (1905)
 - Otto Wagner: Steinhof Asylum, Vienna (1907)
 - Joseph Maria Olbricht: Secession Gallery, Vienna (1899)



The Victorian Age

- Art Nouveau
 - Victor Horta (1861)'s house for Tassel in Brussels (1893)
 - Hector Guimard (1867) near Paris (1904)

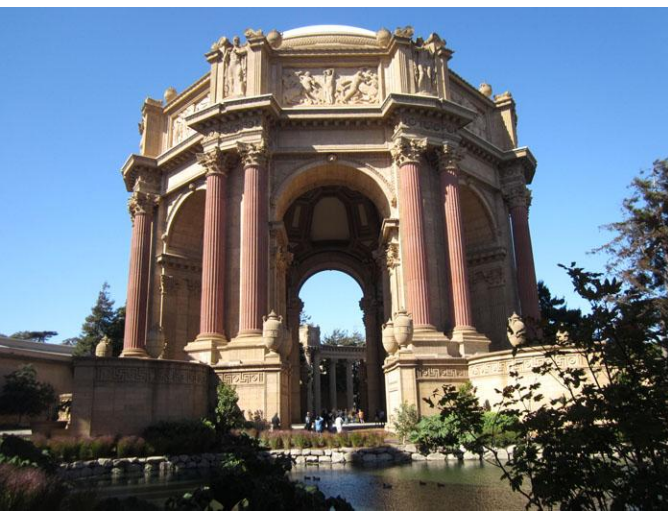


Horta



The Victorian Age

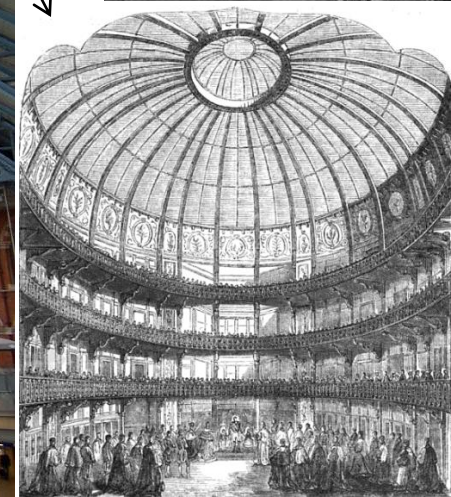
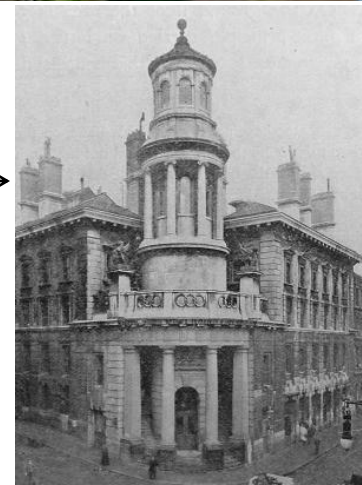
- Art Nouveau/ USA
 - Louis Sullivan (1856)
 - Auditorium Building, Chicago (1889)
 - Carson Pirie Scott, Chicago (1904)
 - “Form ever follows Function”
 - Bernard Maybeck (1862)
 - Palace of Fine Arts, San Francisco (1915)



The Victorian Age



- Architecture of the Victorian Age
 - Richard Turner: Palm House, Kew (1845)
 - Joseph Paxton: Crystal Palace, London (1851)
 - James Bunning: Coal Exchange, London (1846)
 - William-Henry Barlow: St Pancras Station, London (1868)



The Victorian Age

- Architecture of the Victorian Age
 - Hendrik Berlage: Stock Exchange, Amsterdam (1898)
 - Eliel Saarinen: Railway Station, Helsinki (1910)
 - Gustave Eiffel: Tour Eiffel (1889)



The Victorian Age

- Skyscrapers
 - Steel frame and electricity (elevators and lighting) make high-rise buildings feasible for rebuilding Chicago after the great fire (1871)
 - William LeBaron-Jenney’s “Home Insurance Company Building” (1885)
 - Paul Sullivan publishes the article “The Tall Office Building Artistically Considered” (1896)

The Victorian Age

- Architecture of the Victorian Age
 - Daniel Burnham: Flatiron, New York (1902)
 - Cass Gilbert: Custom House, New York (1907)
 - William Kendall: Municipal Building, New York (1914)
 - Cass Gilbert: Woolworth Building, New York (1913)

Flatiron



Municipal



The Victorian Age

- Architecture of the Victorian Age
 - Giuseppe Mengoni: Galleria Vittorio Emanuele, Milano (1860)
 - Giacomo Matte`-Trucco (1869): Fiat Factory, Torino, Italy (1923)
 - Joseph Hoffman (1870): Palais Stoclet, Brussels (1911)



The Victorian Age

- Architecture of the Victorian Age
 - Jozse Plecnik (1872)
 - Church of the Holy Spirit, Vienna (1913)
 - Three Bridges, Ljubljana, Slovenia (1932)
 - Sacred Heart, Prague (1928)



The Victorian Age

- Architecture of the Victorian Age
 - Tatsuno Kingo: Bank of Japan, Tokyo (1896)
 - Tatsuno Kingo: Tokyo Station (1914)



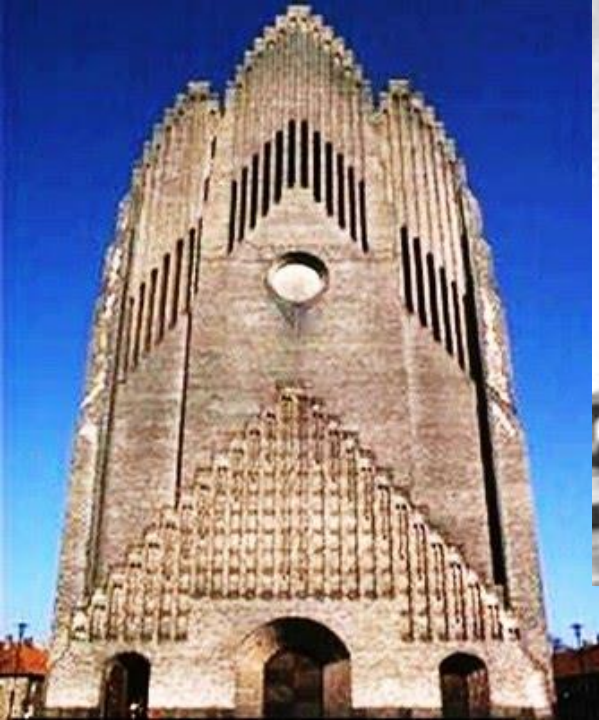
The Victorian Age

- Architecture of the Victorian Age
 - Sone Tatsuzo: Memorial Library (1912) of Keio Univ
 - Sone Tatsuzo: Nihon Yusen building (1923)
 - Okada Shinichiro: Kabukiza/ Kabuki Theater (1924)



The Victorian Age

- Expressionism
 - Peter Behrens (1868): Turbine Hall, Berlin (1909)
 - Max Berg: Jahrhunderthalle, Breslau (1913)
 - Peter Jensen Klint (1853): Grundtvig Church, Copenhagen (1927)
 - Henry van de Velde (1863): Werkbund Theatre, Cologne (1914, destroyed)
 - JM Van der Meij: Scheepvaarthuis, Amsterdam (1912)



Grundtvig Church



Werkbund Theatre



Jahrhunderthalle



Turbine Hall

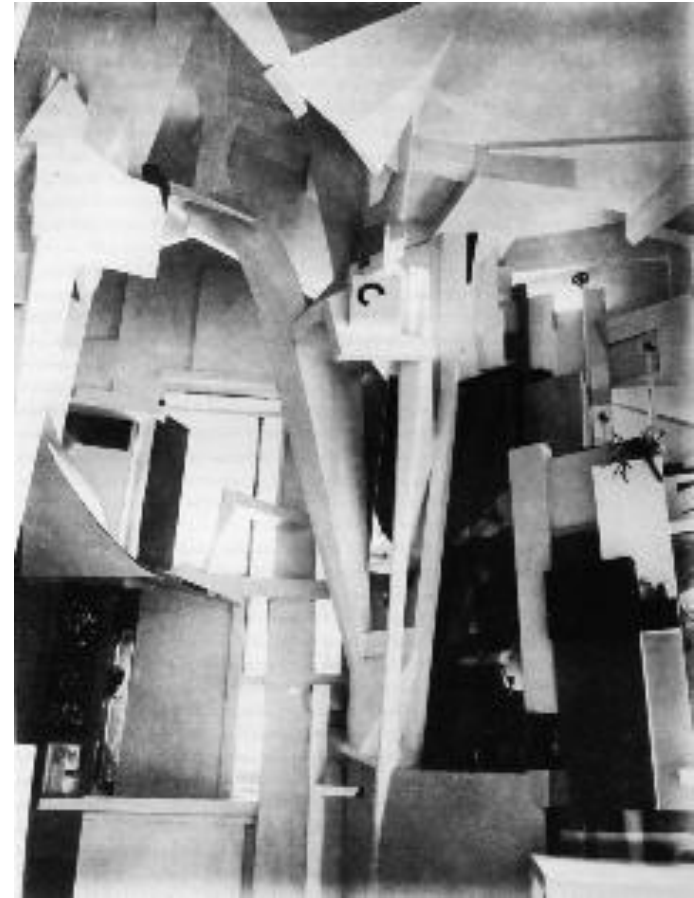
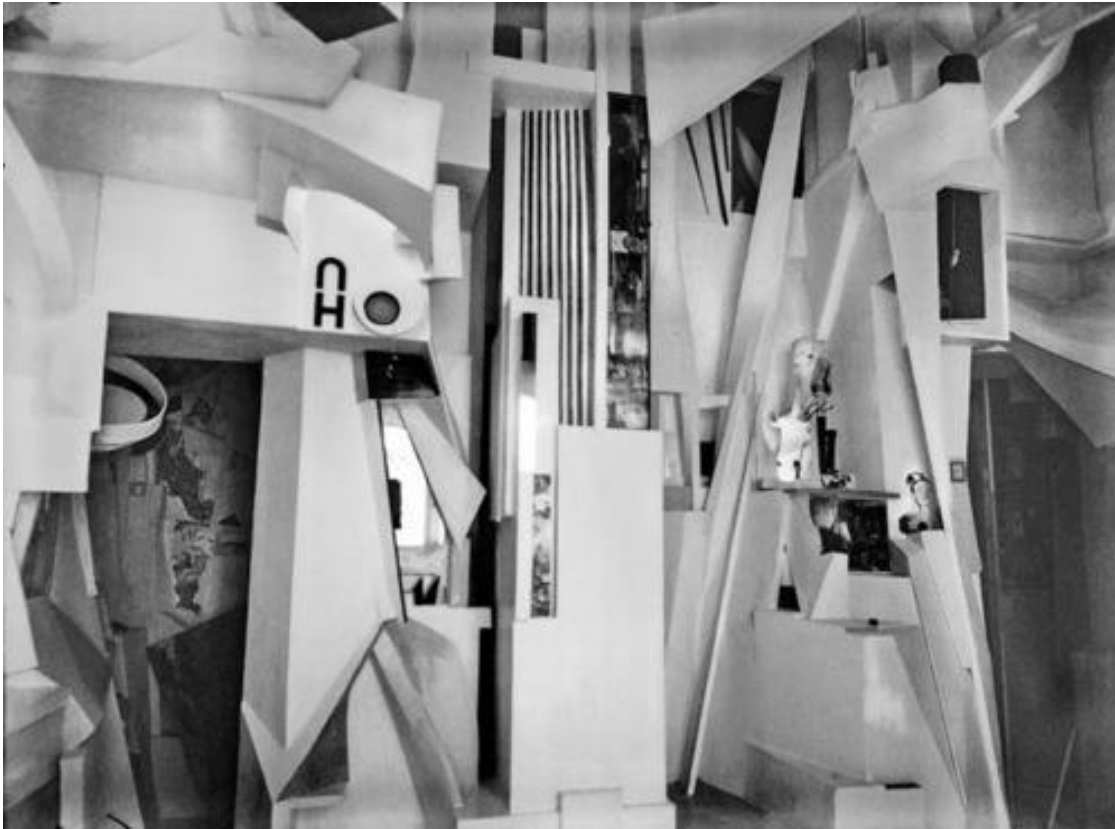
The Victorian Age

- Expressionism
 - Bruno Taut (1880): Glass House, Cologne (1914)
 - Hans Poelzig (1869): Grosses Schauspielhaus, Berlin (1919)
 - Erich Mendelsohn (1887): Einsteinturm, Potsdam (1921)



The Victorian Age

- Expressionism
 - Kurt Schwitters (1887, Germany): Merzbau (1923)



The Victorian Age

- Proto-modernism
 - 1910: Adolf Loos' "Ornament and Crime": elimination of ornament from useful objects (proto-Bauhaus)
 - 1913: Fagus Works by Walter Gropius



The Modernist Age

- The International Style
 - No style
 - Spartan materialism and rational planning
 - Hidden idealistic intent (urban or environmental concerns)
 - Walter Gropius (1883, Germany)
 - Bauhaus, Dessau (1925)
 - Moves to the USA
 - Ludwig Mies van der Rohe (1886)
 - Moves to the USA
 - Richard Neutra (1892, Austria)
 - Moves to the USA



The Modernist Age

- The International Style
 - Charles-Édouard Jeanneret/ Le Corbusier (1887)
 - “Vers Une Architecture” (1923)
 - “Pavillon de l’Esprit Nouveau” (1925)
 - Villa Savoye (1931)
 - Influence of Frederick Winslow Taylor’s “The Principles of Scientific Management” (1911) and Henry Ford’s assembly line: labor efficiency, industrial standardization

The Modernist Age

- The International Style

- Le Corbusier

- Chandigarh High Court, India (1952)



Villa Savoye (1931)



Notre-Dame-de-Haut, Ronchamp (1950-1955)

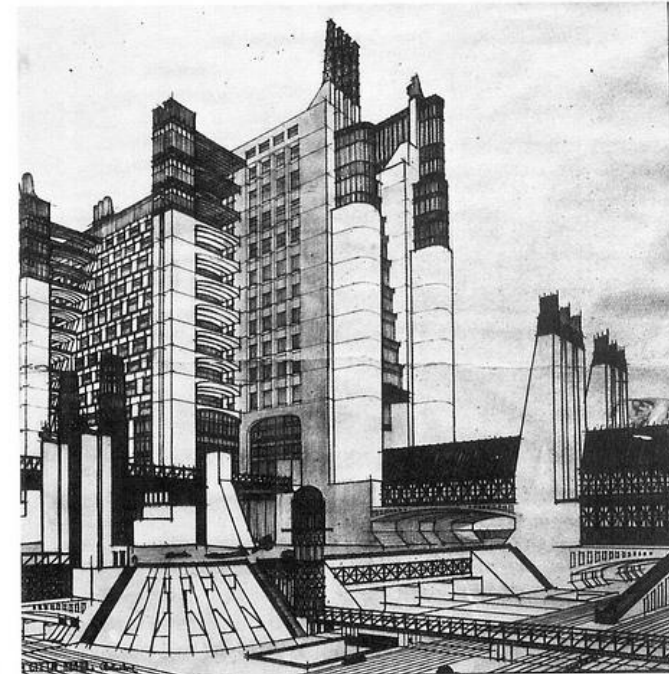
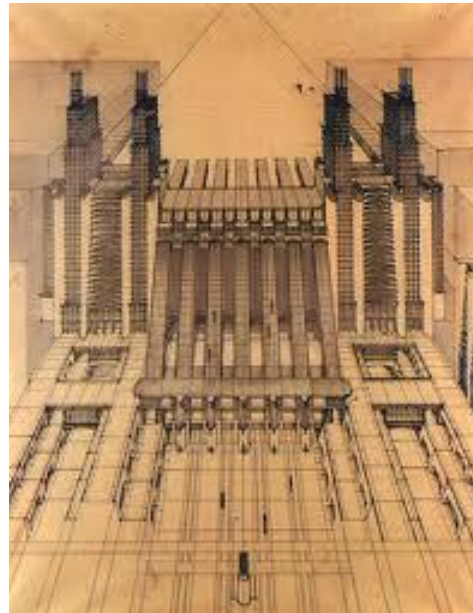
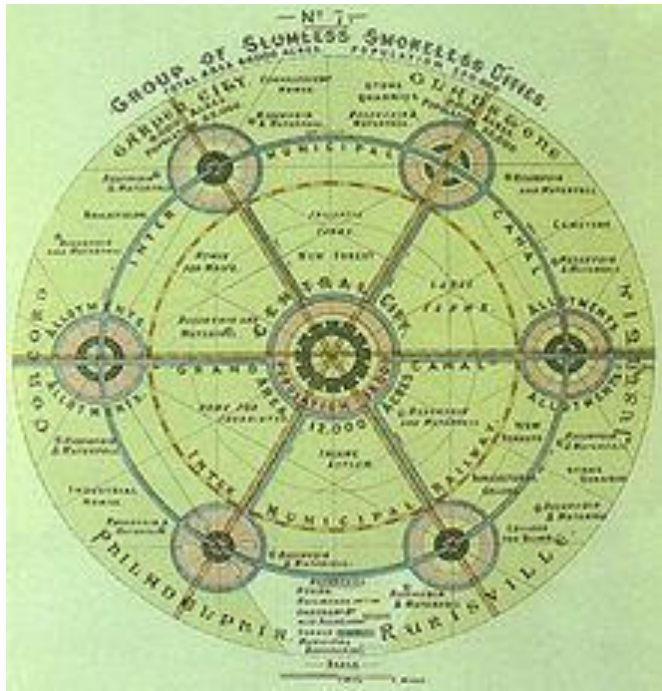


La Tourette monastery, France (1957-60)



The Modernist Age

- The Ideal city
 - Ebenezer Howard: “Garden City” (1902)
 - Antonio Sant’Elia: “Citta` Nuova” (1914)



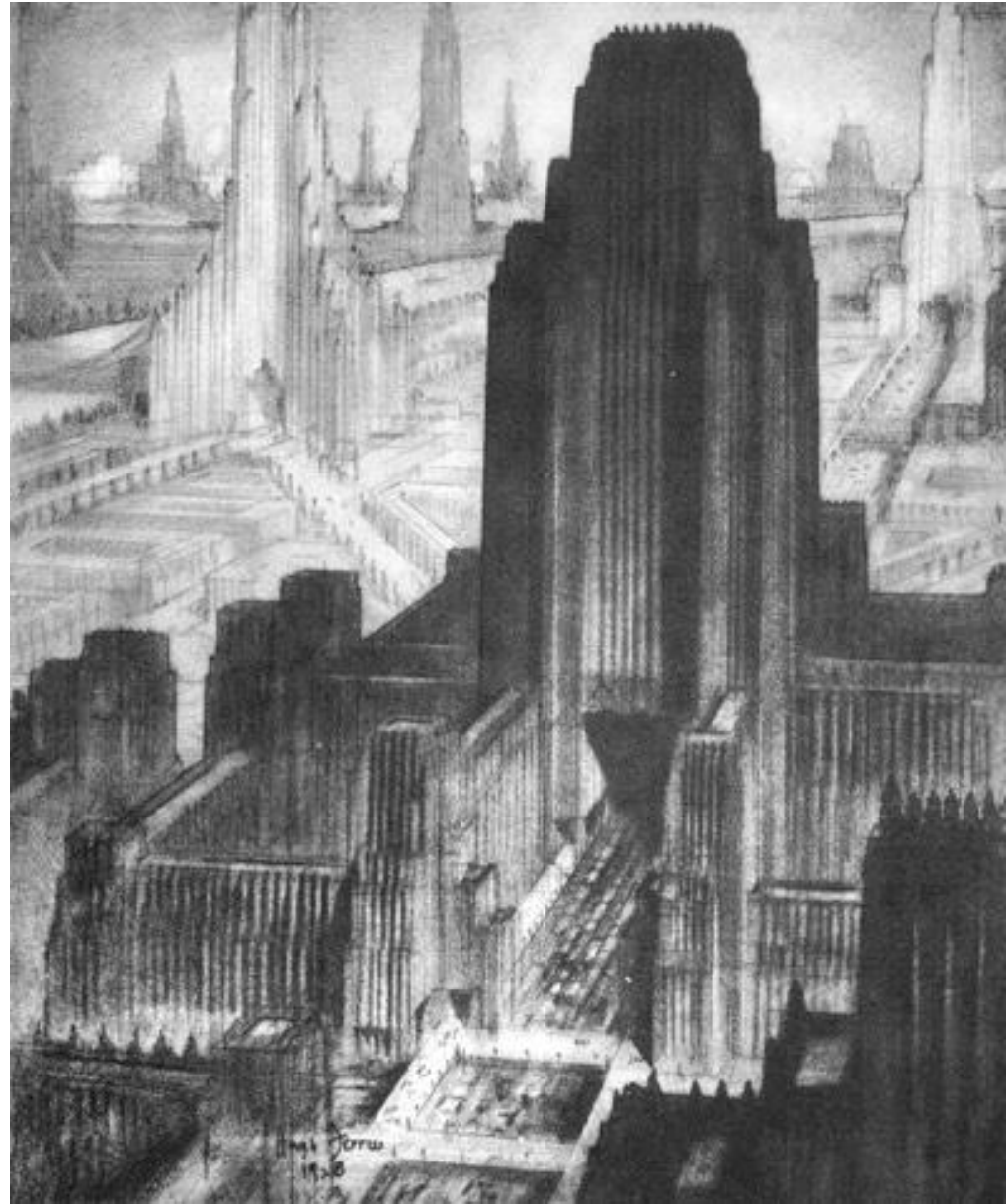
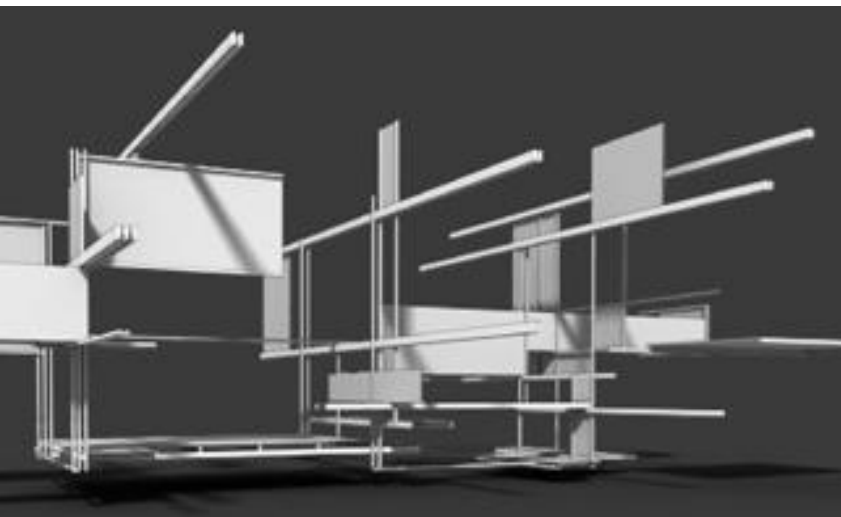
The Modernist Age

- Garden Cities
 - Ebenezer Howard's Letchworth (1903)
 - Public parks and private lawns
 - Wide boulevards
 - Radial rather than linear
 - Separate areas for commercial, industrial, residential and public districts
 - Dresden-Hellerau (1909)



The Modernist Age

- The Ideal City
 - Hugh Ferriss: “The Metropolis of Tomorrow” (1929)
 - Frederick Kiesler: “City in Space” (1925)

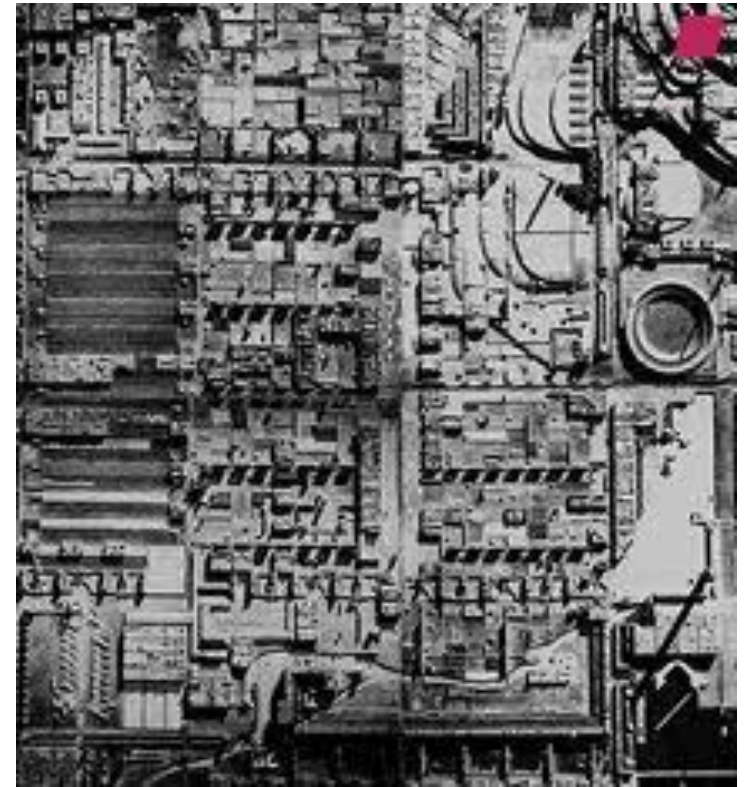


The Modernist Age

- The Ideal City
 - Le Corbusier: Contemporary City (1922)
 - High-density population
 - Open spaces for the community not the individual
 - “A house is a machine for living in”
 - Frank Lloyd Wright: “Broadacre City” (1931)
 - Low density population
 - Open space for the individual

The Modernist Age

- The Ideal City
 - Le Corbusier: “Plan Voisin” for rebuilding Paris (1925)
 - Frank Lloyd Wright: “Broadacre City” (1931)



The Modernist Age

- The Ideal City
 - What gets implemented is instead driven by economics - Rockefeller Center, New York (1931-37) - or fascism - Marcello Piacentini's EUR, Roma (1938-42)

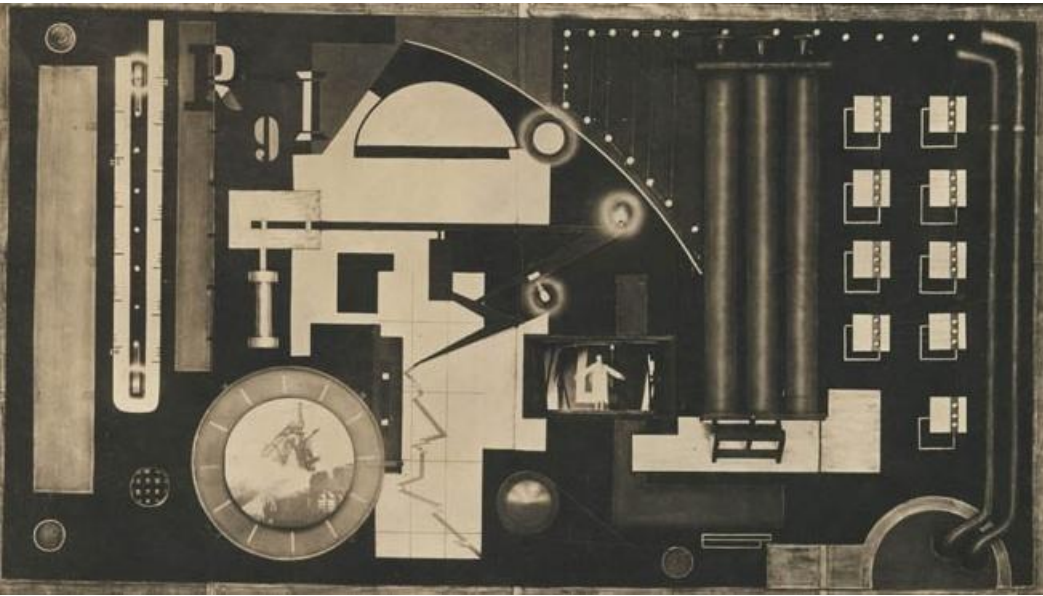
The Modernist Age

- The real city
 - Manhattan in 1930

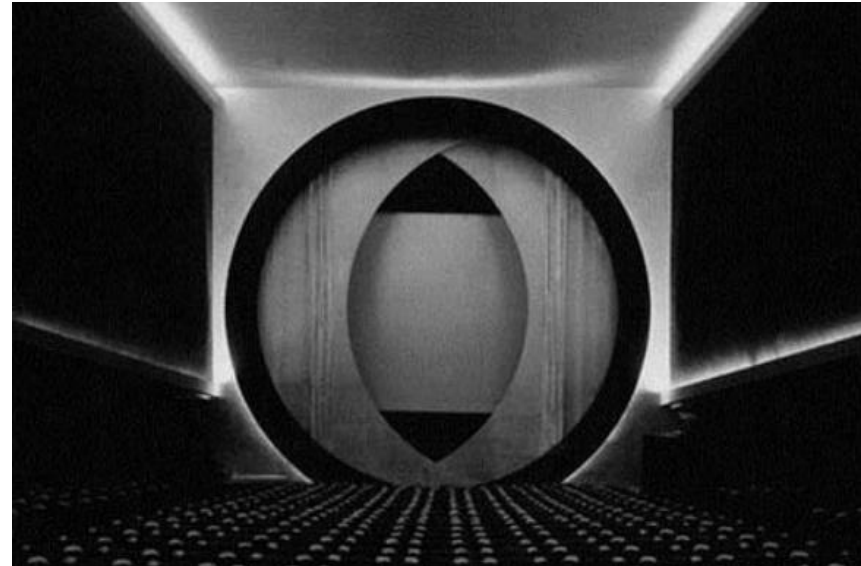


The Modernist Age

- Architecture of the Modernist Age
 - Frederick Kiesler (1890, Austria), the unbuilt architect



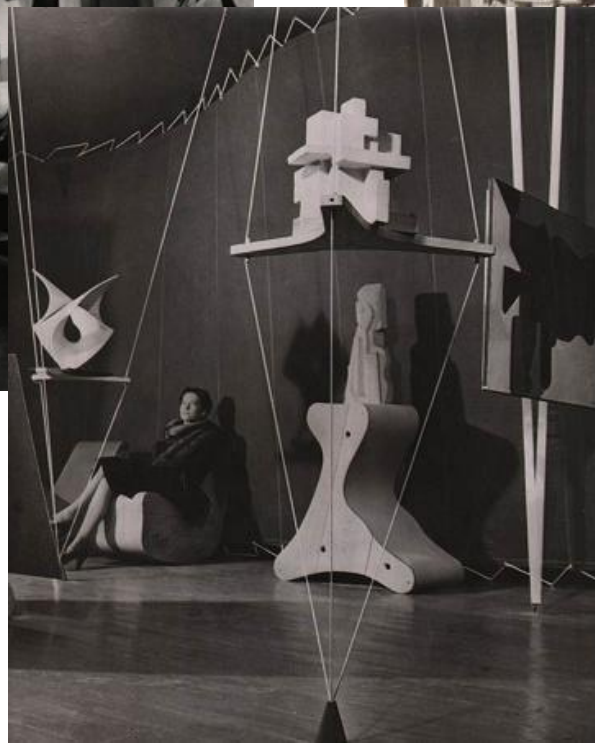
Theater stage for
Karel Čapek's "RUR", Berlin
(1923)



Film Guild Cinema, Screen-o-
Scope, New York (1929)

The Modernist Age

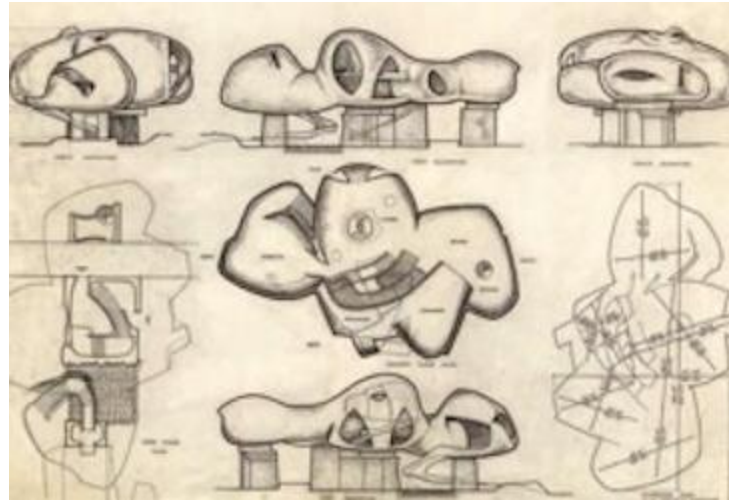
- Architecture of the Modernist Age
 - Frederick Kiesler



Peggy Guggenheim's "Art of This Century" (1942)

The Modernist Age

- Architecture of the Modernist Age
 - Frederick Kiesler (1890, Austria)



Model for Endless House (1959)



The Modernist Age

- Architecture of the Modernist Age
 - Frederick Kiesler (1890, Austria)



“The Shrine of the Book”
(1965)



The Modernist Age

- Architecture of the Modernist Age
 - Albert von Huffell: Church of the Sacred Heart, Brussels (1921 design)
 - Bragnar Ostberg: Stadshuset/ City Hall, Stockholm (1923)
 - Dominikus Boehm (1880): Frielingsdorf Church, Koeln, Germany (1927)

Brussels



Stockholm



Koeln



The Modernist Age

- Architecture of the Modernist Age
 - Rudolph Steiner (1861): Goetheanum II, Switzerland (1928)
 - Anibal Gonzalez (1876): Plaza de Espana, Sevilla (1929)
 - Marcello Piacentini (1881): Casa della Civiltà Italiana, EUR, Roma (1938-1942)



Goetheanum II



EUR

The Modernist Age

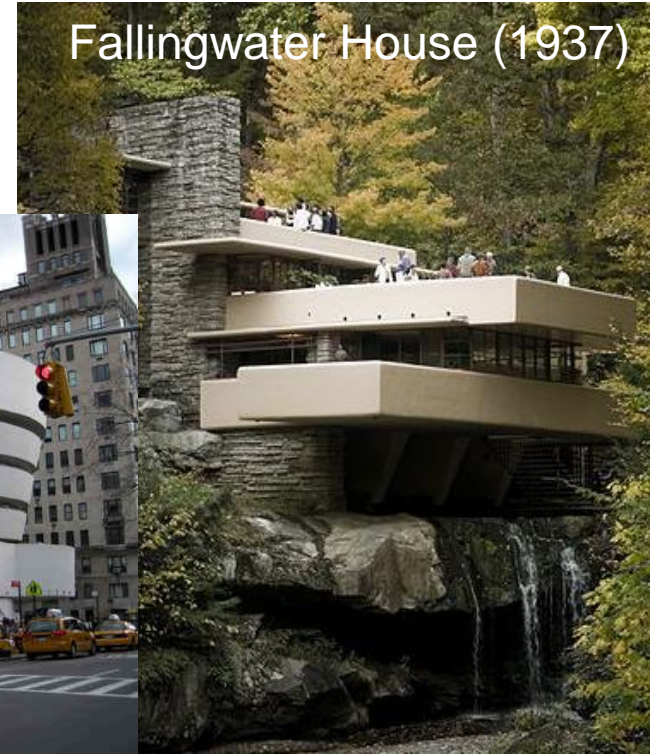
- Architecture
 - Frank Lloyd Wright (1867, USA):
 - Integrating architecture with nature
 - Rectilinear design vs curvilinear art nouveau
 - Emphasis in the interior instead of the façade
 - Asymmetry

Guggenheim Museum (1956)

Fallingwater House (1937)



Millard House (1923)

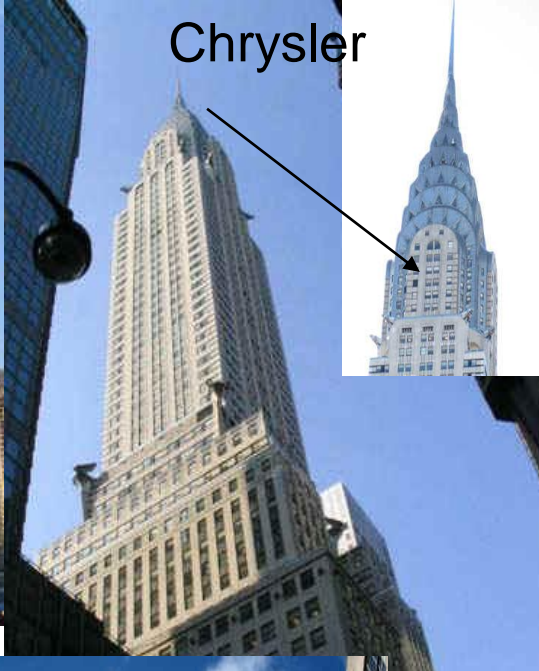


The Modernist Age

- Architecture of the Modernist Age
 - Adolf Loos (1870): Chicago Tribune tower (1922, canceled)
 - Graham, Anderson, Probst & White: Wrigley Building, Chicago (1925)
 - Ralph Walker: Barclay-Vesey Building, New York (1927)
 - William van Alen (1883): Chrysler Building, New York (1930)
 - Voorhees, Gmelin & Walker: Irving Trust Company Building, New York (1932)
 - Shreve, Lamb, and Harmon: Empire State Building, New York (1933)
 - Hood, Reinhard, Hofmeister, etc: Rockefeller Center, New York (1931-37)



Wrigley



Chrysler



Irving



Empire State Bldg



Barclay



Rockefeller



Loos

The Modernist Age

- Architecture of the Modernist Age
 - Yi-shun Wang: Lungshan Temple, Taipei (1924)
 - Edwin Lutyens (1869): Catholic Cathedral, Liverpool (1933, unfinished)



The Space Age

- Modernist Architecture after World War II
 - Richard Neutra: Kaufmann House (1946)
 - Luis Barragan: Casa Luis Barragan in Mexico City (1948)



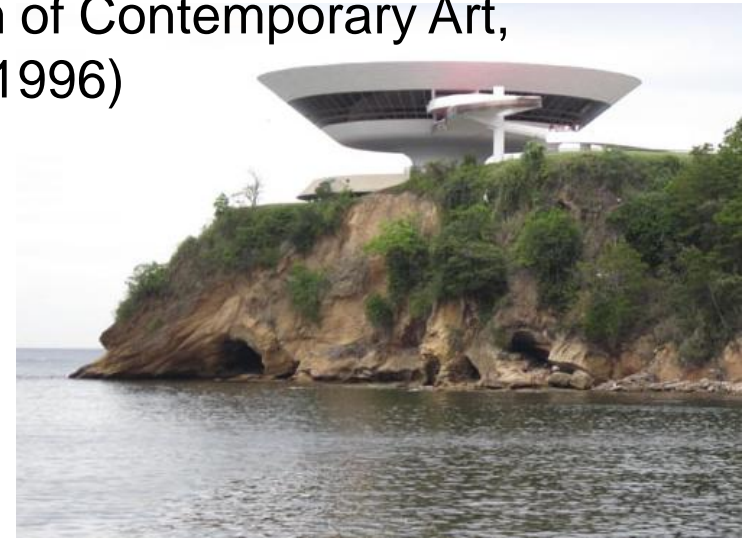
The Space Age

- Oscar Niemeyer (1907)

Chapel of Sao Francisco,
Pampulha (1943)



Museum of Contemporary Art,
Niteroi (1996)



Congress, Brasilia
(1958)



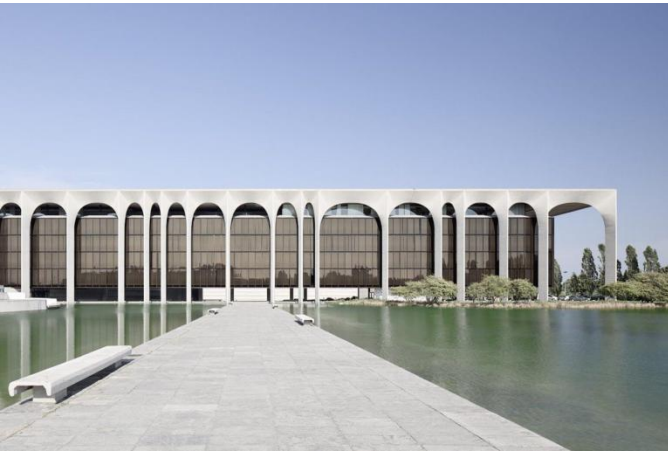
Cathedral, Brasilia (1970)



The Space Age

- Oscar Niemeyer (1907)

Mondadori Building, Milano (1975)



The Space Age

- Ludwig Mies van der Rohe (1886, Germany):
 - Farnsworth House (1951)
 - Seagram Building, New York (1954-57)



The Space Age

- Buckminster Fuller (1895):
 - Union Tank Car Dome, Baton Rouge, USA (1951)
 - Montreal Biosphere, Canada (1967)
 - Geodesic Dome for Expo '67, Montreal, Canada



The Space Age

- Kenzo Tange (1913)
 - Peace Pavilion, Hiroshima (1956)
 - Kagawa Prefectural Government Office Building in Takamatsu (1958)



The Space Age

- Kenzo Tange (1913)
 - National Gymnasium, Tokyo (1964)
 - Cathedral, Tokyo (1965)
 - City Hall, Tokyo (1991)
 - UOB1, Singapore (1992)



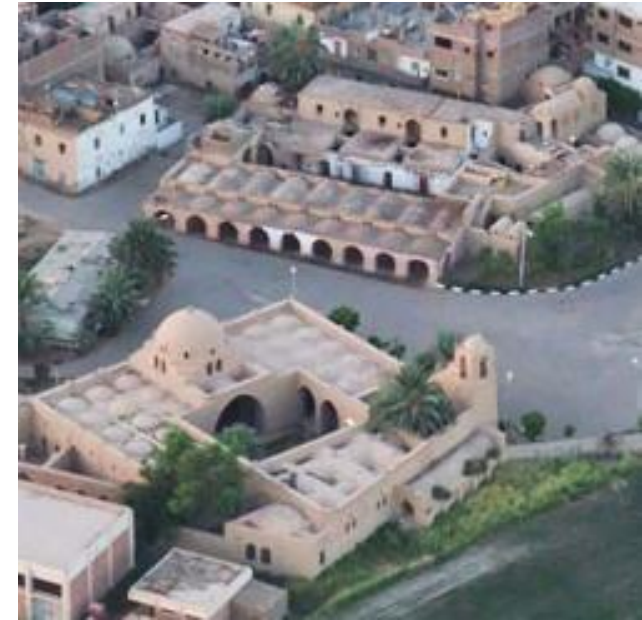
The Space Age

- Hispanic America
 - Juan O'Gorman: Mosaic, Biblioteca of the Universidad Nacional, Mexico City (1950)
 - Felix Candela (1910): Church of the Miraculous Virgin, Mexico City (1955)
 - Eladio Dieste (1917): Iglesia de Atlantida, Uruguay (1959)



The Space Age

- Arabic World
 - Hassan Fathy (1900): New Gournia Village in Luxor, Egypt (1952)



The Space Age

- Communist Europe
 - Lev Rudnev: Lomonosov University (1953, Moscow)
 - Lev Rudnev: Palace of (1955, Warsaw)

Moscow



Warszaw



The Space Age

- Communist Europe
 - A. Mordinow y V. Oltarzewsky: Hotel Ukraine (1955, Moscow)
 - Vladimir Helfreich: Ministry of Foreign Affairs, Moscow (1956)



The Space Age

- Pierluigi Nervi (1891)
 - Palazzo dello sport EUR, Rome (1956)
 - St Mary's Cathedral, San Francisco (1971)
 - Vatican Audience Hall, Roma (1971)



The Space Age

- Western Europe
 - Gio Ponti: Pirelli Building, Milano (1956)
 - Arne Jacobsen: Royal SAS Hotel, Copenhagen (1960)



The Space Age

- USA
 - Disneyland, Los Angeles (1955)
 - Gordon Bunshaft (1909): Lever House (1951)



The Space Age

- USA
 - Hugh Stubbins (1912)
 - Congress Hall, Berlin (1958)
 - Landmark Tower, Yokohama (1993)
 - Citicorp building, New York (1978)



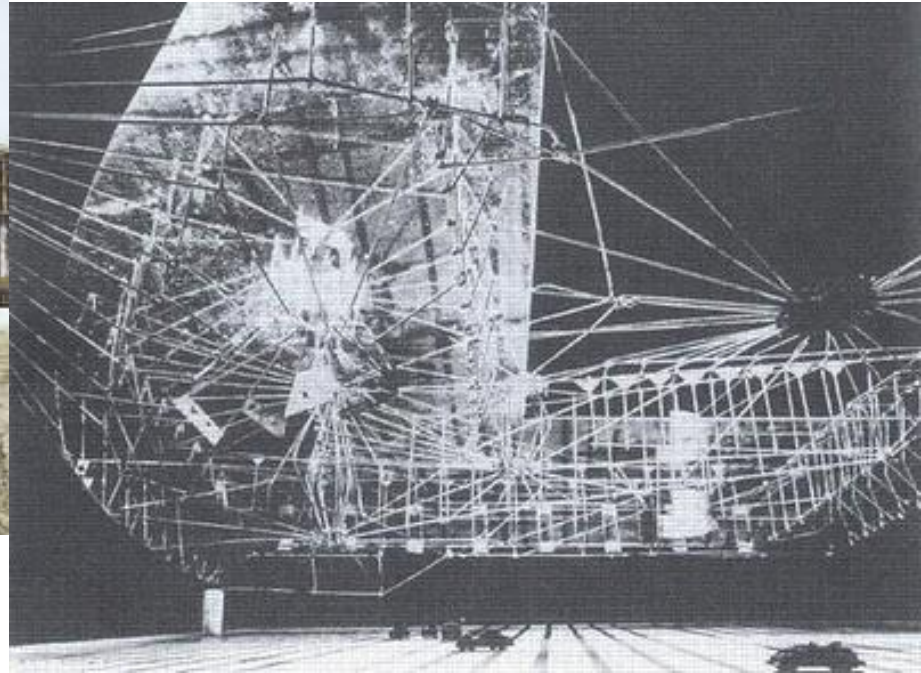
The Space Age

- USA
 - Louis Kahn (1901, USA):
 - Salk Institute, La Jolla, San Diego (1959)
 - National Assembly, Dhaka, Bangladesh (1974)
 - Phillips Exeter Academy Library



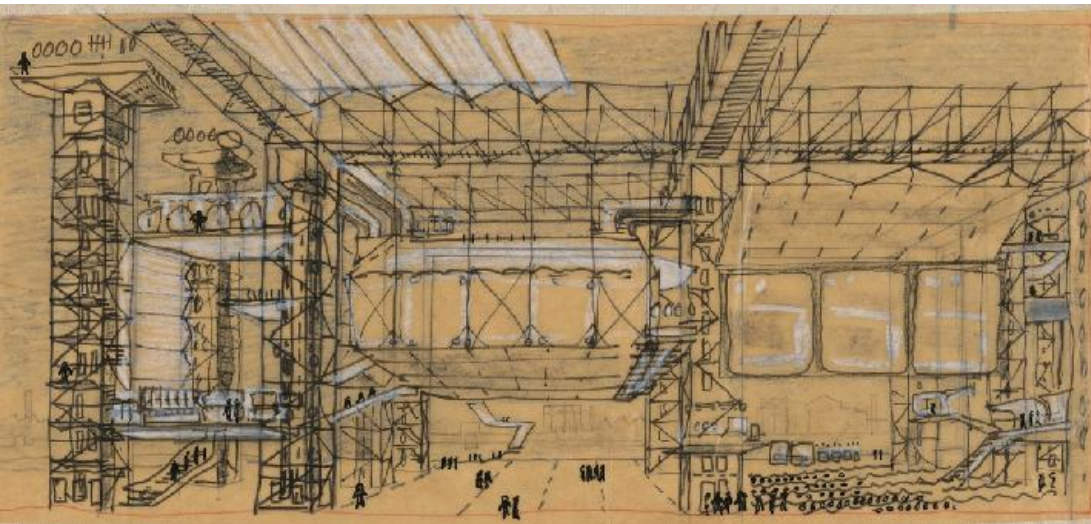
The Space Age

- Visionary Architecture
 - Constant Nieuwenhuys (1920, Holland)
 - “New Babylon” (1959): architectural models, collages, drawings and texts illustrating a utopian city

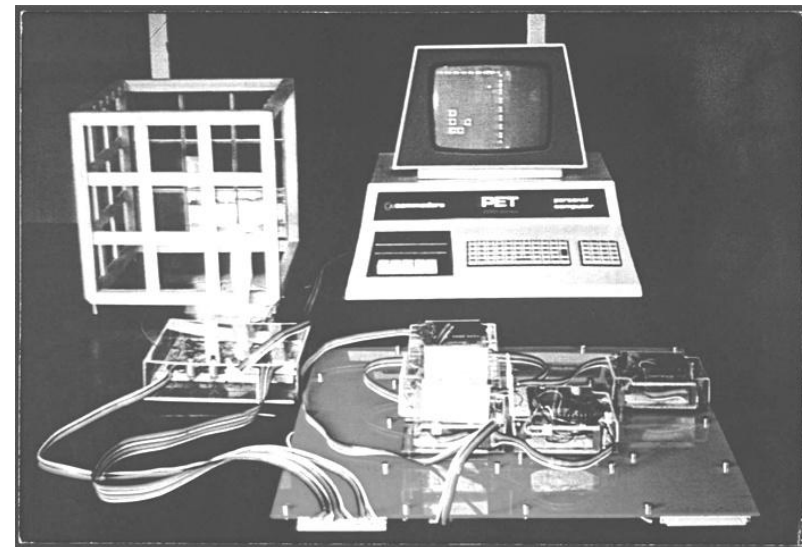


The Space Age

- Visionary Architecture
 - Cedric Price (1934, Britain): cybernetic architecture
 - "Fun Palace" (1961), an interactive environment that changes according to the user's desire - unbuilt
 - "Generator" (1980), an intelligent building that learns what its users want and reconfigures itself accordingly - unbuilt



"Fun Palace" (1961)



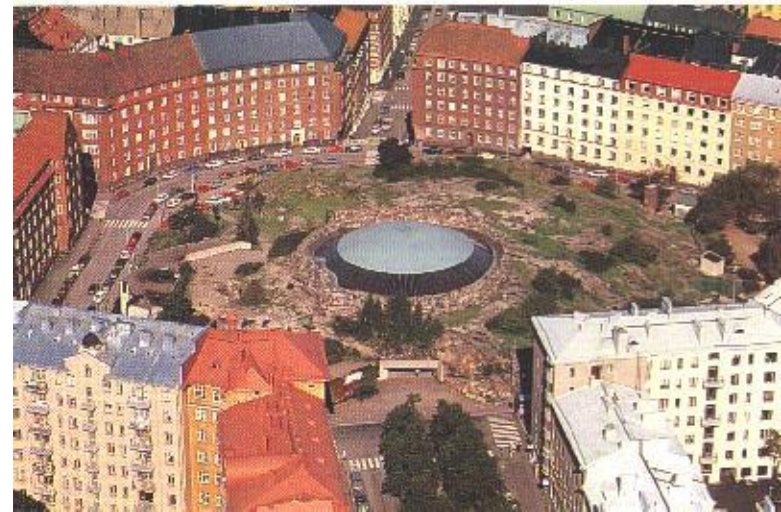
"Generator" (1980)

The Space Age

- Finnish school
 - Alvar Aalto (1898):
 - Finlandia Hall (1967)
 - Saynatsalo Townhall (1952)
 - Timo & Tuomo Suomalainen:
Temppeliauko Church, Helsinki (1969)



Temppeliauko



The Space Age

- Finnish school
 - Eero Saarinen (1910, Finland):
 - TWA terminal, New York (1962)
 - Gateway Arch, St Louis (1948-65)

TWA



The Space Age

- Sixties Modernism in the USA
 - Marcel Breuer: St John's Abbey, Minnesota (1963)
 - Emery Roth: Pan-Am building, New York (1963)
 - George Schipporeit (1933): Lake Point Tower, Chicago (1968)
 - Bruce Graham: John Hancock, Chicago (1969)



The Space Age

- Philip Johnson (1906)
 - Munson-Williams-Proctor Museum, Utica (1957)
 - Thanksgiving Square, Dallas (1977)
 - Crystal cathedral, Los Angeles (1980)
 - AT&T, New York (1984)
 - Lipstick Building, New York (1986)
 - Torres Puerta de Europa, Madrid (1996)

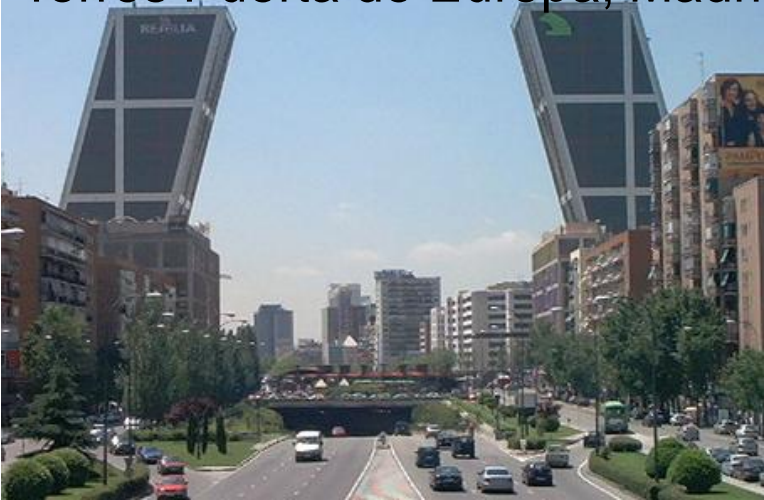
The Space Age

- Philip Johnson (1906)



Crystal cathedral,
Los Angeles
(1980)

Torres Puerta de Europa, Madrid (1996)



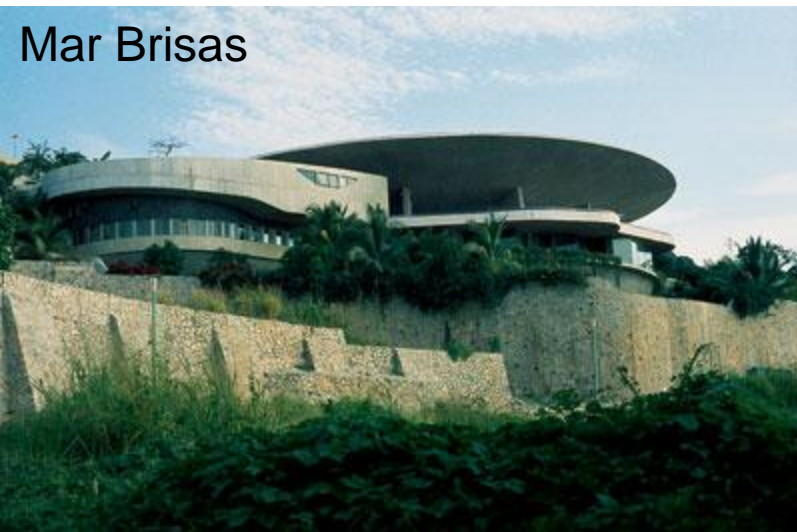
Lipstick Building,
New York (1986)

AT&T, New York (1984)



The Space Age

- John Lautner (USA, 1911)
 - Chemosphere House, L.A.(1960)
 - Garcia House, L.A.(1962)
 - Sheats-Goldstein House, L.A.(1963)
 - Mar Brisas House, Acapulco (1973)
 - Walstrom House, Santa Monica (1969)



The Space Age

- Sixties Modernism in Europe
 - Hans Scharoun: Philharmonie, Berlin (1963)
 - Josep Lluís Sert: Fondation Maeght, St-Paul-de-Vence (1964)
 - Frederick Gibberd (1968): Cathedral of Christ, Liverpool (1967)



The Space Age

- Paul Rudolph (1918, Britain):
 - Milam Residence (1961)
 - Concourse, Singapore (1994)
 - Lippo, Hong Kong (1987)



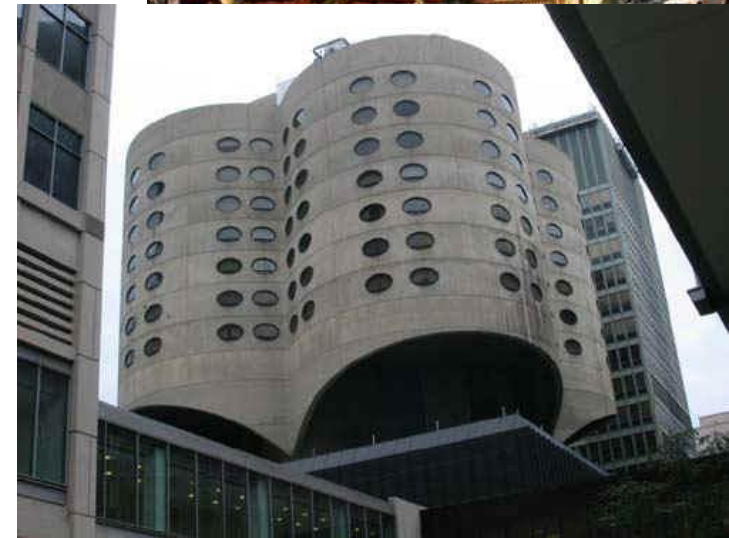
The Space Age

- New York's Lincoln Center
 - Pietro Belluschi: Alice Tully Hall in Juilliard School, New York (1966)
 - Wallace Harrison: Met Opera, New York (1966)



The Space Age

- Bertrand Goldberg (1913)
 - Marina City, Chicago (1964)
 - Prentice Women's Hospital, Chicago (1975)



The Space Age

- Moshe Safdie (1938, Israel)
 - Habitat Housing, Montreal (1967)
 - Marina Bay Sands, Singapore (2010)



The Space Age

- Ieoh Ming Pei (1917, China)
 - National Center for Atmospheric Research, Boulder (1967)
 - Library Tower, Los Angeles (1990)
 - Fountain Place, Dallas (1986)



The Space Age

- Ieoh Ming Pei (1917, China)
 - Bank of China, Hong Kong (1990)
 - City Hall, Dallas (1978)

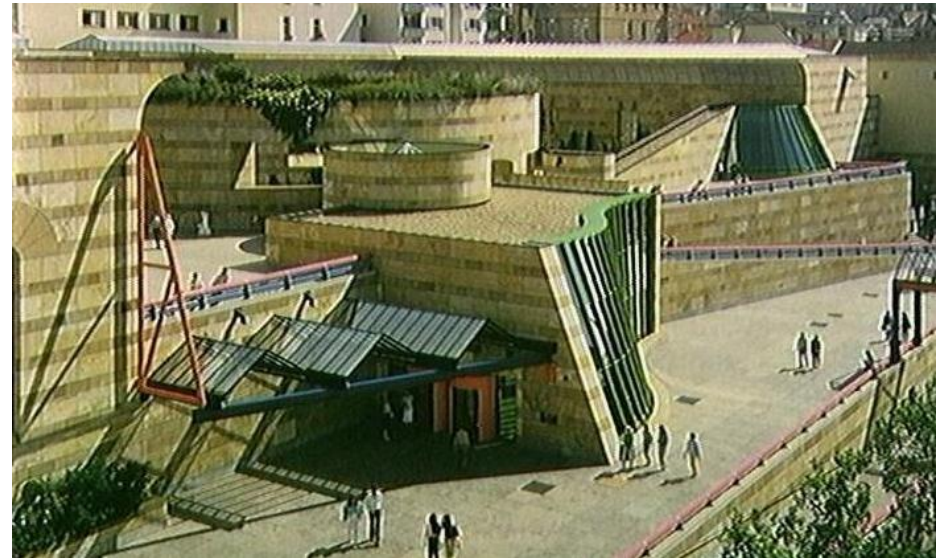


The Computer Age

- Robert Venturi's "Complexity and Contradiction in Architecture" (1966): manifesto of post-modernism
- Denise Scott Brown's "Learning from Las Vegas" (1972): emphasis on vernacular architecture
- Rem Koolhaas' "Delirious New York" (1978): urban pop culture

The Computer Age

- European visionaries
 - Paolo Soleri: Arcosanti, Arizona (1972)
 - James Stirling: Staatsgalerie, Stuttgart (1977)



The Computer Age

- Kisho Kurokawa (1934, Japan)
 - Nakagin Capsule Tower (1972, Tokyo)



The Computer Age

- Kisho Kurokawa (1934, Japan)
 - Sony Tower, Osaka (1976)
 - Republic Plaza (1995, Singapore)
 - National Art Center, Tokyo (2005)



The Computer Age

- Jorn Utzon (1918, Denmark)
 - Sydney Opera House (1972)
 - Bagsvaerd Church (1976)



The Computer Age

- Skyscrapers
 - Bruce Graham: Sears Towers, Chicago (1974)
 - Minoru Yamasaki: World Trade Center New York (1973)
 - Edward Durell Stone: AON Building (1972)



The Computer Age

- Cesar Pelli (1926, Argentina):
 - Pacific Design Center ("Blue Whale"), Los Angeles (1975)
 - Bank of America, Charlotte (1992)
 - Sea Hawk Hotel, Fukuoka, Japan (1995)
 - Petronas Towers, Kuala Lumpur, Malaysia (1998)
 - Two International Finance Centre (2003, Hong Kong)
 - Canary Wharf Tower, London (1991)

see next page...



The Computer Age

- Richard Rogers (1933)
 - Centre Pompidou, Paris (1972-76)
 - Lloyds Building, London (1986)
 - Leadenhall Tower, London (2014)
 - Millenium Dome, London (1999)



The Computer Age

- Architecture

- Renzo Piano (1937)

- Centre Pompidou, Paris (1977)
 - DeMenil Collection (1986)
 - California Academy of Science, San Francisco (1986)
 - New York Times Headquarters
 - Cultural Center Tjibaou, New Caledonia (1998)



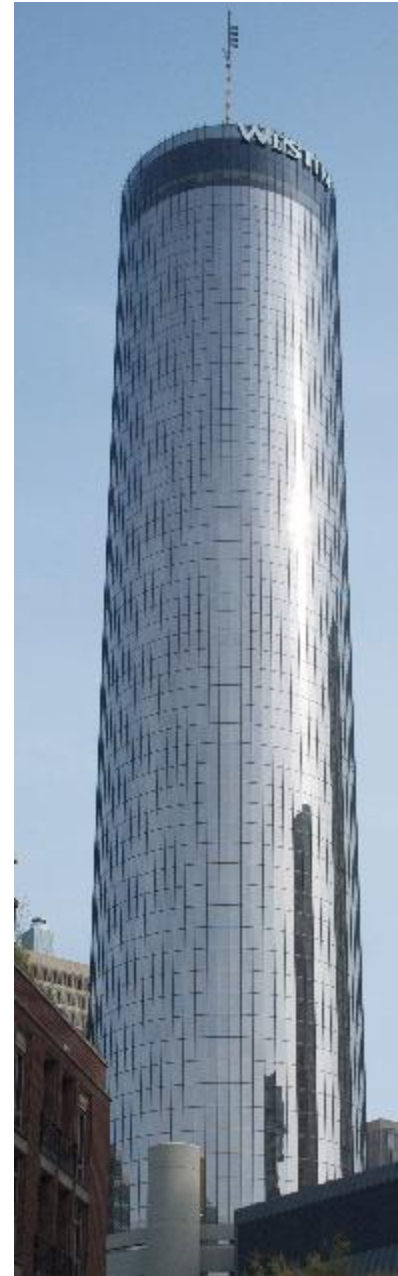
The Computer Age

- Modernist Architecture in the Seventies in the USA
 - William Pereira (1909)
 - Transamerica Pyramid, San Francisco (1972)
 - Geisel Library, San Diego (1970)



The Computer Age

- John Portman (1924)
 - Hyatt Regency, San Francisco (1974)
 - Peachtree Plaza Hotel, Atlanta (1976)



The Computer Age

- John Portman (1924)
 - Embarcadero Center, San Francisco (1983)
 - Bonaventure Hotel, Los Angeles (1976)
 - Tomorrow Square, Shanghai (2003)



The Computer Age

- Harry Weese (1915)
 - Metropolitan Detention Center, Chicago (1975)
 - 200 South Wacker Drive, Chicago (1981)



The Computer Age

- Modernist Architecture in the Seventies in Europe
 - Eugene Baudoin, Urbain Cassan, Louis de Hoyn de Marien, Jean Saubat: Tour Montparnasse, Paris (1973)
 - Frei Otto: Multihalle in Mannheim (1975) - parametricism



The Computer Age

- Norman Foster (1935, Britain):
 - Willis Faber Dumas, Ipswich (1974)
 - Hong Kong Shanghai Banking (1985)
 - Swiss Re, London (2003)
 - Al Faisaliah Center, Riyadh, Saudi Arabia (2000)



The Computer Age

- Norman Foster (1935, Britain):
 - Commerzbank, Frankfurt (1997)
 - Hearst Tower, New York, USA (2008)



The Computer Age

- Eastern Europe
 - Georgy Chakhava: Roads Ministry building, Tbilisi, Georgia (1975)
 - Janko Konstantinov: Central Post Office, Skopje, Macedonia (1974)



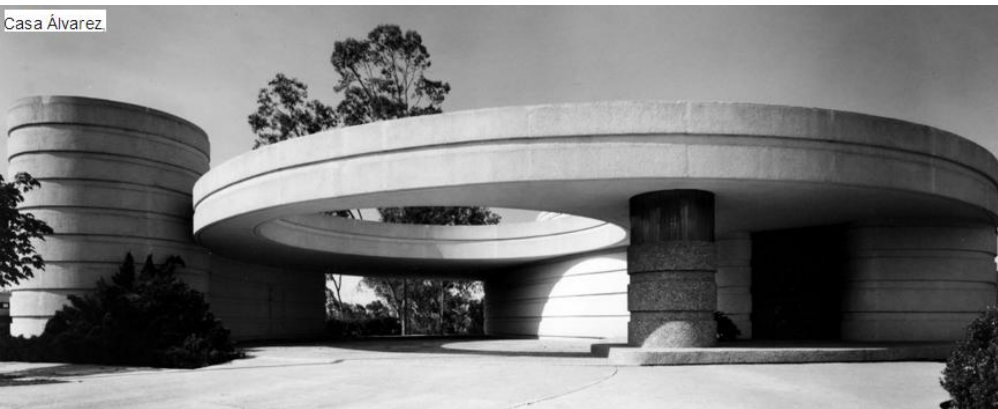
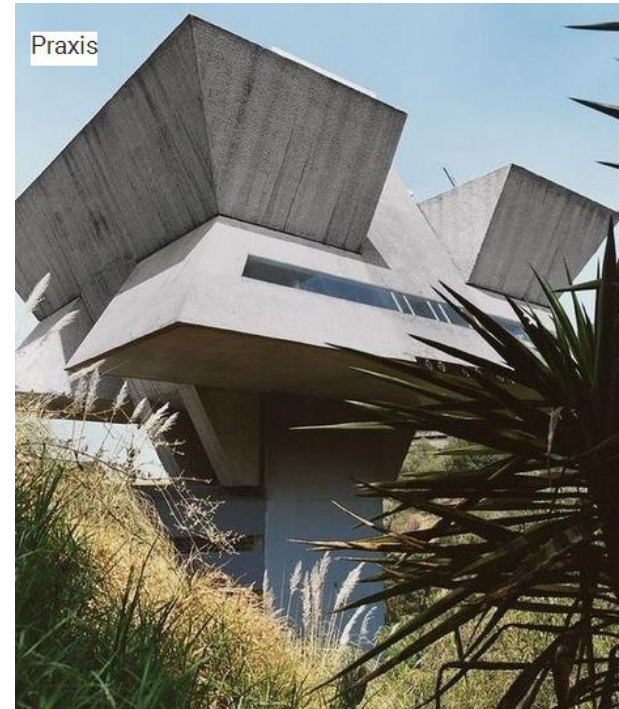
The Computer Age

- Latin America
 - Rogelio Salmona: Torres del Parque, Bogota (1970)
 - Ricardo Legorreta: Camino Real Hotel, Cancun (1975)



The Computer Age

- Agustin Hernandez-Navarro (1924)
 - Praxis, Mexico City (1975)
 - Casa Alvarez, Mexico City (1976)
 - Folkloric Ballet School, Mexico City (1968)
 - House in the Air, Mexico City (1991)
 - Calakmul (1994, Mexico City)



Casa en el Aire



The Computer Age

- Brazil
 - Edgar de Fonseca: Catedral Metropolitana, Rio de Janeiro (1979)
 - Jose Augusto Bellucci: Cathedral de Nossa Senhora da Gloria, Maringa, Brazil (1972)
 - Roberto Luis Gandolfi: Petrobras, Rio de Janeiro (1972)



The Computer Age

- Modernist Architecture in the Seventies in Asia
 - Yoshikazu Uchida: Sompō Building, Tokyo (1976)



The Computer Age

- Arata Isozaki (1931):
 - Kitakyushu Municipal Museum of Art, Fukuoka (1974)
 - Museum of Contemporary Art , Los Angeles (1986)
 - Team Disney Building in Orlando, Florida (1990)
 - Manggha Museum, Krakow, Poland (1994)
 - Centennial Hall, Nara (1998)
 - Concert Hall, Harbin, China (2014)



Harbin



Team Disney



Nara



MOCA



1980s

The Computer Age

- Modernist Architecture in the 1980s in the USA
 - Helmut Jahn: Xerox Center, Chicago (1980)
 - Epstein: Associates Center, Chicago (1983)
 - John Burgee: AT&T/ Sony, New York (1984)
 - Murphy & Jahn: Liberty Place, Philadelphia (1986)
 - Murphy & Jahn: Messeturm, Frankfurt (1990)



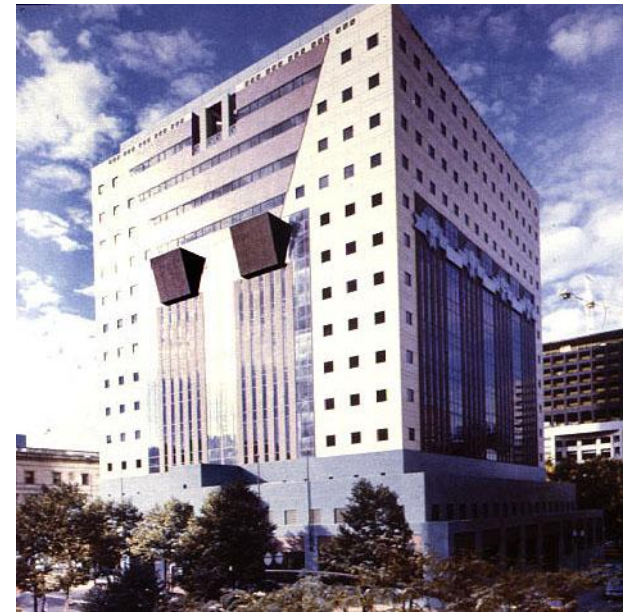
The Computer Age

- Skidmore, Owings & Merrill
 - Gateway IV, Chicago (1983)
 - DLI63/Korea Life Insurance, Seoul (1985)
 - China World Trade Center Tower 3 (2009, Beijing)
 - Freedom Tower, New York (2014)



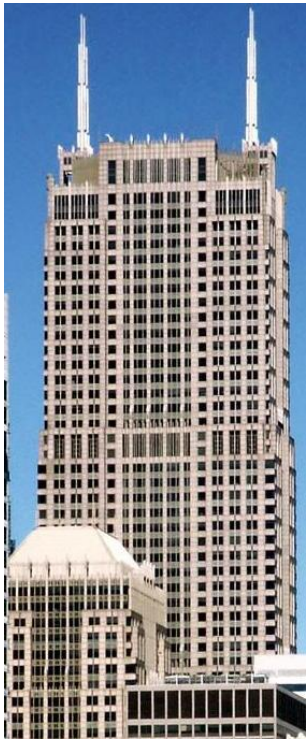
The Computer Age

- Michael Graves (1934)
 - Public Services Building, Portland (1980)
 - Humana Building, Louisville (1985)



The Age of Globalization

- Adrian Smith (USA, 1944)
 - AT&T Corporate Center, Chicago (1989)
 - Burj Dubai (2008, Dubai)
 - Jin Mao Building, Shanghai (1998)
 - Masdar Headquarters, Abu Dhabi (202?)



The Computer Age

- Western Europe
 - Gae Aulenti: interior of Musee d'Orsay, Paris (1987)



The Computer Age

- Jean Nouvel (1941, France)
 - Institute of the Arab World (1987, Paris)
 - Angbar Tower (2005, Barcelona)



The Computer Age

- Ricardo Bofill (1939, Spain)
 - Taller de Arquitectura, St-Quentin-en-Yvelines, Paris (1981)
 - Espaces de Abraxas, Marne-la-Vallee (1993)



The Computer Age

- Terry Farrell (1938, Britain):
 - Tv-am building, Camden Town, London (1983)
 - SIS Building, Vauxhall Cross, London (1992)



The Computer Age

- Eastern Europe
 - Igor Vasilevsky: Druzhba Sanitarium, Yalta, Ukraine (1986)
 - Anca Petrescu: Casa Poporului, Bucharest, Romania (1989)



The Computer Age

- Asia
 - Yang Cho-cheng: Chiang Kai-shek Memorial Hall, Taiwan (1980)
 - Kazuo Shinohara: Tokyo Institute of Technology's Centennial Hall (1987)



The Computer Age

- Tadao Ando (1941)
 - Church on the Water, Tomamu-Hokkaido (1988)
 - Church of the Light, Osaka (1989)



The Computer Age

- Asia
 - Balkrishna Doshi: Indian Institute of Management in Bangalore, India (1983)
 - Gordon Bunshaft: National Commercial Bank, Jeddah, Saudi Arabia (1984)



The Computer Age

- Hijas Kasturi (1936, Singapore)
 - Tabung Haji (1984, Kuala Lumpur)
 - Menara Telekom (2000, Kuala Lumpur)



The Age of Globalization

The Age of Globalization

- USA
 - Stephen Wright: Two Prudential Plaza, Chicago (1990)



The Age of Globalization

- Kohn Pedersen Fox
 - 311 South Wacker Drive, Chicago (1990)
 - Mori/Roppongi Building, Tokyo (2003)
 - World Financial Center, Shanghai (2006)
 - Union Square Phase 7/ International Commerce Centre, Hong Kong (2010)



The Age of Globalization

- Richard Meier (1934, USA):
 - Getty Center, Los Angeles (1997)
 - Museu d'Arte Contemporani, Barcelona (1995)



The Age of Globalization

- Frank Gehry (1929):
 - Guggenheim Museum, Bilbao (1997)
 - Walt Disney Concert Hall, Los Angeles (2005)
 - Hotel Marques de Riscal, Elciego, Spain
 - IAC (2007)
 - Jay Pritzker Pavilion, Chicago (2004)
 - Guggenheim Museum, Abu Dhabi (200?)

see next page...



The Age of Globalization

- Europe
 - Johann Otto von Spreckelsen: La Grande Arche, Paris (1990)
 - Imre Makovecz: Church of the Holy Spirit, Paks, Hungary (1992)
 - Alvaro Siza-Vieira: Igreja de Marco de Canaveses, Portugal (1996)



The Age of Globalization

- Europe
 - Dominique Perrault: Bibliotheque de France (Paris, 1997)
 - Mario Botta: SFMOMA, San Francisco (1995)



The Age of Globalization

- Santiago Calatrava (1951, Spain)
 - Satolas TGV Station, Lyons (1993)
 - Sundial bridge, Redding, USA (2004)
 - Turning Torso, Malmo, Sweden (2005)
 - City of Arts and Sciences, Valencia (2006)



The Age of Globalization

- Santiago Calatrava (1951, Spain)
 - City of Arts and Sciences, Valencia (2006)



The Age of Globalization

- Latin America
 - Teodoro Gonzalez de Leon, Francisco Serrano and Alejandro Fierro: Arcos Bosques , Mexico City (1997)



The Age of Globalization

- Rafael Vinoly (1944, Uruguay):
 - Jongno Tower, Seoul (1999)
 - International Forum, Tokyo (1996)



The Age of Globalization

- Hiroshi Hara (1936, Japan)
 - Umeda Sky, Osaka (1993)
 - Kyoto Station (1997)



The Age of Globalization

- Nikken Sekkei (Japan)
 - Chamber of Commerce, Dubai (1995)
 - NEC Supertower, Tokyo (1990)



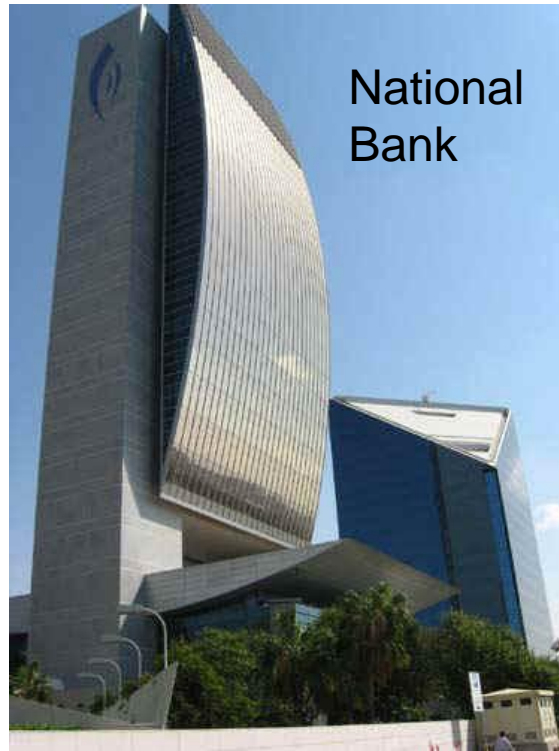
The Age of Globalization

- Dennis Lau (1941, China)
 - Central Plaza, Hong Kong (1992)
 - Citic Plaza, Guangzhou (1997)



The Age of Globalization

- Middle East
 - Leo Daly architects: Jumeirah Beach hotel (1997, Dubai)
 - Carlos Ott (1946): National Bank, Dubai (1998)
 - Tom Wright (1957, Britain): Burj Al Arab, Dubai (1999)



The Age of Globalization

- Asia
 - Ken Yeang and T.R. Hamzah: Menara Mesiniaga, Kuala Lumpur (1992)



The Age of Globalization

- Asia
 - Chalermpchai Kositpipat (1955, Thailand)



"Wat Rong Khun/ White temple", Chiang Rai (1997)

The Age of Globalization

- Parametricism (term coined by Patrik Schumacher, 2008)
 - Computational architecture
 - Pioneered by Frei Otto's Multihalle in Mannheim (1975)
 - Kas Oosterhuis (1951, Holland): solo exhibition "Synthetic Architecture" (1990)
 - John Frazer's book "An Evolutionary Architecture" (1995)

The Age of Globalization

- Parametricism
 - Lars Spuybroek (1959, Holland): Neeltje Jans water pavilion (1997)
 - Greg Lynn (1964, USA): Korean Presbyterian Church in Queens, New York (1999)



2000s

The Age of Globalization

- USA
 - Rafael Moneo: Cathedral, Los Angeles (2002)
 - James Polshek: Clinton Library, Little Rock (2004)
 - Madeline Gins & Shusaku Arakawa: Bioscleave House - Lifespan Extending Villa (2008)



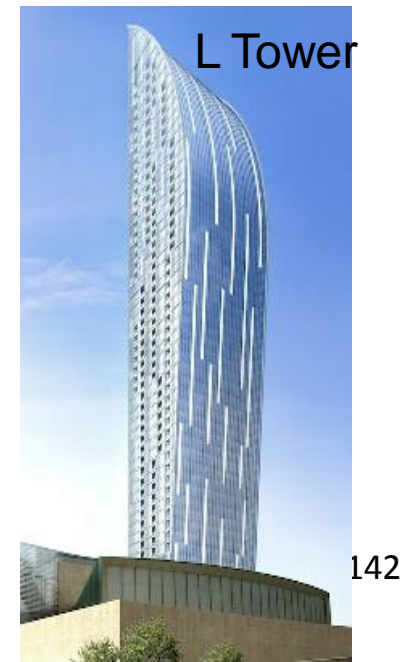
The Age of Globalization

- USA
 - Steven Holl and Robert Silman: 5th Avenue and 42nd Street Tower, New York (2002)
 - Jeanne Gang (1964, USA): Aqua Building, Chicago (2009)



The Age of Globalization

- Daniel Libeskind (1946)
 - Royal Ontario Museum, Ontario (2006)
 - Denver Art Museum (2006)
 - Reflection Towers, Singapore (2012)
 - Creative Media Centre, City University of Hong Kong (2010)
 - L Tower, Toronto (202x)



The Age of Globalization

Daniel Libeskind (1946)

Denver



Creative Media Centre



Reflection Towers



The Age of Globalization

- Latin America
 - Bruno de Franco: Suite Volland, Curitiba, Brazil (2001), a spinning building
 - Giancarlo Mazzanti: Parque Biblioteca Espana, Medellin, Colombia (2007)



The Age of Globalization

- Europe
 - Jan Kaplicky (1937): National Library, Prague (2007, unbuilt)
 - Peter Cook and Colin Fournier: Kunsthaus Graz, Austria (2002)
 - Henning Larsen: Opera House (Copenhagen, 2005)



The Age of Globalization

- Europe
 - Ben Van Berkel (1957): Mercedes-Benz Museum, Stuttgart (2006)
 - Snohetta: Opera House (Oslo, Norway, 2008)
 - Jakob + MacFarlane: Cite de la Mode, Paris (2008)



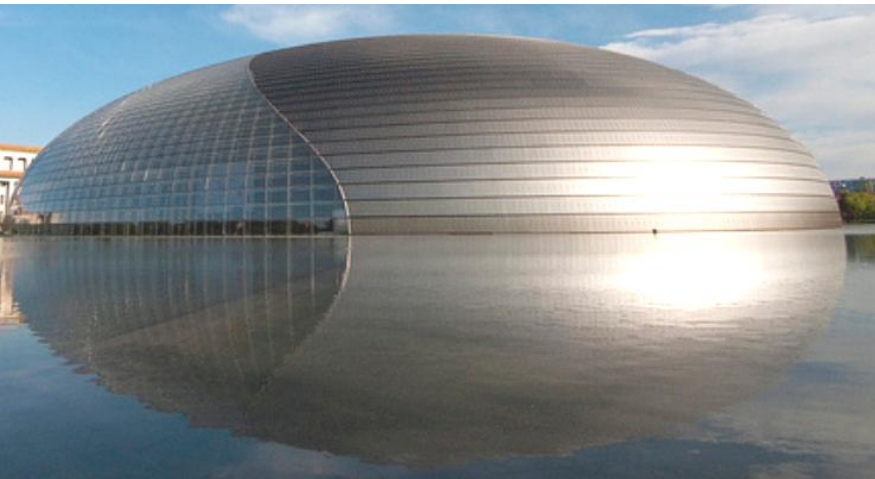
The Age of Globalization

- Asia
 - Kotaro Ide (1965): Shell House, Kitasaku, Nagano (2008)
 - Arc Studio: Pinnacles, Singapore (2009)



The Age of Globalization

- China
 - Chu-yuan Lee: Taipei 101 (2004)
 - Paul Andreu: National Center for the Performing Arts, Beijing (2008)
 - Rem Koolhaas and Ole Scheeren: China Central Television, Beijing (2009)



The Age of Globalization

- Middle East
 - Hazel Wong: Emirates Towers , Dubai (2000)
 - Ellerde Becket: Kingdom Centre (2001, Saudi Arabia)



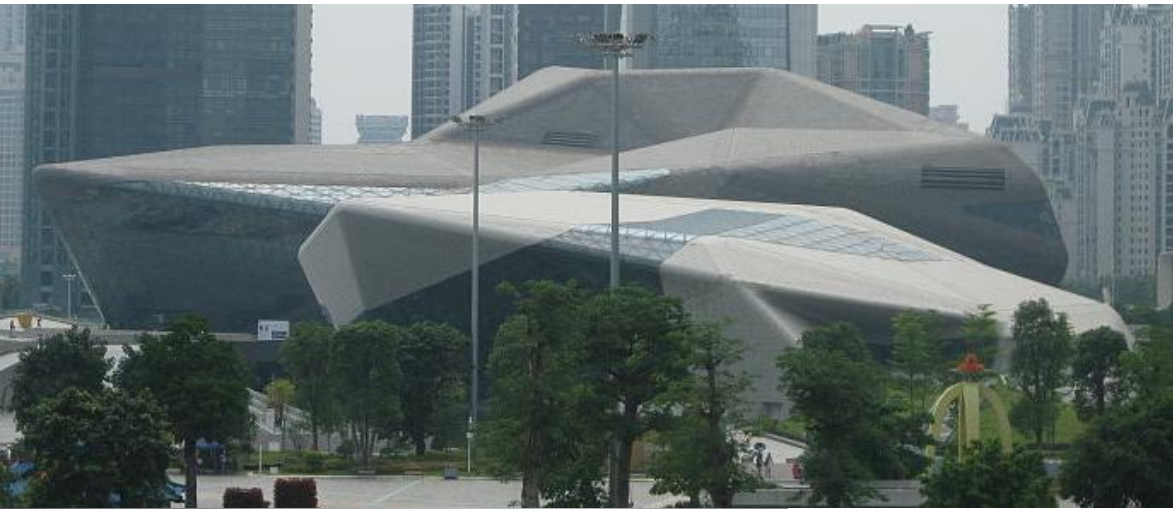
The Age of Globalization

- Zaha Hadid (Iraq, 1950)
 - Phaeno Science Center (Wolfsburg, Germany, 2005)
 - Herault Culture Sport (Montpellier, France, in progress)
 - Museum of Transport (Glasgow, Britain, in progress)
 - CMA CGM Head Office (Marseilles, France, in progress)
 - Fiera di Milano (Milano, Italy, in progress)
 - Architecture Foundation, Southwark Street and Great Guildford Street (London, Britain, in progress)
 - Guangzhou: Opera House (2011)

The Age of Globalization

- Zaha Hadid (Iraq, 1950)

Herauld Culture Sport (Montpellier)
CMA CGM Head Office (Marseilles)
Guangzhou Opera House (2011)



2010s

The Age of Globalization

- Europe
 - Hamiltons Architects: Strata SE1, London (2010)
 - Hans Hollein & Josef Janda: Monte Laa Towers, Vienna (2013)



The Age of Globalization

- Architecture
 - Yansong Ma (1975): Absolute Towers (Ontario, 2011)



The Computer Age

- Vincent Callebaut: “Lilypad” (2011)



“Lilypad” (2011)

The Age of Globalization

- Architecture
 - David Fisher (1949): Dynamic Tower, Dubai (?)



This is a companion piero scaruffi's "A Visual History of the Visual Arts": <http://www.scaruffi.com/art/history>