



Denise Scott Brown  
*Las Vegas, NV*  
1966

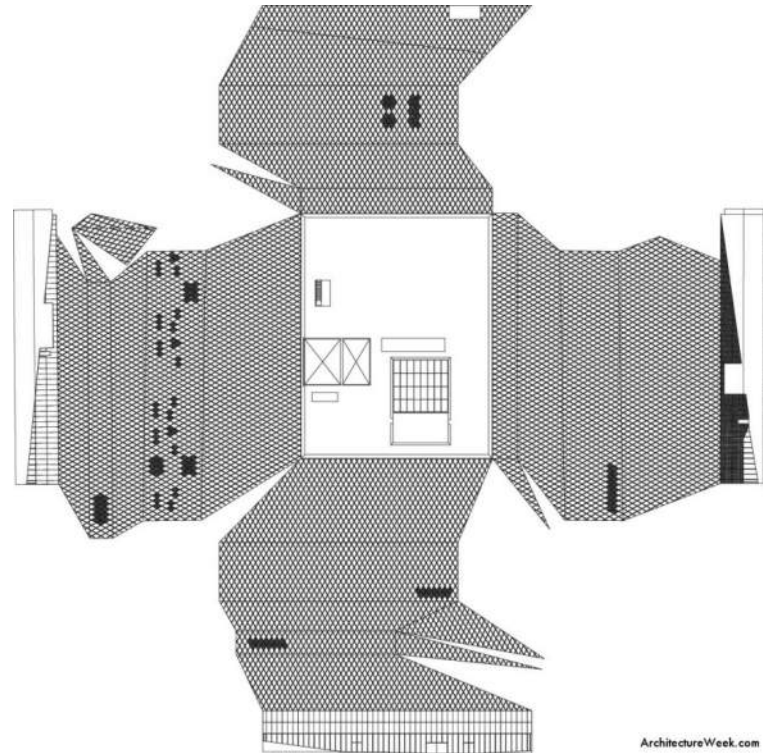
Flat-ish.

*Photographic perception  
and the built environment*

Buildings are manifold.



Drawings tend to be flat.



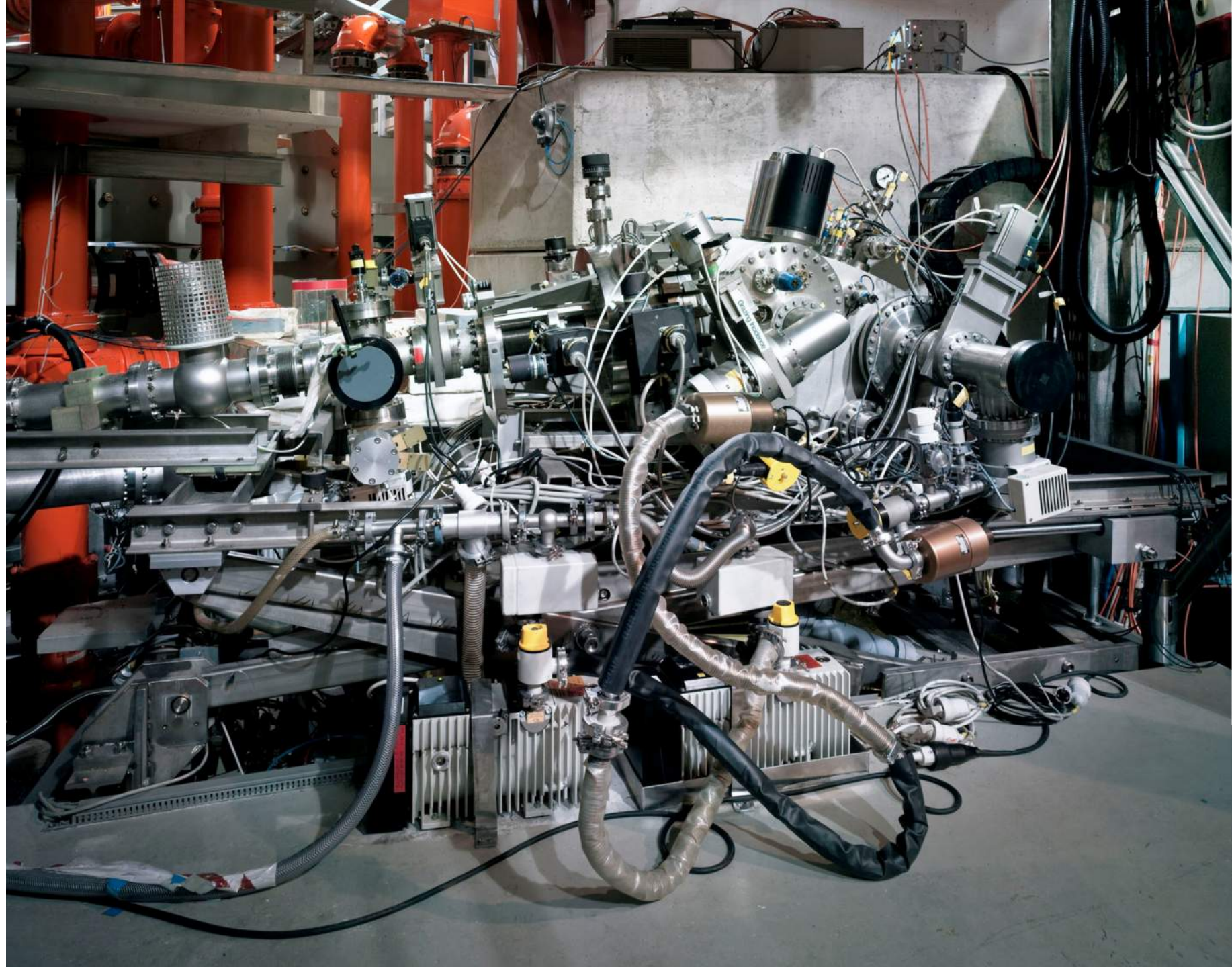
Photos alternately resemble the manifold, the flat,  
or even a composite of both ... *they are multi-stable.*



Luigi Ghirri  
*Rimini,*  
1977  
from the series 'In Scala' (In Scale)

*How is Photographic Perception  
like Quantum Mechanics?*





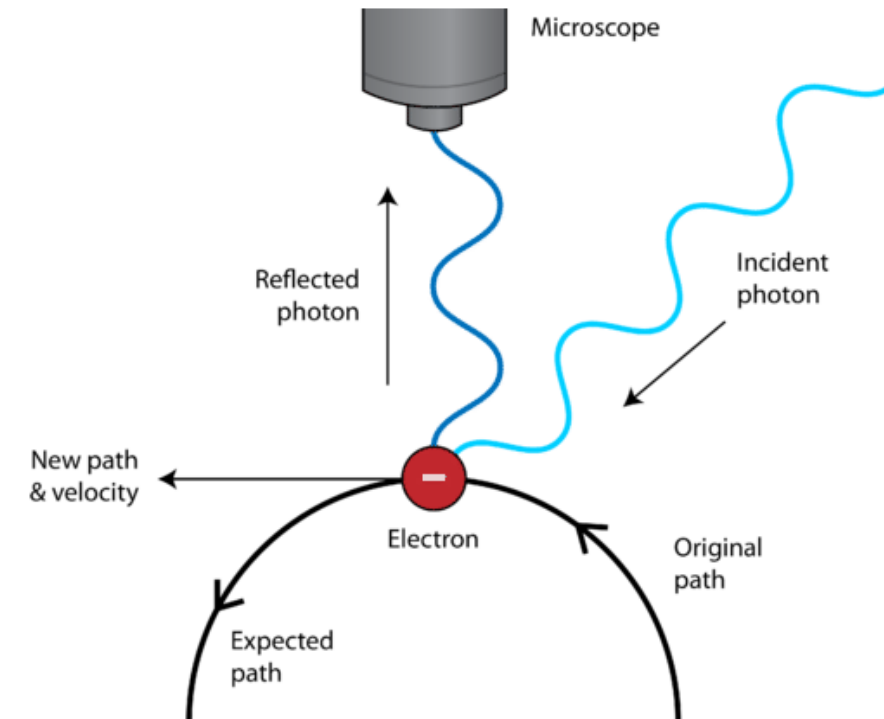
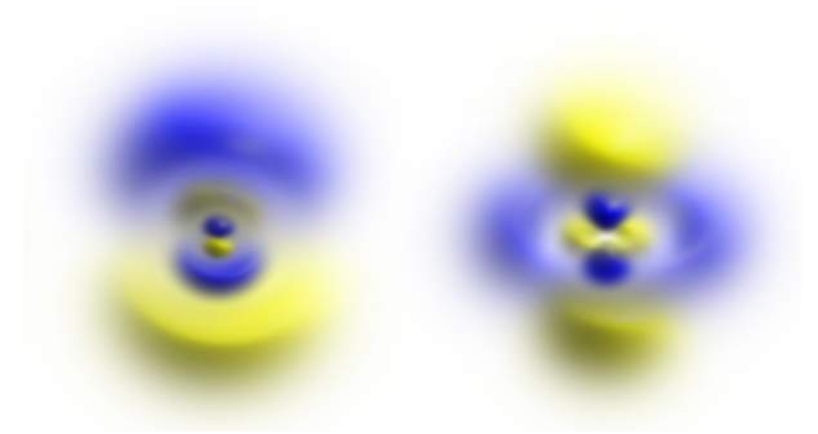
Thomas Struth  
*Grazing-Incidence-Spectrometer,*  
*Max Planck IPP, Garching, Germany,*  
2010

## Quantum multi-stability:

Subatomic particles are infinite places at once within a 3D standing wave.

(“*wave-particle duality*”)

... a discrete particle appears only when its *trace* is *observed* photographically.



... confounding!

# EINSTEIN ATTACKS QUANTUM THEORY

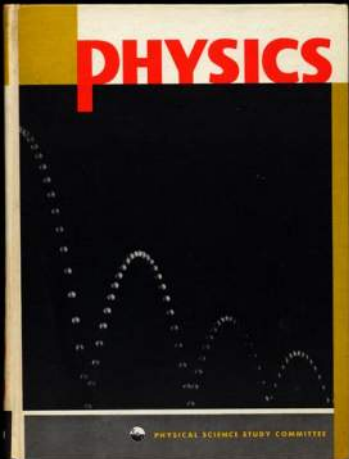
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Scientist and Two Colleagues  
Find It Is Not 'Complete'  
Even Though 'Correct.'



Berenice Abbott

*1-dimensional standing waves through string*  
(analogous to quantum energy level ' $n$ ')  
1958 - 1961



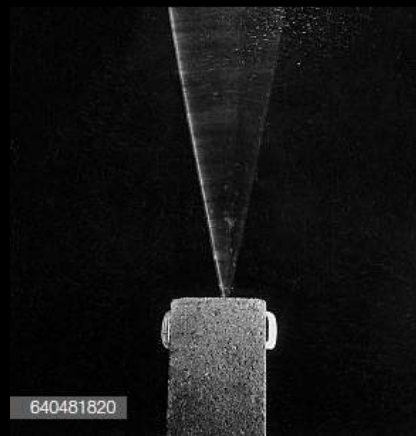
$n = 1$



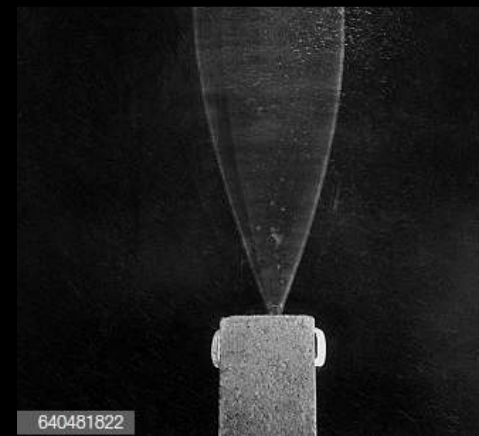
$n = 2$



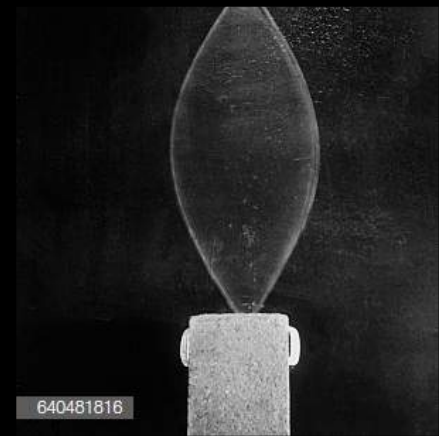
$n = 3$



640481820



640481822



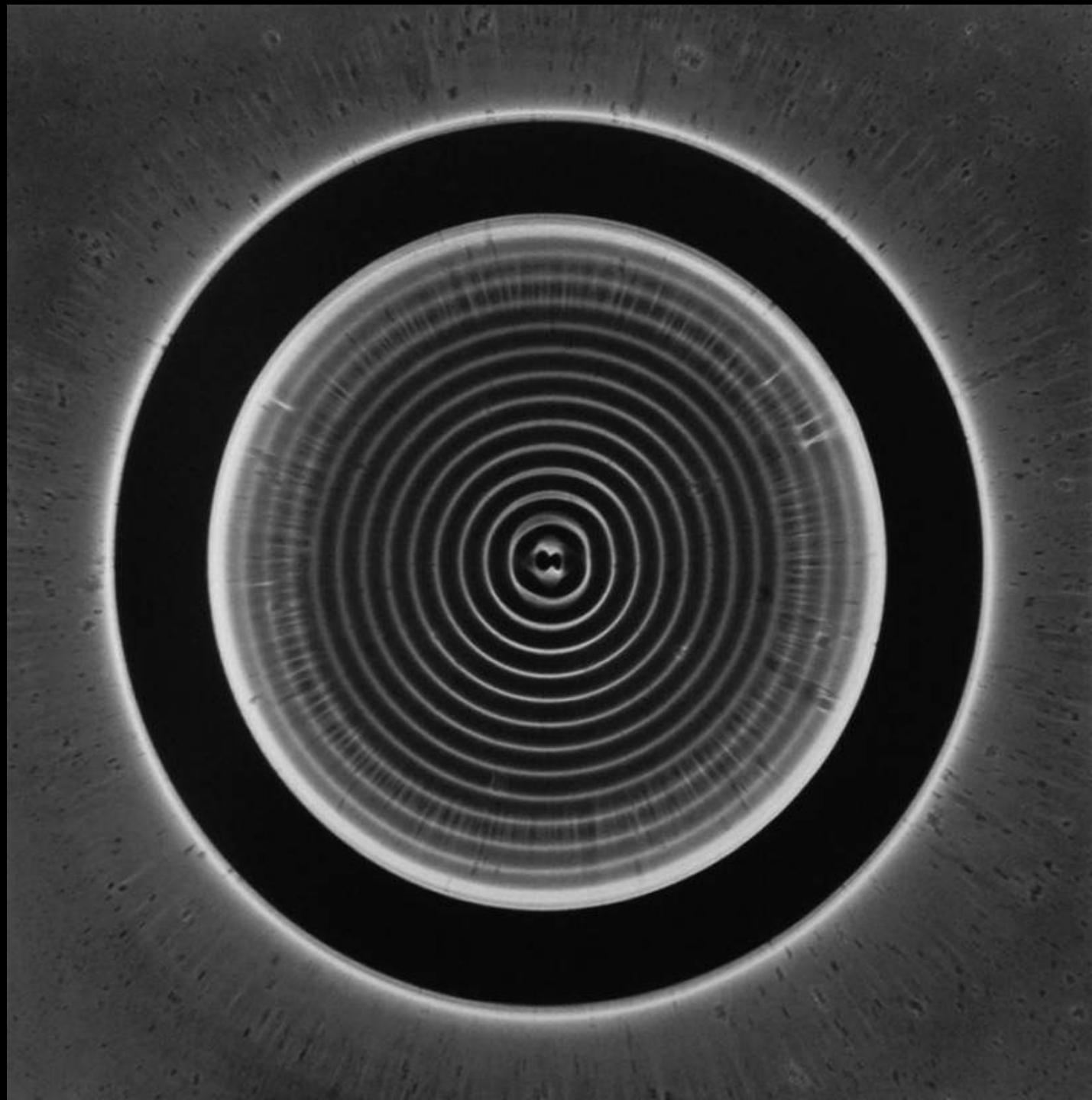
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Berenice Abbott

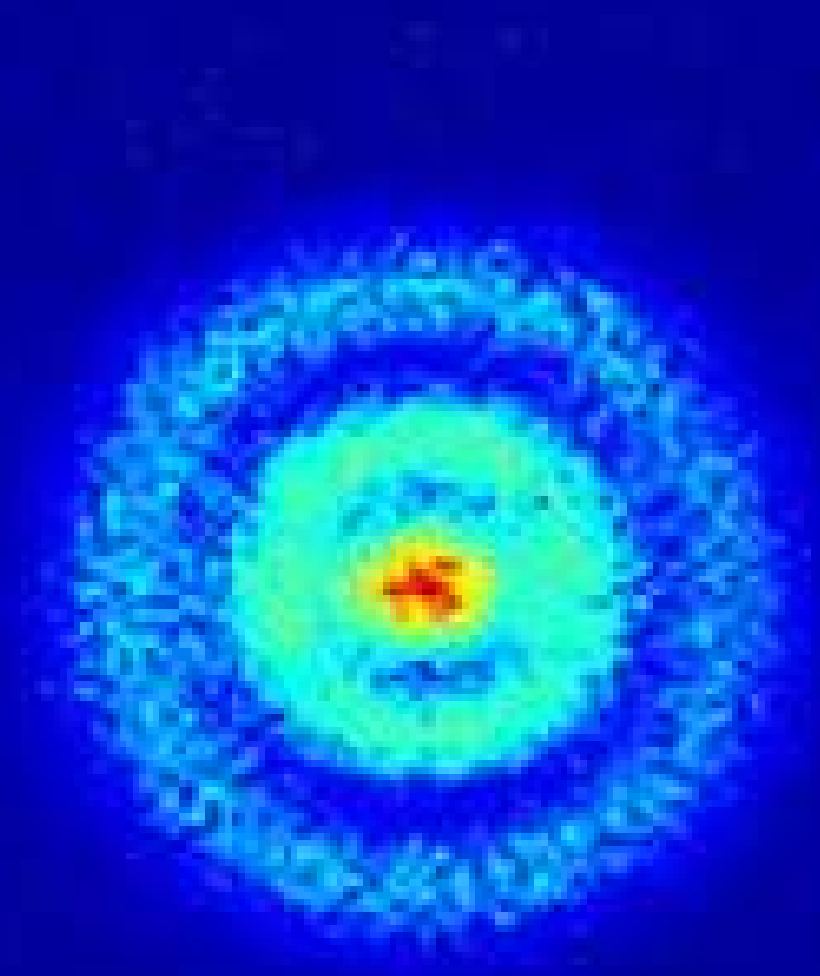
*2-dimensional standing wave in ripple tank*

1958



Traces of a hydrogen atom,  
flattened in time and space:

*(A composite photo of 100,000+  
discrete electron collisions.)*



Stodolna, A.S.; Vrakking, M.J.J.

'Hydrogen Atoms under Magnification: Direct Observation of the Nodal Structure of Stark States'

*Phys. Rev. Lett.* 110, 213001 – Published 20 May 2013





A quantized view of  
*photographic mechanics:*

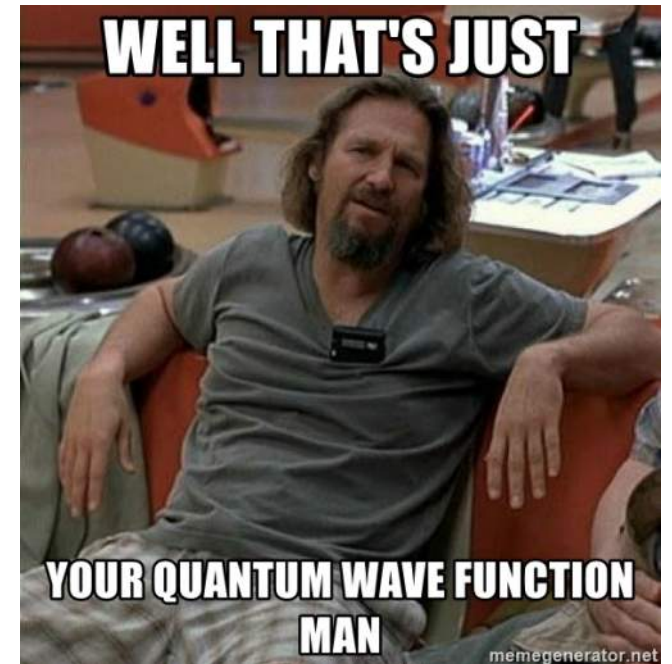
the smooth 'waves' of  
reality are recorded in  
pieces and 'mapped'  
onto a 2D plane.

David Hockney  
*Pearblossom Highway, 11-18 April, 1986 #1*  
1986



*So by analogy to quantum mechanics ...*

- Our perception and the perceived world are mutually in-forming.
- ‘Flat-ish’ photographic vision expands our lived perception, but also remains uncannily alien to it.



*What does this mean  
for the building scale?*

Pierre-Ambrose Richebourg  
*Barricades of the Commune, April 1871. Corner of the place Hotel de Ville and the rue de Rivoli,*  
1871

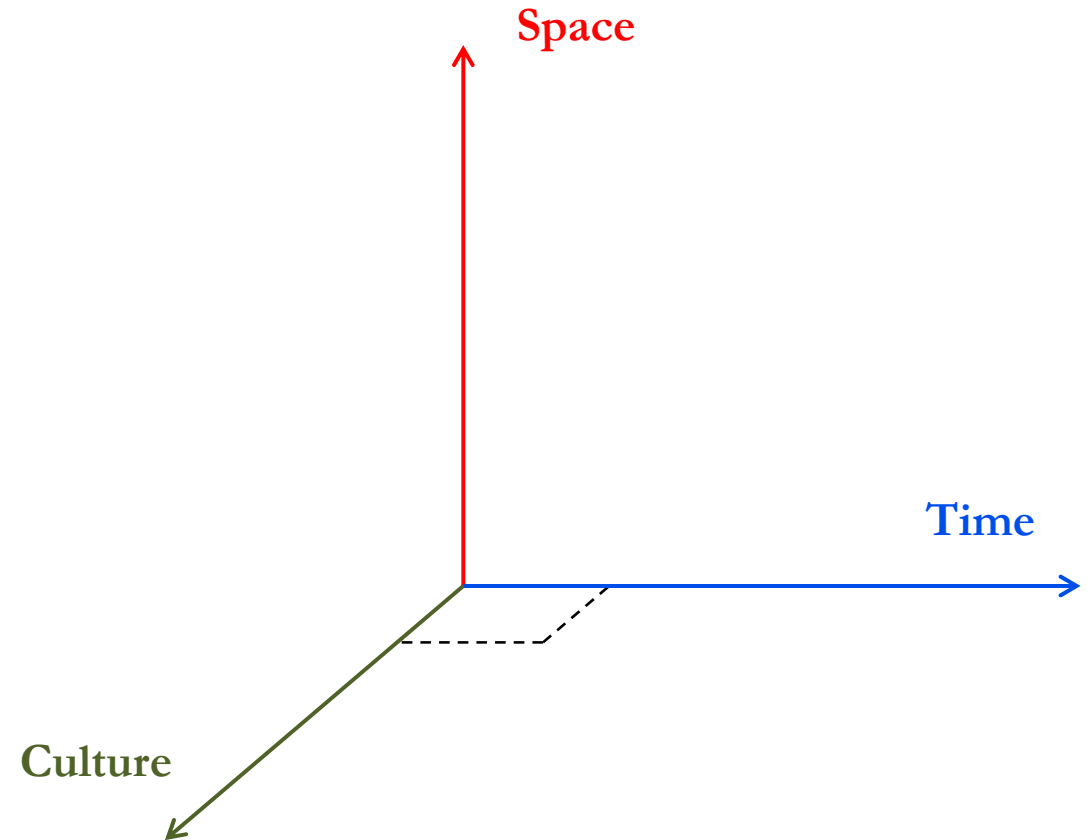


The built environment is manifold  
along at least 3 axes ...

... Photographs tend to *flatten* one  
axis to direct emphasis elsewhere.

... this is done by manipulating:

- *Optics (lens)*
- *Framing*
- *Exposure*
- *Lighting*
- *Point of view / situation*







(left)  
Denise Scott Brown  
*Tanya Billboard, Las Vegas*  
1966



(right)  
Denise Scott Brown  
*Architettura Minore on the Strip, Las Vegas*  
1966



(left)  
Denise Scott Brown  
*Tanya Billboard, Las Vegas*  
1966



(right)  
Denise Scott Brown  
*Architettura Minore on the Strip, Las Vegas*  
1966

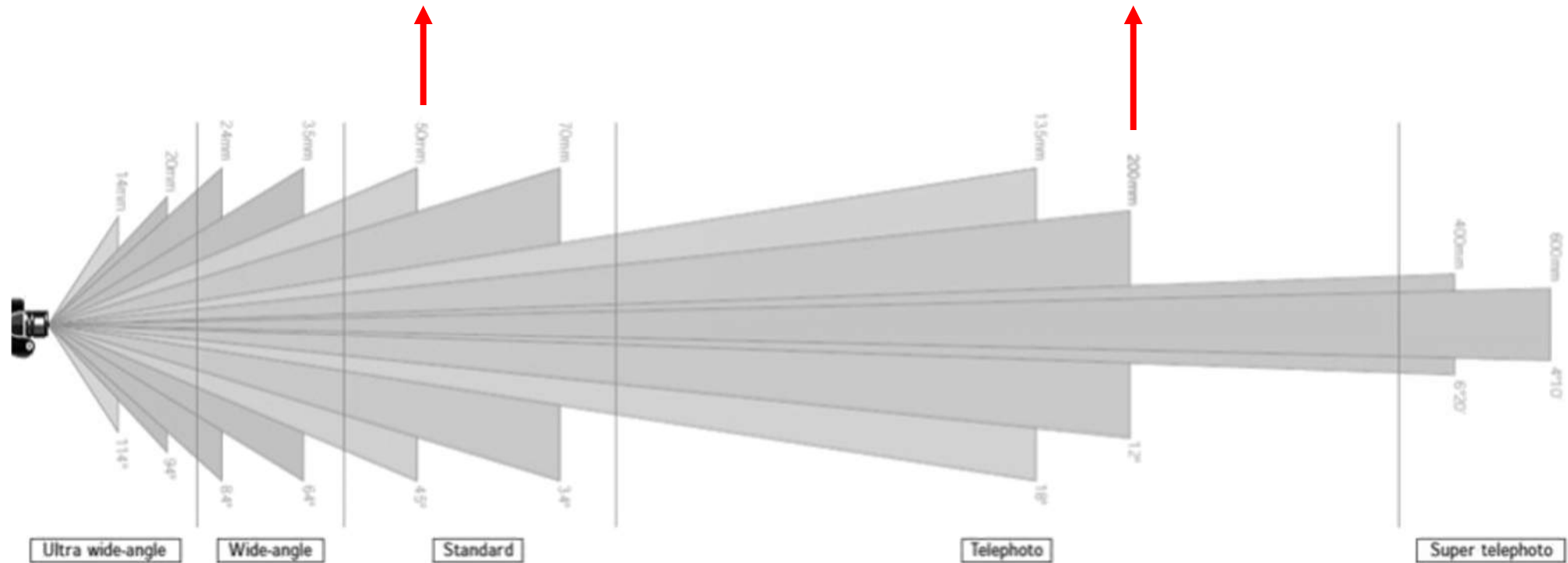






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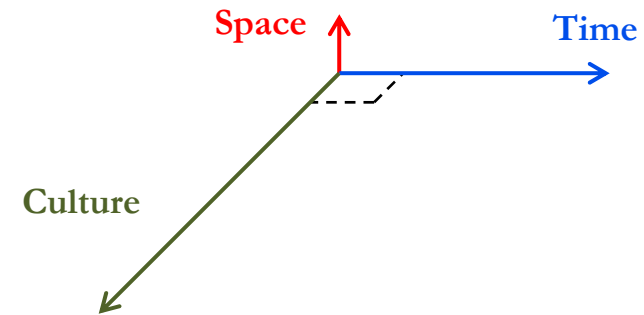
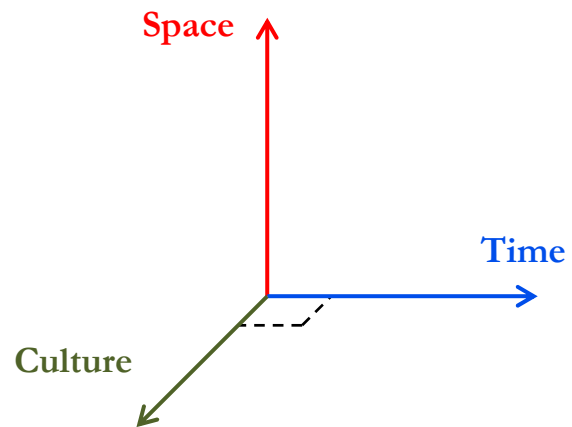




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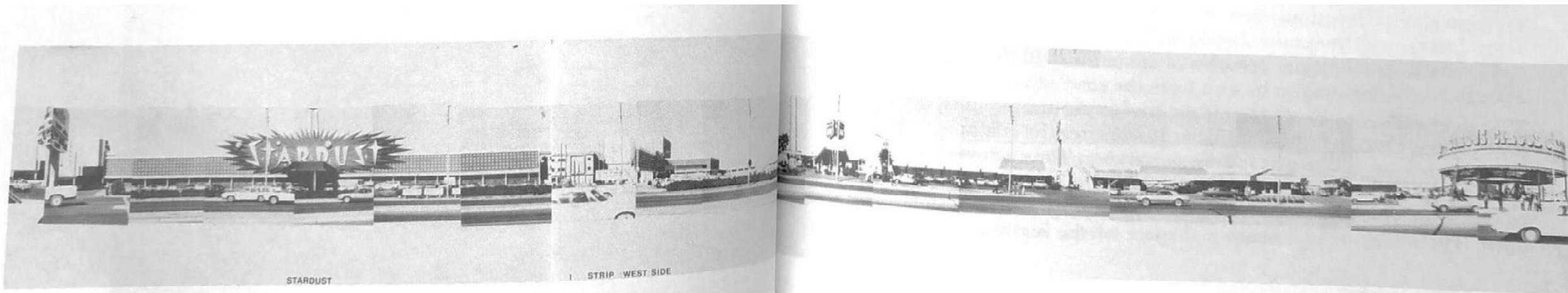
Denise Scott Brown  
*Signs, Las Vegas*  
1966





Denise Scott Brown  
*Pico Boulevard, Santa Monica*  
1966





33. A detail from an "Edward Ruscha" elevation of the Strip. Tourist maps are made of the Grand Canal and the Rhine showing the route lined by its palaces.



Ed Ruscha  
*Every Building on the Sunset Strip*  
1966



Ed Ruscha  
*Every Building on the Sunset Strip*  
 1966



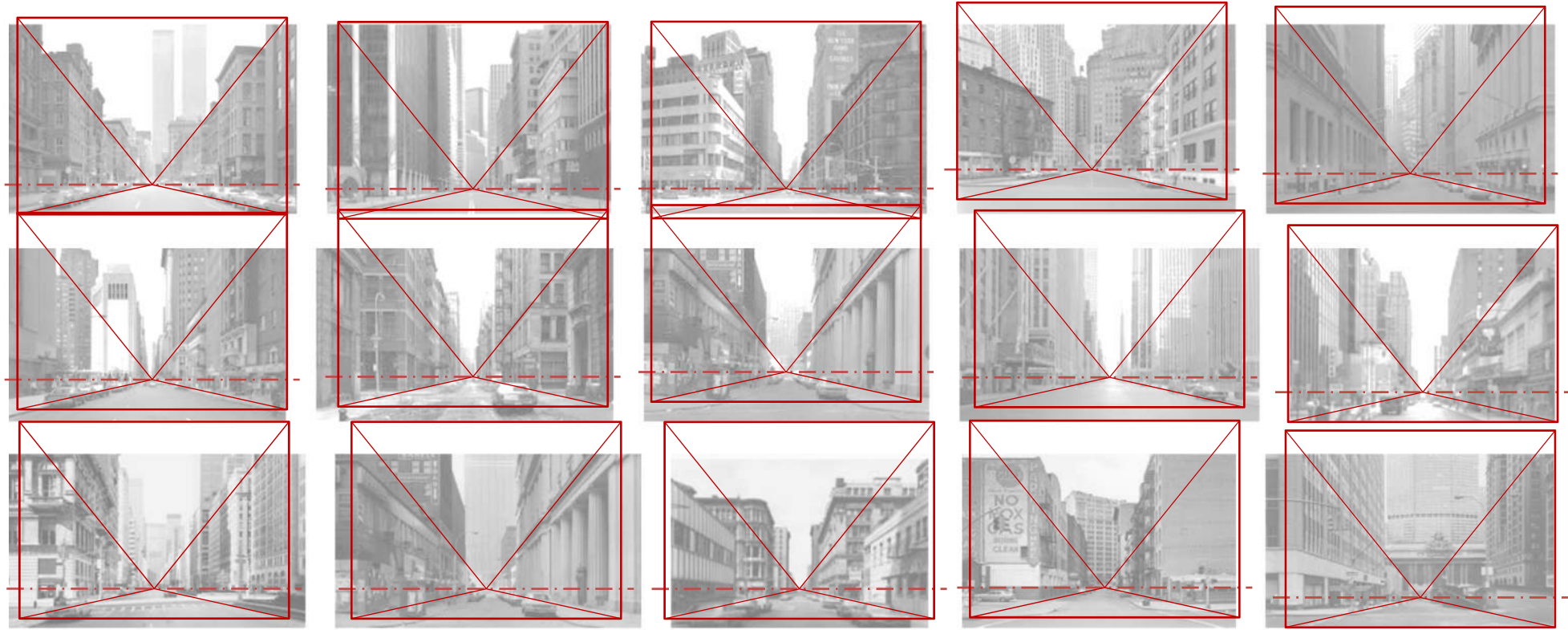


Ed Ruscha  
*Every Building on the Sunset Strip*  
1966





Bernd & Hilla Becher  
*Fachwerkhauser (Gable-sided Houses)*  
From "Anonymous Sculptures"  
1970



Thomas Struth  
*The Streets of New York City*  
1978





Berenice Abbott  
from *"Changing New York"*  
1935

Thomas Struth  
*Crosby Street*  
New York  
1978





Thomas Struth  
*Dey Street*  
New York  
1978





Thomas Struth  
*West Broadway*  
New York  
1978



Robert Wright  
*West Broadway Tribeca, NY*  
(after Struth)  
New York  
2015



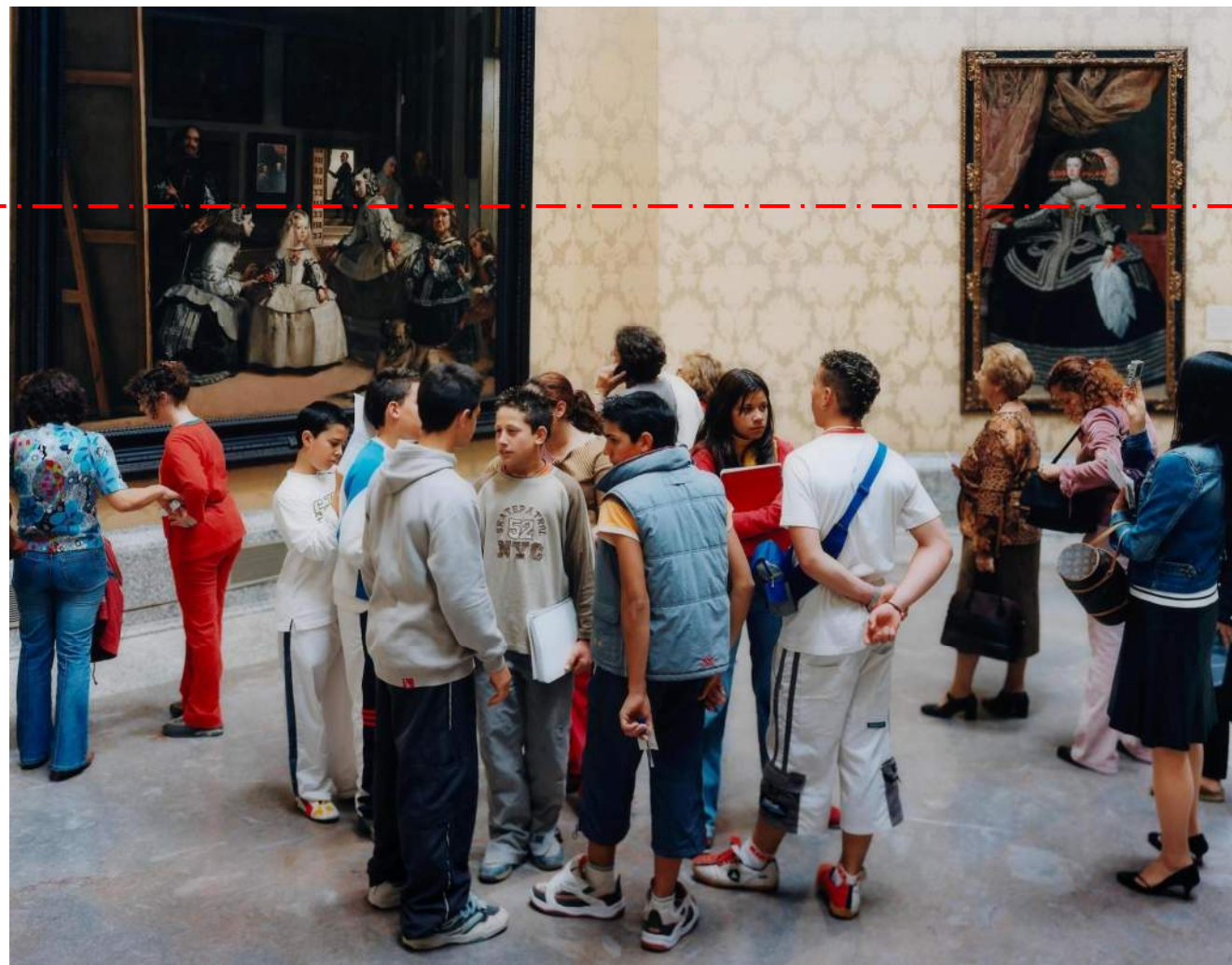


Thomas Struth  
*National Gallery I*  
London  
1990





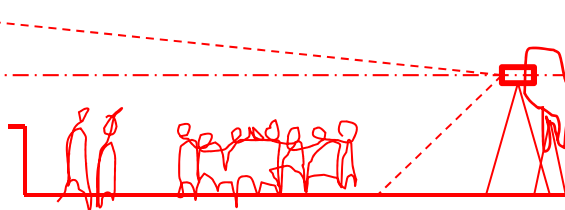
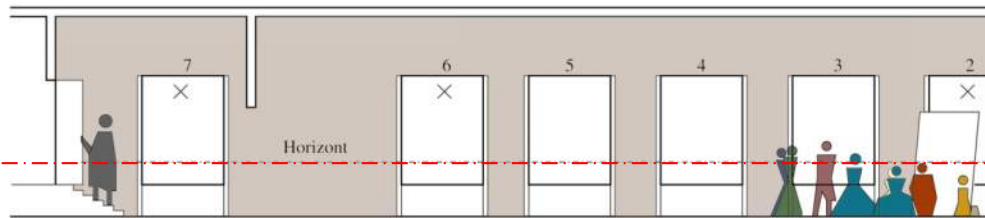
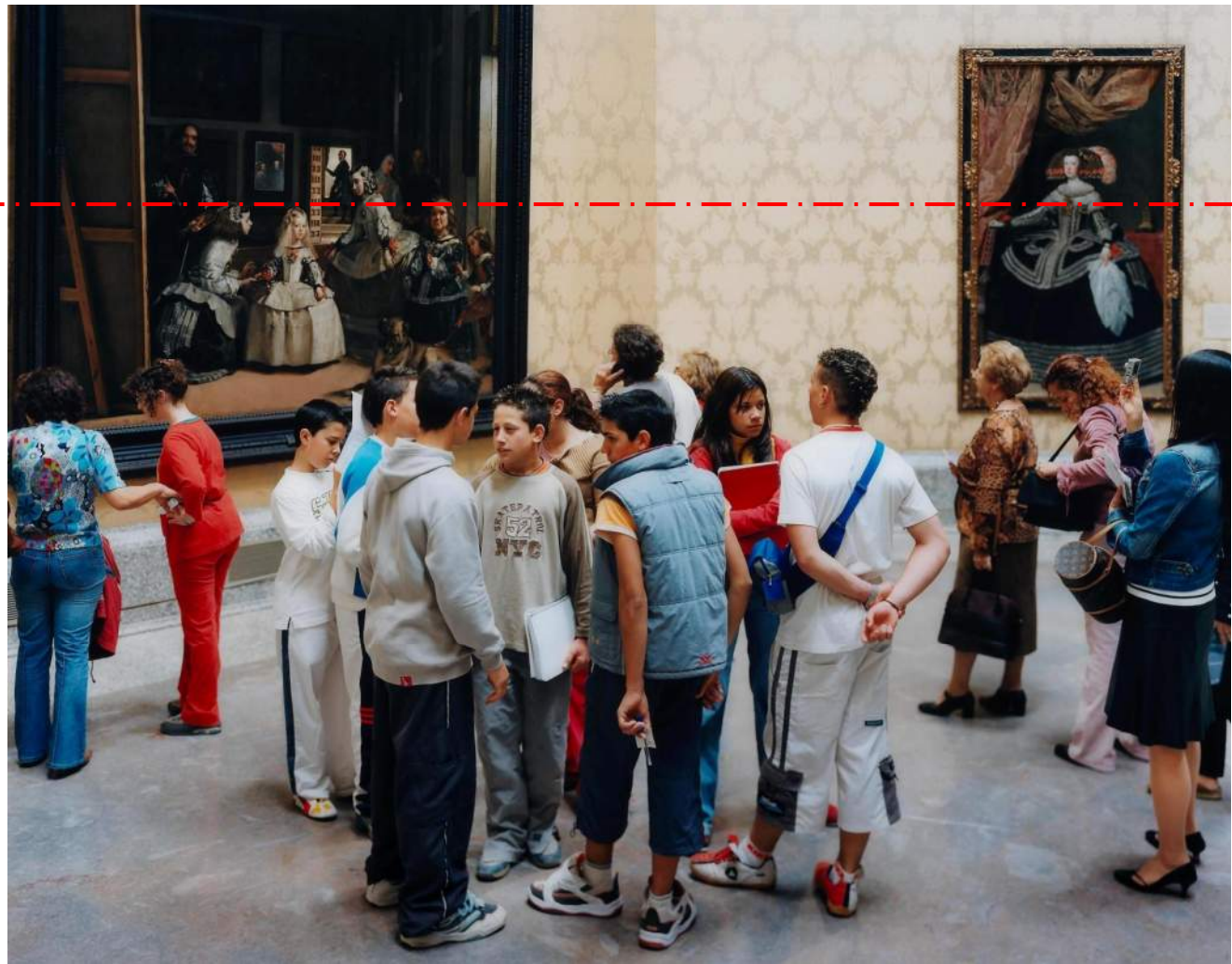
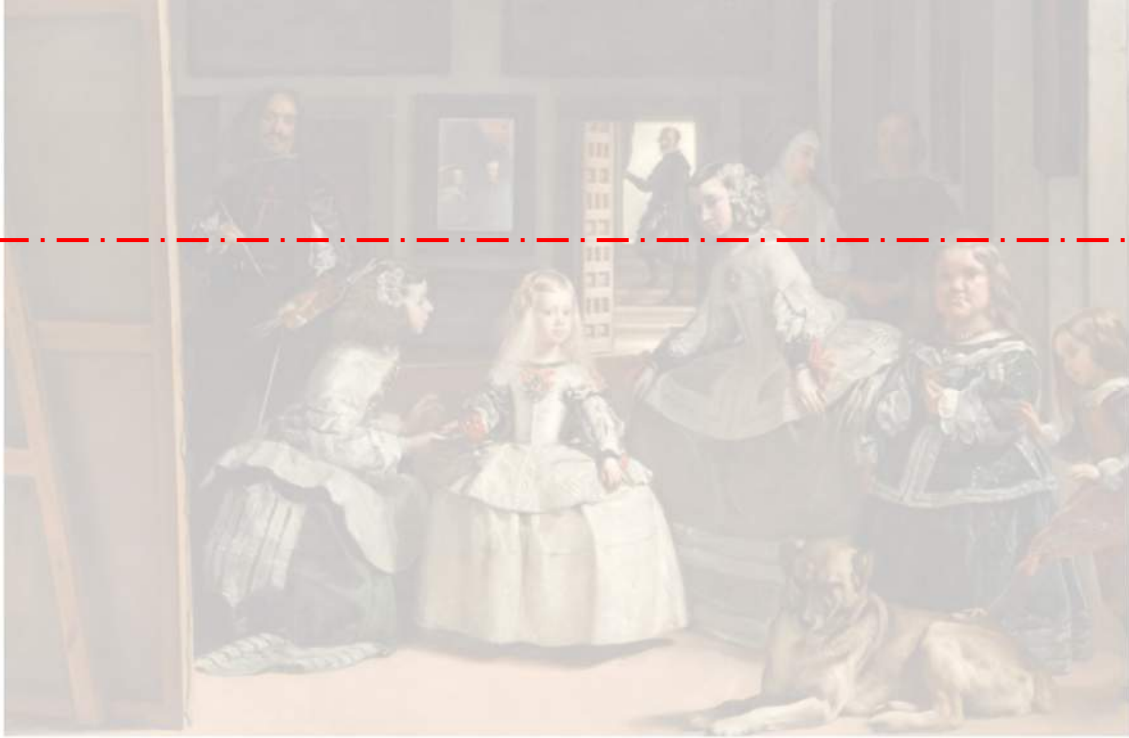
Diego Velázquez  
*Las Meninas*  
 1656

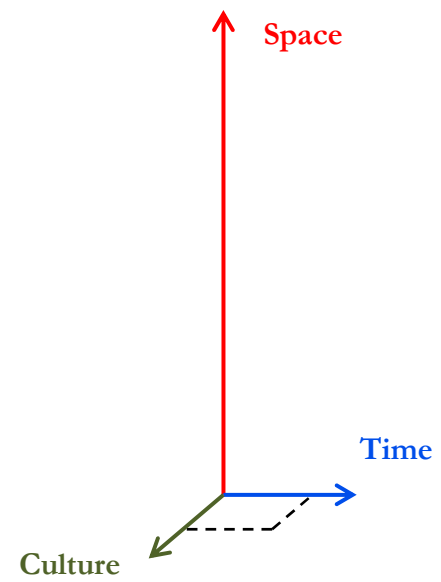


Thomas Struth  
*Museo Del Prado 4*  
 Madrid  
 2005











Thomas Struth  
*Audience 7 (Galleria Dell'Accademia)*  
Florence  
2004



Thomas Struth  
*Audience 4 (Galleria Dell'Accademia)*  
Florence  
2004







Thomas Struth  
*The Pantheon,*  
 Rome, IT  
 1990



Ezra Stoller  
*World's Expo,*  
 Flushing, Queens, NY  
 1964



Ezra Stoller  
*Seagram Building* (Mies van der Rohe)  
New York, NY  
1959





Ezra Stoller  
*John Hancock Center (SOM)*  
Chicago, IL  
1967





Ezra Stoller  
*Dulles Terminal* (Eero Saarinen)  
Washington, D.C.  
1967



Ezra Stoller  
*Dulles Terminal* (Eero Saarinen)  
Washington, D.C.  
1967









Ezra Stoller  
*Whitney Museum of American Art* (Marcel Breuer)  
New York, NY  
1966



















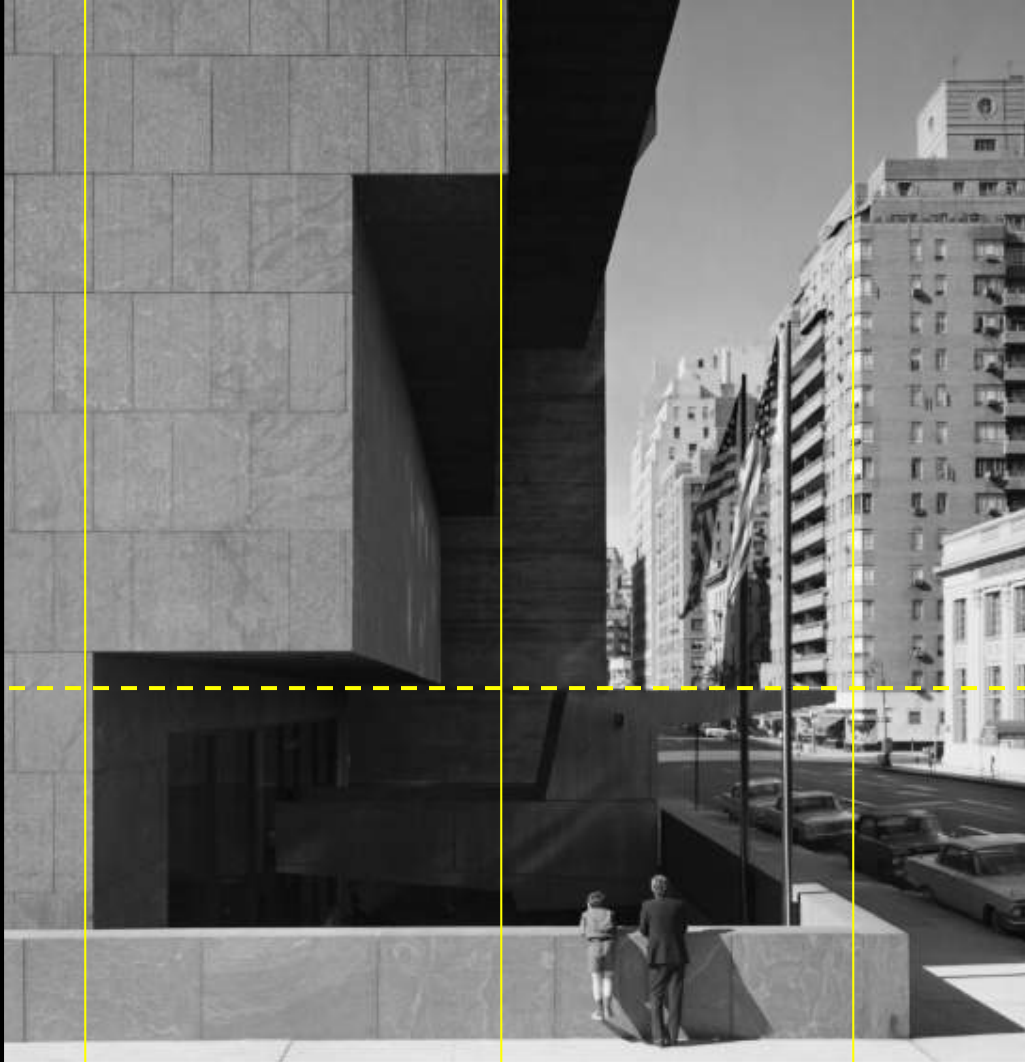
*piano nobile*



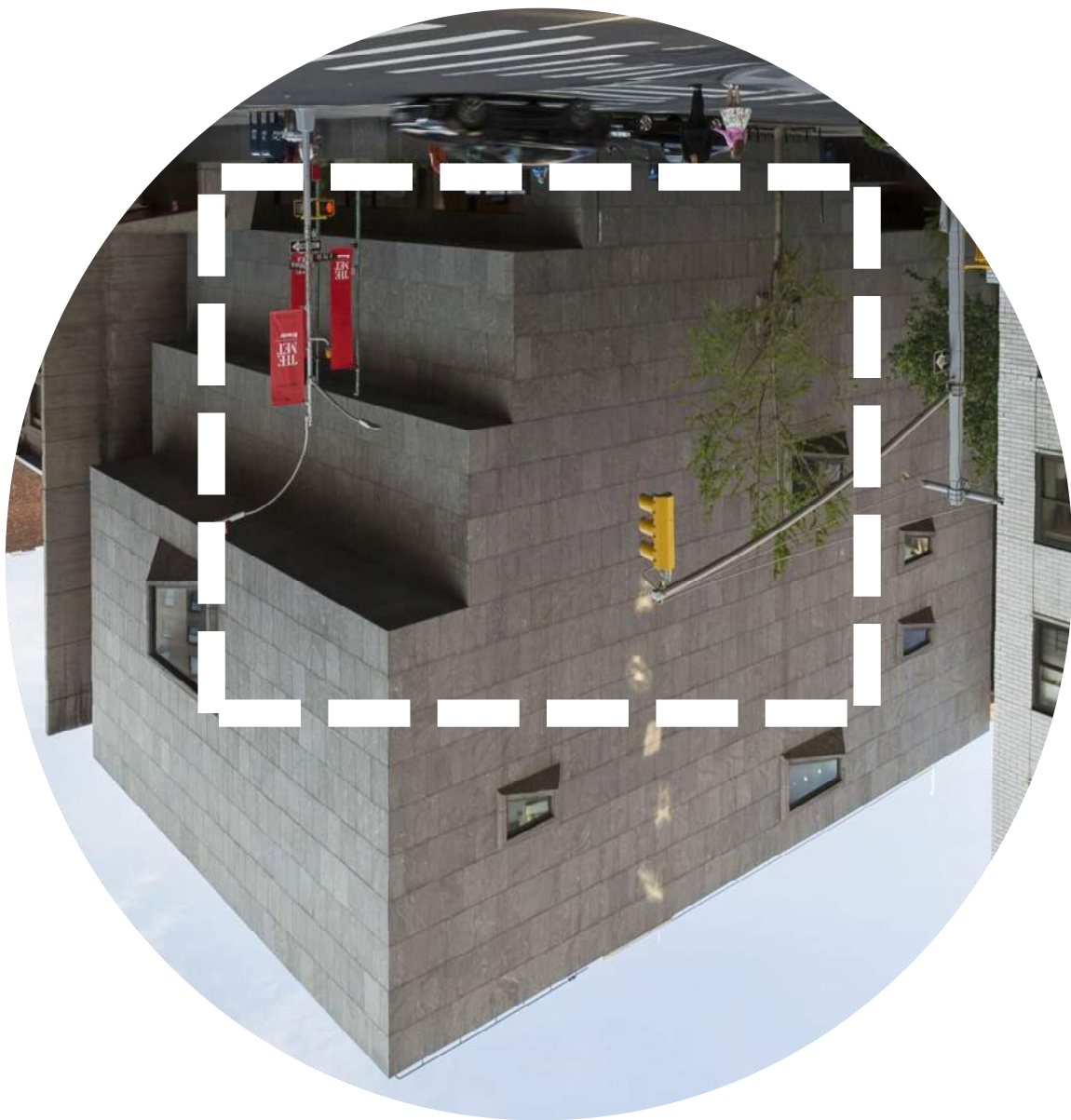






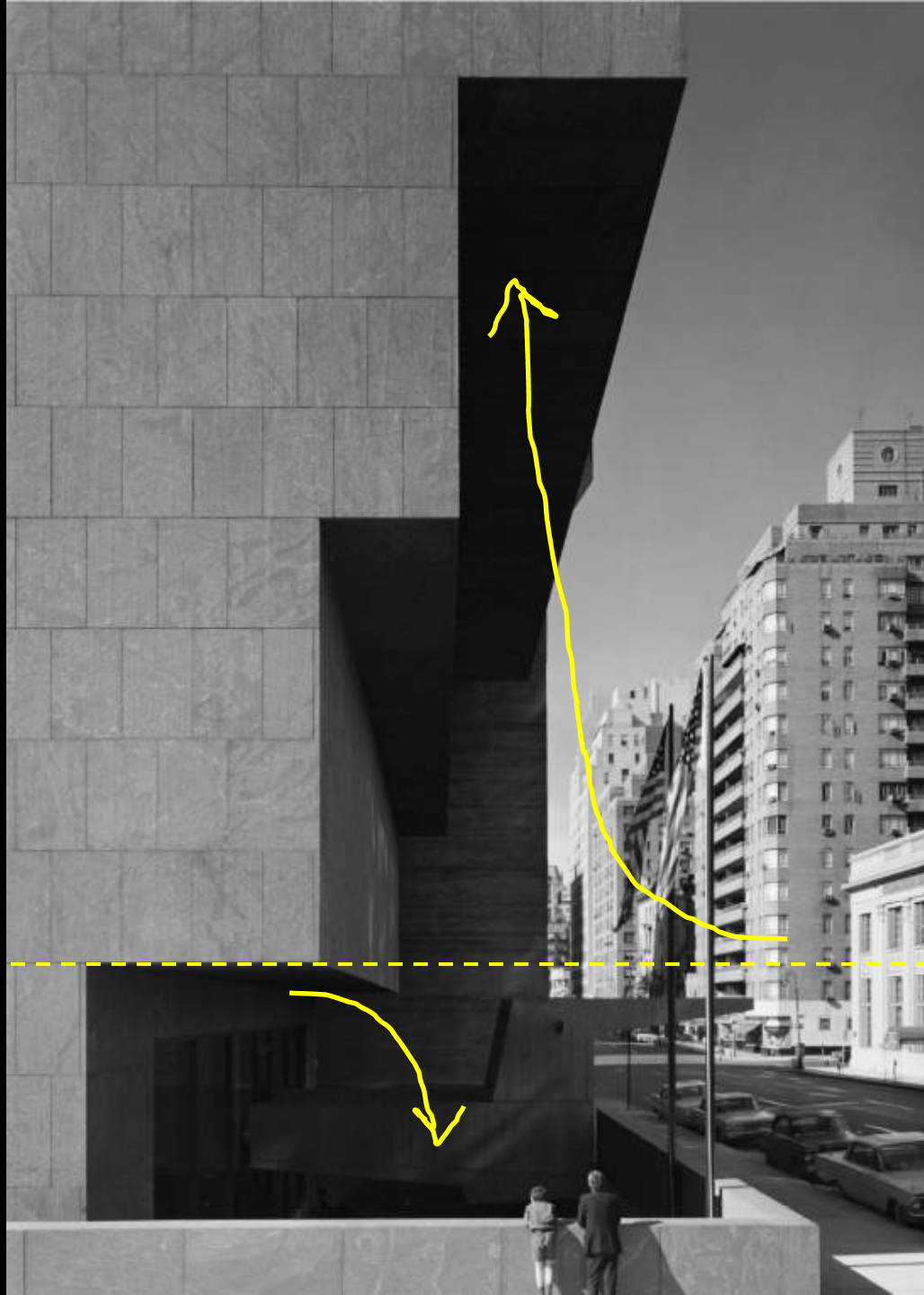


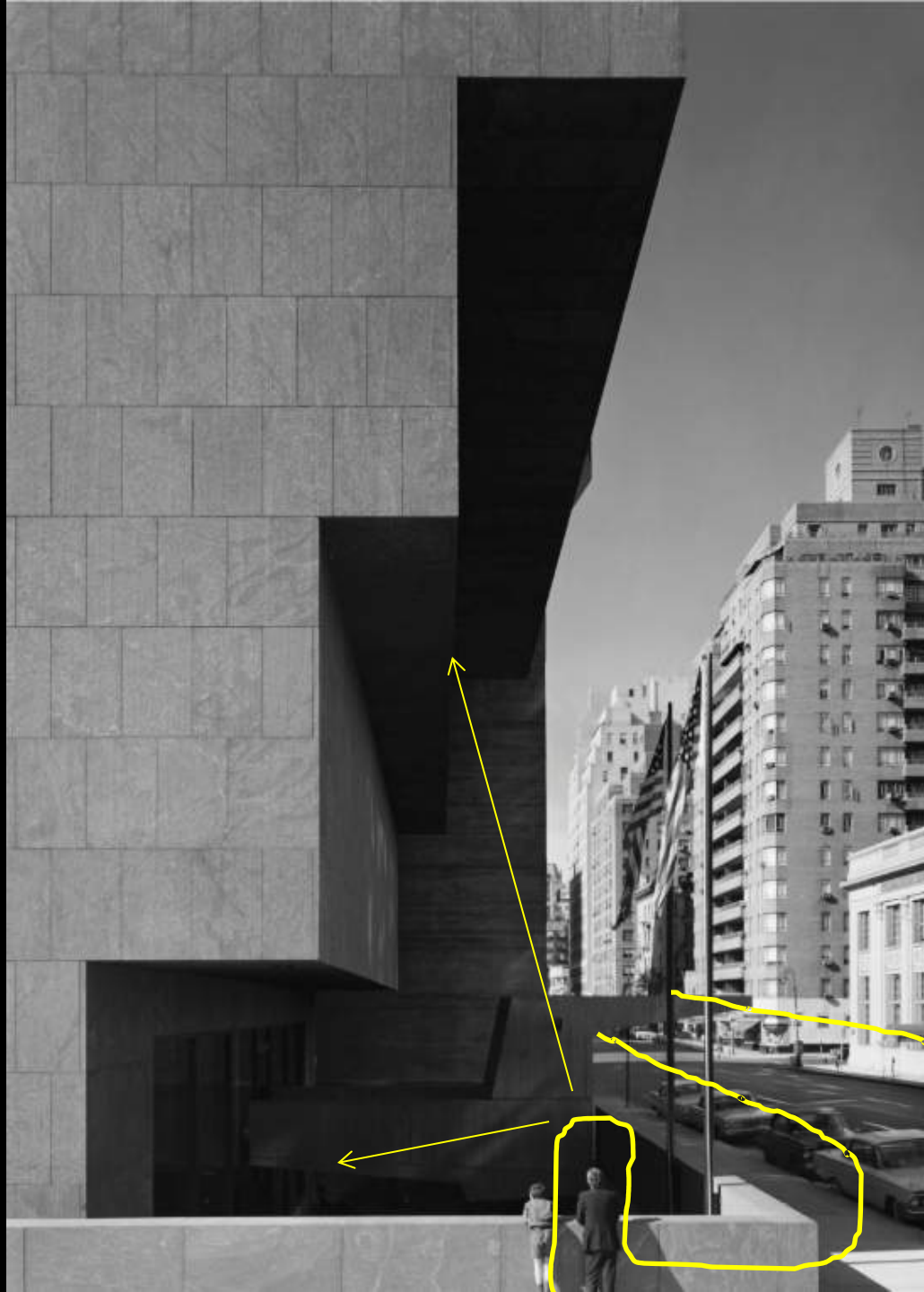
*piano nobile*

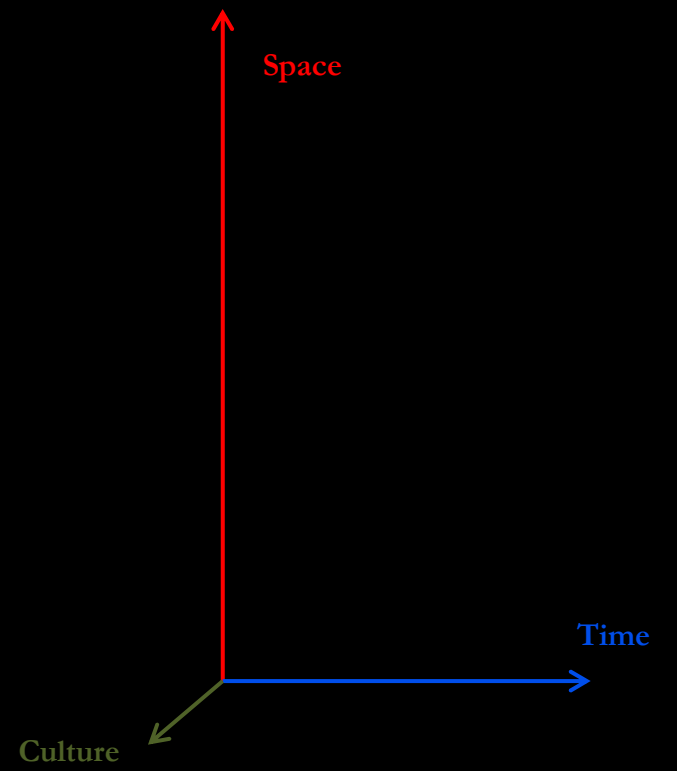
















Luigi Ghirri  
*Roma, Pantheon,*  
1982





Modena, 1986. Houeje 1996. 3/5 Paola Ghirri

Luigi Ghirri  
*Cemetery at San Cataldo*  
(Aldo Rossi)  
1986



Luigi Ghirri  
*Cemetery at San Cataldo*  
 1986





Luigi Ghirri  
*Cemetery at San Cataldo*  
1986



Luigi Ghirri  
*Cemetery at San Cataldo*  
1986





Alex Webb  
*Boqillas, Mexico*  
1979

From the Book:  
"La Calle"





Alex Webb  
*Leon, Mexico*  
1987

From the Book:  
"La Calle"



Alex Webb  
*Tecate, Mexico*  
1995

From the Book:  
"La Calle"

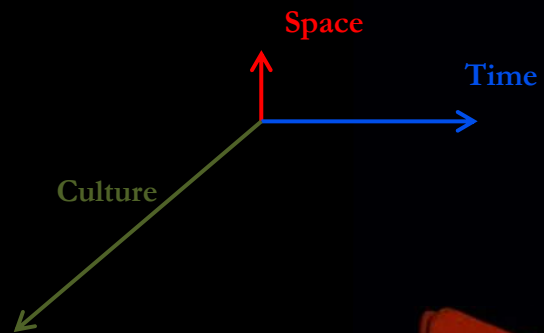




Alex Webb  
*Tijuana, Mexico*  
1997

From the Book:  
"Crossings: Photographs from  
the US-Mexico Border"





OFICIALIA  
del  
REGISTRO CIVIL



Alex Webb  
*Nuevo Laredo, Mexico*  
1996

From the Book:  
"Crossings: Photographs from  
the US-Mexico Border"





Rene Magritte  
*La reproduction interdite*  
1937

*FIN.*