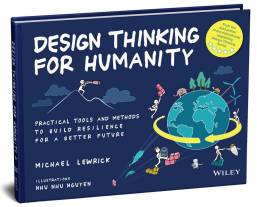
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Biomimicry & Permaculture Principles

Quick guide: Biomimicry means learning from and emulating strategies found in nature to solve design challenges. Permaculture applies principles from natural ecosystems to build sustainable, self-sufficient systems.

More tips & tricks on book page: 206



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1 Define the Design Challenge as a Function

Start by clearly stating the core function or problem to be solved. Be specific.

Core Function / Problem
e.g., "How can we create a building facade that passively cools itself in a hot climate?"

2 Identify Nature's Champions (Biomimicry)

"Biologize" the problem: research how nature or an organism has already solved a similar challenge. Identify the underlying principle, not just the form.

Organism / Natural Strategy	Underlying Principle (the "how", abstracted from the form)

3 Apply Ecosystem Principles (Permaculture)

Once a core idea is inspired by a natural model, apply permaculture principles so the solution works as part of a larger, beneficial system.

Stacking Functions
How can this solution perform multiple functions (e.g., cools and harvests rainwater)?

Creating No Waste
How can the outputs of this system become inputs for another (e.g., water irrigates a green roof)?

Integration, Not Segregation
How does the solution integrate with and benefit its surrounding environment?

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