

Biophilic Design: Definitions

<p>Erich Fromm 1960's</p> <p>In his exploration of the "essence of man." He saw that humans' awareness of their mortality separates them from nature, causing deep anxiety and conflict. Humans try to overcome this anxiety by either a regressive path of narcissism, incestuous symbiosis, violence, and necrophilia or a progressive path of altruism, freedom, and biophilia. "Biophilia" was defined as a love of life and living processes.</p> <p>E.O Wilson 1984</p> <p>Wilson defined biophilia as "the innate tendency to focus on life and lifelike processes." He utilized the term "biophilia" to describe his deep feelings of connection to nature during a period of exploration and immersion in the natural world. Wilson's special insight was that this biophilic propensity developed as part of evolutionary survival, so it encompasses certain characteristics that remain with humans even in modern cities.</p> <p>Stephen Kellert Biophilic Design, 2008</p> <p>Building Scale</p> <p>Timothy Beatley Biophilic Cities, 2011</p> <p>City Scale</p>	<p>Kellert, Heerwagan, Mador</p> <p>Biophilic Design New York: John Wiley & Sons, 2008</p> <ol style="list-style-type: none"> 1. Environmental Features 2. Natural Shapes and Forms 3. Natural Patterns and Processes 4. Light and Space 5. Place-Based Relationships 6. Evolved Human-Nature Relationships 	<p>TERRAPIN</p> <p>14 Patterns of Biophilic Design Terrapin Bright Green, 2014</p> <p>Nature in the Space Patterns</p> <ol style="list-style-type: none"> 1. Visual Connection with Nature 2. Non-Visual Connection with Nature 3. Non-Rhythmic Sensory Stimuli 4. Thermal & Airflow Variability 5. Presence of Water 6. Dynamic & Diffuse Light 7. Connection with Natural Systems <p>Natural Analogues Patterns</p> <ol style="list-style-type: none"> 8. Biomorphic Forms & Patterns 9. Material Connection with Nature 10. Complexity & Order <p>Nature of the Space Patterns</p> <ol style="list-style-type: none"> 11. Prospect 12. Refuge 13. Mystery 14. Risk/Peril 	<p>STEPHEN R. KELLERT</p> <p>Nature by Design: The Practice of Biophilic Design 2018</p> <p>I. Direct Experience of Nature</p> <ol style="list-style-type: none"> 1. Light 2. Air 3. Water 4. Plants 5. Animals 6. Landscapes 7. Weather 8. Views 9. Fire <p>II. Indirect Experience of Nature</p> <ol style="list-style-type: none"> 10. Images 11. Materials 12. Texture 13. Color 14. Shapes and forms 15. Information richness 16. Change, age, and the patina of time 17. Natural geometries 18. Simulated natural light and air 19. Biomimicry <p>III. Experience of Space and Place</p> <ol style="list-style-type: none"> 20. Prospect and refuge 21. Organized complexity 22. Mobility 23. Transitional spaces 24. Place 25. Integrating parts to create wholes 	<p>Wilderness Based Checklist for Design and Construction</p> <p>Malcolm Wells</p> <ol style="list-style-type: none"> 1. Air 2. Water 3. Rainwater 4. Food 5. Soil 6. Waste 7. Wildlife habitat 8. Energy 9. Transportation 10. Local weather 11. Natural Light 12. Heating 13. Cooling 14. Maintenance 15. Circulation 16. Comfort 17. Indoor Air 18. Material 19. Recycle 20. Symbolic nature of the building 21. Neighborhood 22. Aesthetics judgment
<p>https://link-springer-com.ezp2.lib.umn.edu/content/pdf/10.5822%2F978-1-61091-686-8.pdf</p>	<p>Kellert R. Stephen, Judith H. Heerwagen, Martin L. Mador. Biophilic Design. New York: John Wiley & Sons, Inc. 2008.</p>	<p>Terrapin Bright Green. 14 Patterns of Biophilic Design. New York: Terrapin Bright Green, 2014, https://www.terrabinbrightgreen.com/wp-content/uploads/2014/09/14-Patterns-of-Biophilic-Design-Terrapin-2014p.pdf.</p>	<p>Kellert R. Stephen. Nature By Design: The Practice of Biophilic Design. New Haven: Yale University Press, 2018.</p>	<p>https://www.sbse.org/sites/sbse/files/resources/wells_checklist_explanation.pdf</p>