The Next Environmental Revolution

THE AMERICAN PROSPECT

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Architecture: Boring Buildings

SARAH GOLDHAGEN DECEMBER 12, 2001

ow that the World Trade Center towers are gone,
will Tony Soprano still
glance at them in his side-view mirror as he drives home on the New

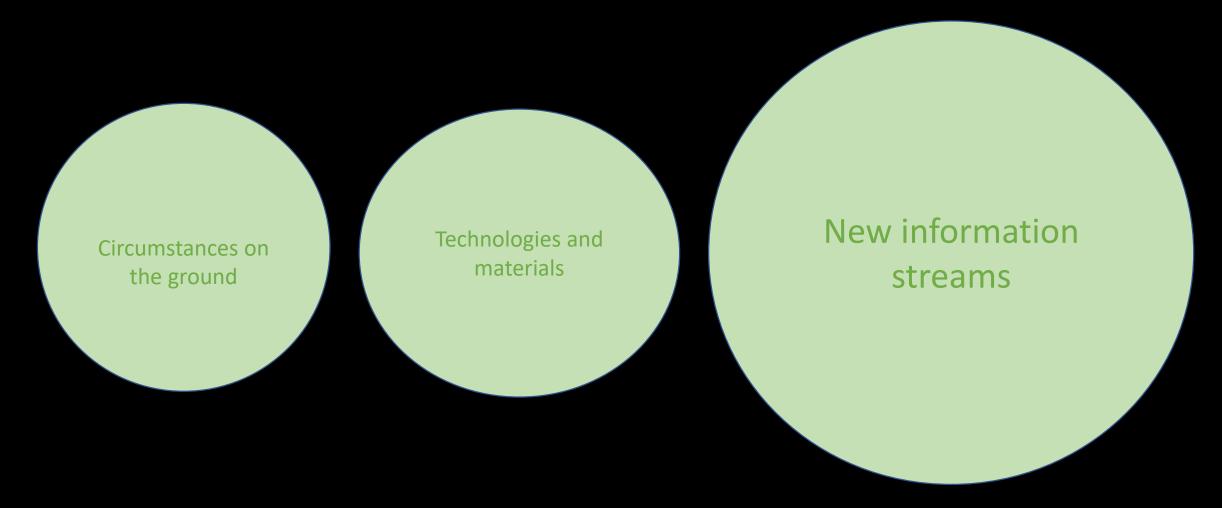
Turnpike? Or will *The Sopranos'* producers have him looking back at the now denuded skyline of Manhattan--at the squat residential towers of Battery Park City, all dressed up in frills and pink veneer?

Not likely. The twin towers were that rare entity in the American architectural fabric: a good, perhaps even a great, work of architecture.

Jersey

Environment mountains rivers forests plains/ fields 2018 1960

Changes in Design Ideas for Built Environment



New Information Streams

Psychology

Environmental
Ecological
Evolutionary
Social
Occupational

Science and Medicine
Cognitive
neuroscience
Public Health

Studies in Cognition
Cognitive Linguistics
Philosophy of Mind/
Embodied Cognition
3/29/2019

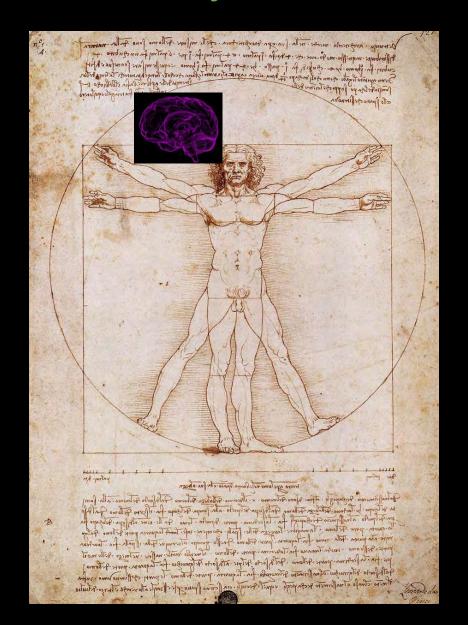
A new paradigm: how environments shape human lives



Human response to and experience in environments physiological, cognitive, psychological



Mind-Body Connection



















Humans experiencing environments

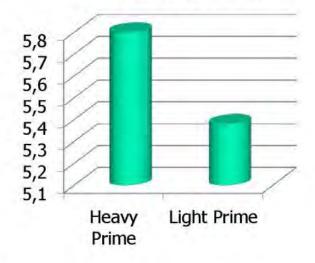
nonconscious



Ackerman, Nocera & Bargh (2010): Experiment 1

- Ps asked to evaluate job candidate applications – based on CV
- CV given on either a) heavy clipboard or b) light clipboard
- Those holding heavy clipboards rated applicants as more suitable
- Why?
 - Because 'heavy' implicitly associated with perceived seriousness of application
 - Suitability impression activated







Human experiencing environments

nonlogical/associative: embodied cognition



Shedding light on insight: Priming bright ideas

Michael L. Slepian ^{a,*}, Max Weisbuch ^a, Abraham M. Rutchick ^b, Leonard S. Newman ^c, Nalini Ambady ^a

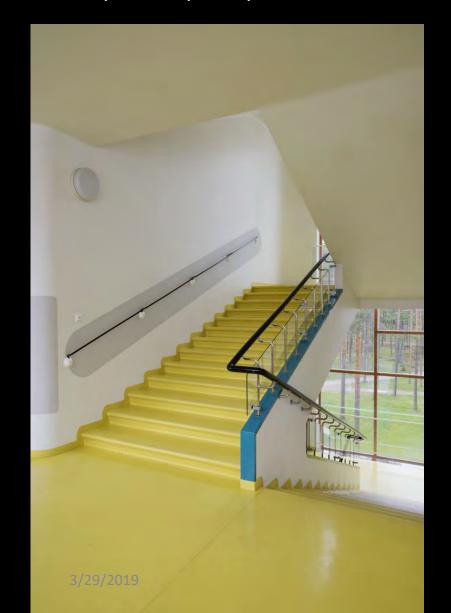
^a Tufts University, Psychology Department, 490 Boston Ave., Medford, MA 02155, United States

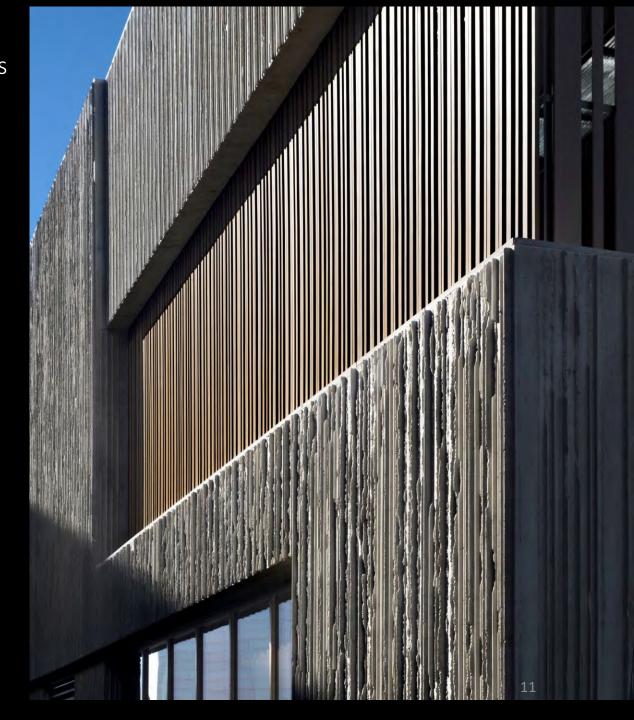
^b California State University, Northridge, Psychology Department, 18111 Nordhoff Street, Northridge, CA 91330, United States

^c Syracuse University, Psychology Department, 430 Huntington Hall, Syracuse, NY 13244, United States



Multisensory and Multimodal canonical neurons → J.J. Gibson's notion of affordances "Perception is perception for action"





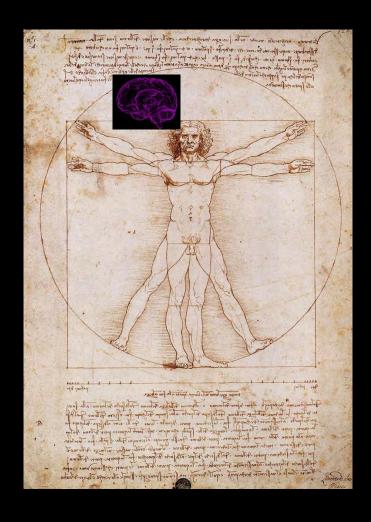
Nonconscious, Non-logical/Associative, Multisensory, Multimodal PRIMES

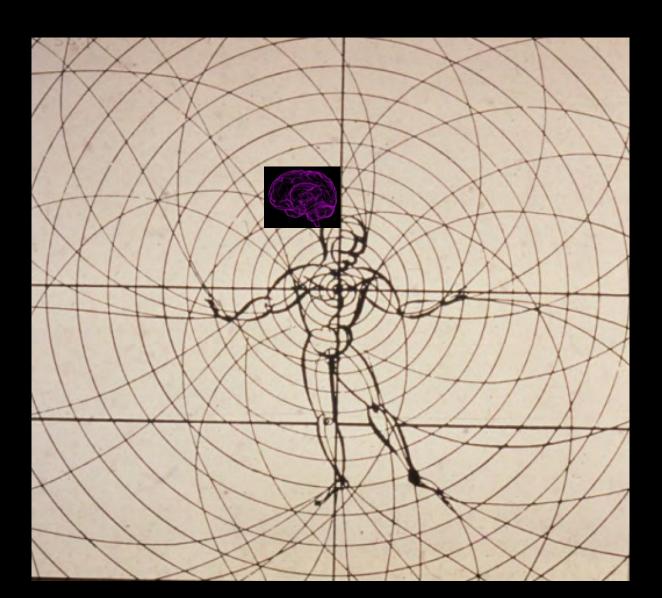




New paradigm of human-environment relationship

Mind-Body Mind-Body-Environment





Critical factor in human response to environment is DESIGN:

Learning and cognitive development





Effects of human-centered design Biophilia and biomimicry





LEED/WELL Building StandardWELL Return on Investment

Employee retention:

Worker productivity:

• Absenteeism:

• Presenteeism (includes focus, attention):

• Employee communication:

Employee sharing of ideas and collaboration:

Promote health and well being

1% reduction annual turnover

16% increase in first year

19% decrease

16% increase

42% increase

44% increase

Cornell University Department of Design and Environmental Analysis, ASID Research, Innovative Workplace Institute, Delos Institute

Building owners adopting human-centered WELL standard report:

73% positive impact on building leasing62% positive impact on building value79% positive impact on occupant satisfaction

Dodge Data Analytics, The Drive Toward Healthier Buildings (2016)







Human habitats

possibilities for development directly linked to environmental factors





Form

wayfinding, imageability, placemaking



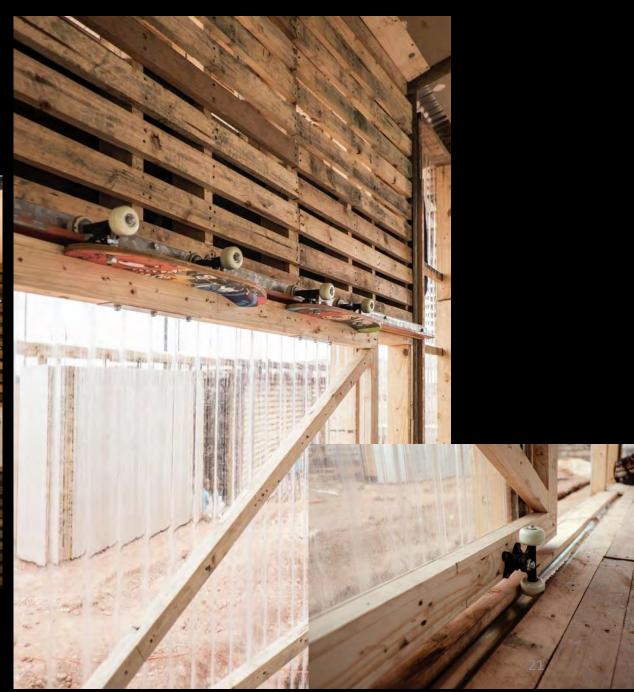
Surfaces and materials





Construction details



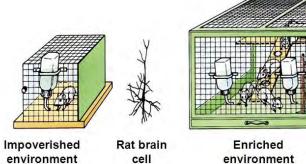


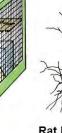
Enriching Environments

Environmental Influence



Experience affects brain development







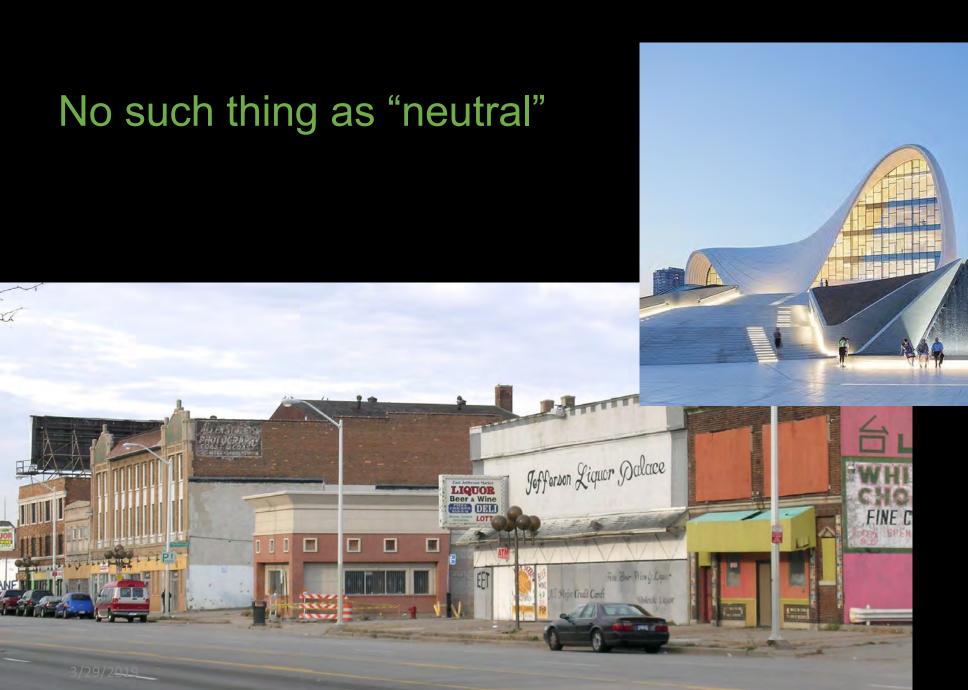




Poor design decisions lead to poor outcomes







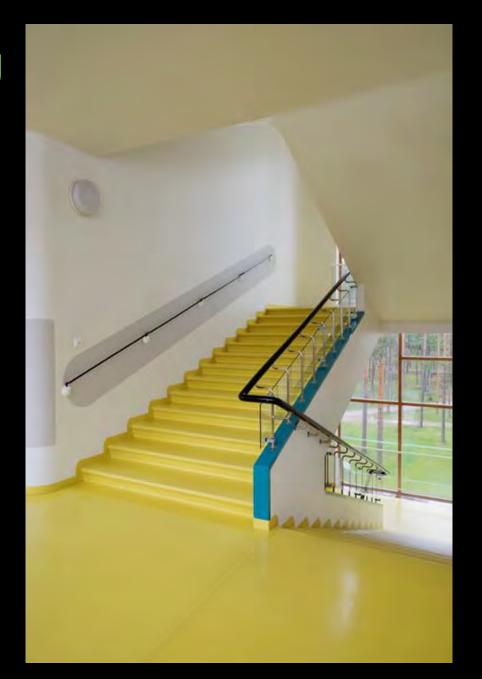
Patterned complexity and legibility





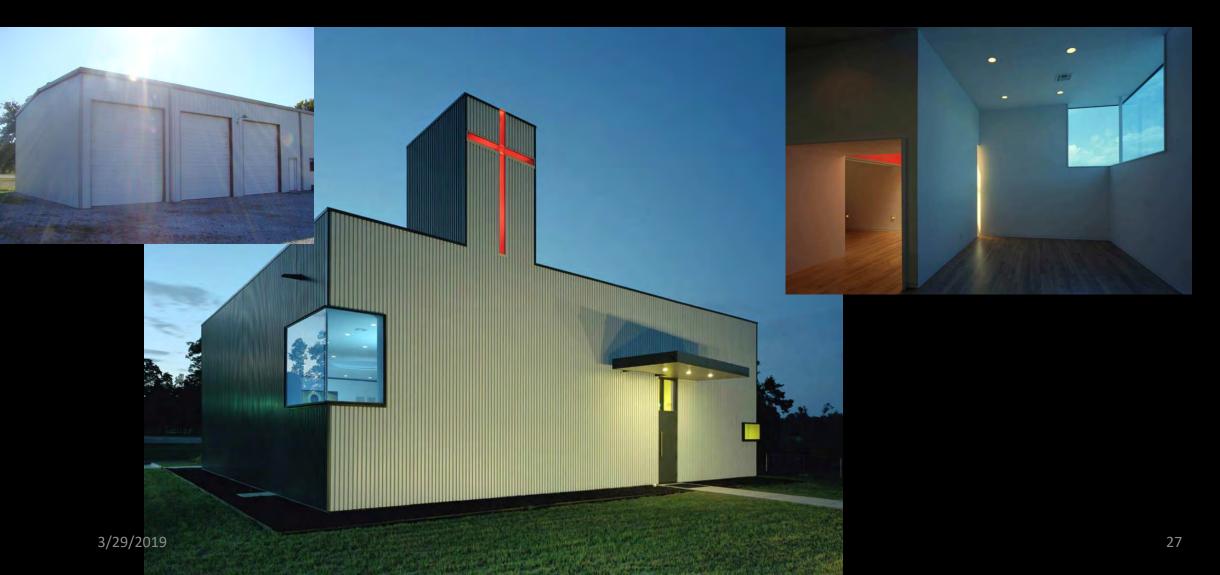
Changeability and placemaking



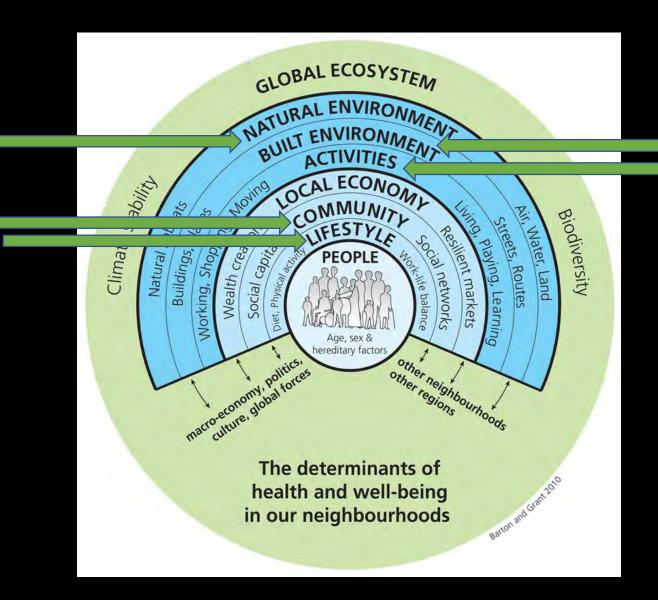


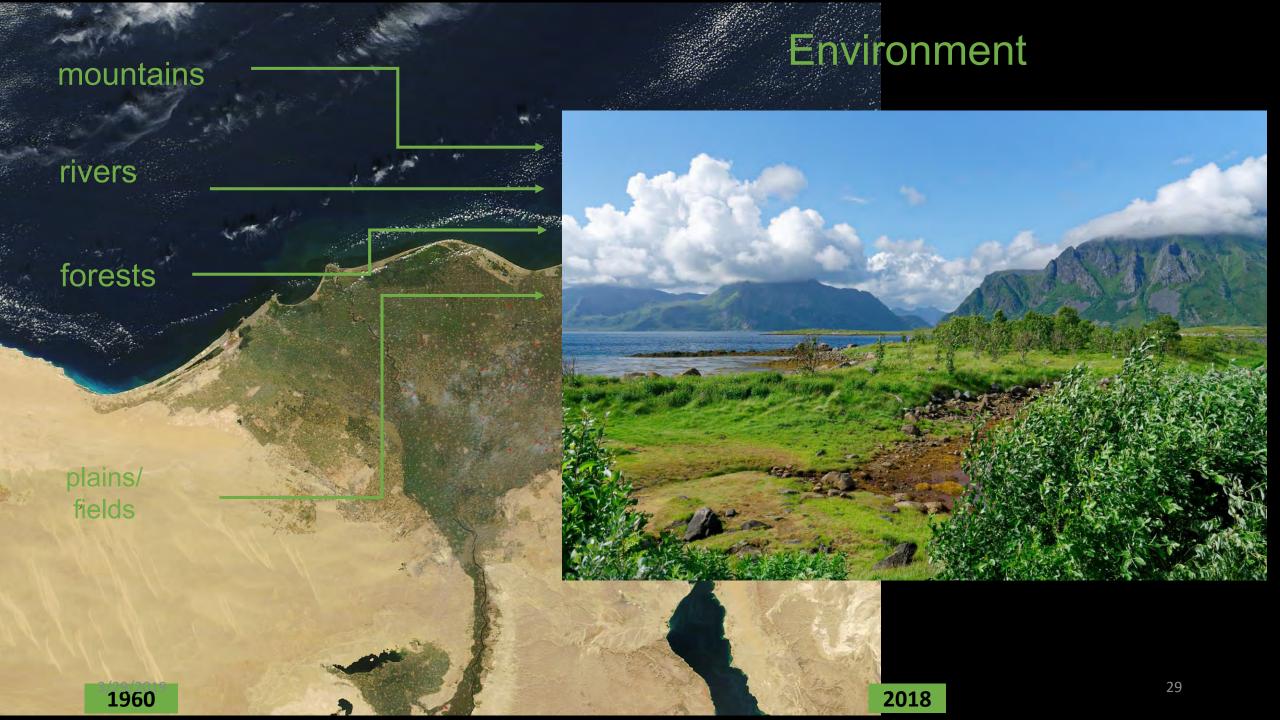
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Design is a public good: the kind of art that everyone deserves



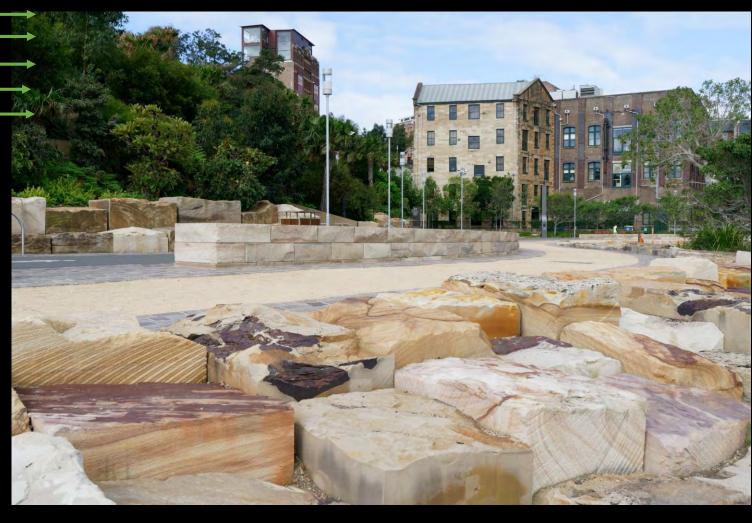
Social determinants of health





Landscape architecture Urban design Infrastructure Architecture Interior design 1990

Built environment



How can we create more enriching, human-centered environments? (X2 -- more of them, and more human-centered)





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