



BIOPHILIA & DESIGN: BRINGING THE OUTDOORS IN

With remote work decreasing the need for dedicated personal spaces, progressive, collaborative offices and co-working spaces are bringing the outdoors in, designing interiors to include plants, sunlight and fresh air, as well as "natural analogues," surfaces and materials that mimic the natural environment.

Research overwhelmingly shows that exposure to natural elements indoors is genuinely good for our mental and physical well-being. A recent Harvard study showed that subjects in offices exposed to real nature (plants and views outside) and those wearing virtual reality headsets with images of nature both showed improved health and productivity outcomes over subjects who sat in environments with no exposure to nature. 10 Another study by the University of Oregon found that simply providing employees with a view of trees and landscape reduced the amount of sick time they took per year. 11 According to workplace designer Leigh Stringer, "Biophilic strategies used indoors are really just attempts to recreate the outdoors."

See It At Work

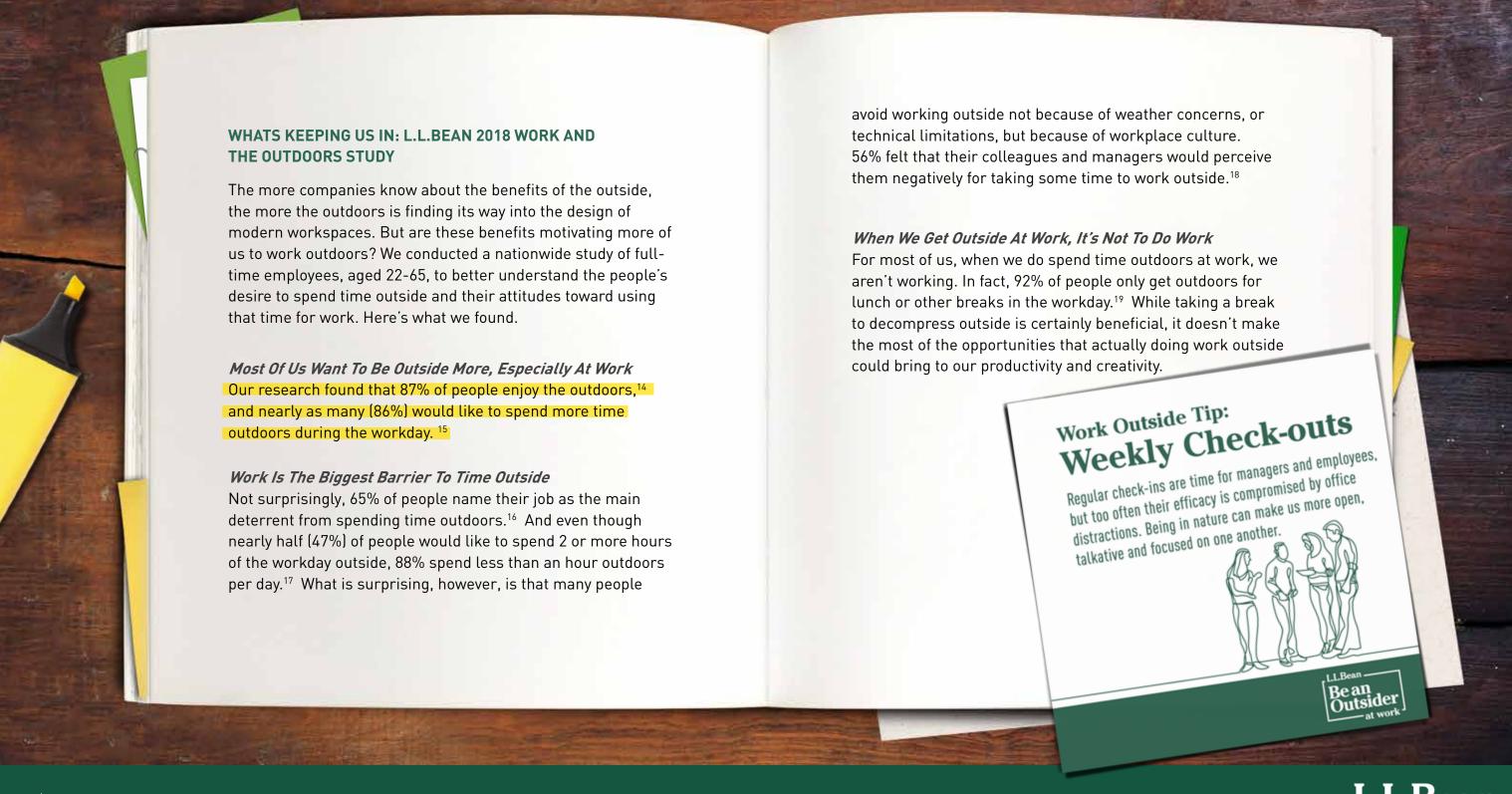
Today's innovation leaders are redefining the corporate campus with sprawling green spaces and access to nature as core design principles.

Amazon Spheres - Seattle, WA

To inspire employees to "think and work differently," Amazon took biophilic design to new heights. The company's Spheres complex in Seattle houses full-grown trees native to the rainforest and a four-story "living wall" of plants inside its 90-foot glass domes. Within the workspace, there are no cubicles, desks or offices, just open gathering spaces steeped in plant life and bathed in natural light. There's even a treehouse above the canopy. "It's a place to meet a colleague, bring a recruit, hold a team meeting," says lead horticulturalist Ron Gagliardo. 12









time to outthink the indoor office. OUTSIDE, WE'RE MORE PRODUCTIVE

Decades of research are making one thing very clear—being outside is very good for our physical and mental health. In the workplace, absenteeism, loss of focus and poor employee health are all major inhibitors to productivity. By working outside, even for short intervals, we could enhance our ability to work productively in a multitude of ways.

We Take Fewer Sick Days

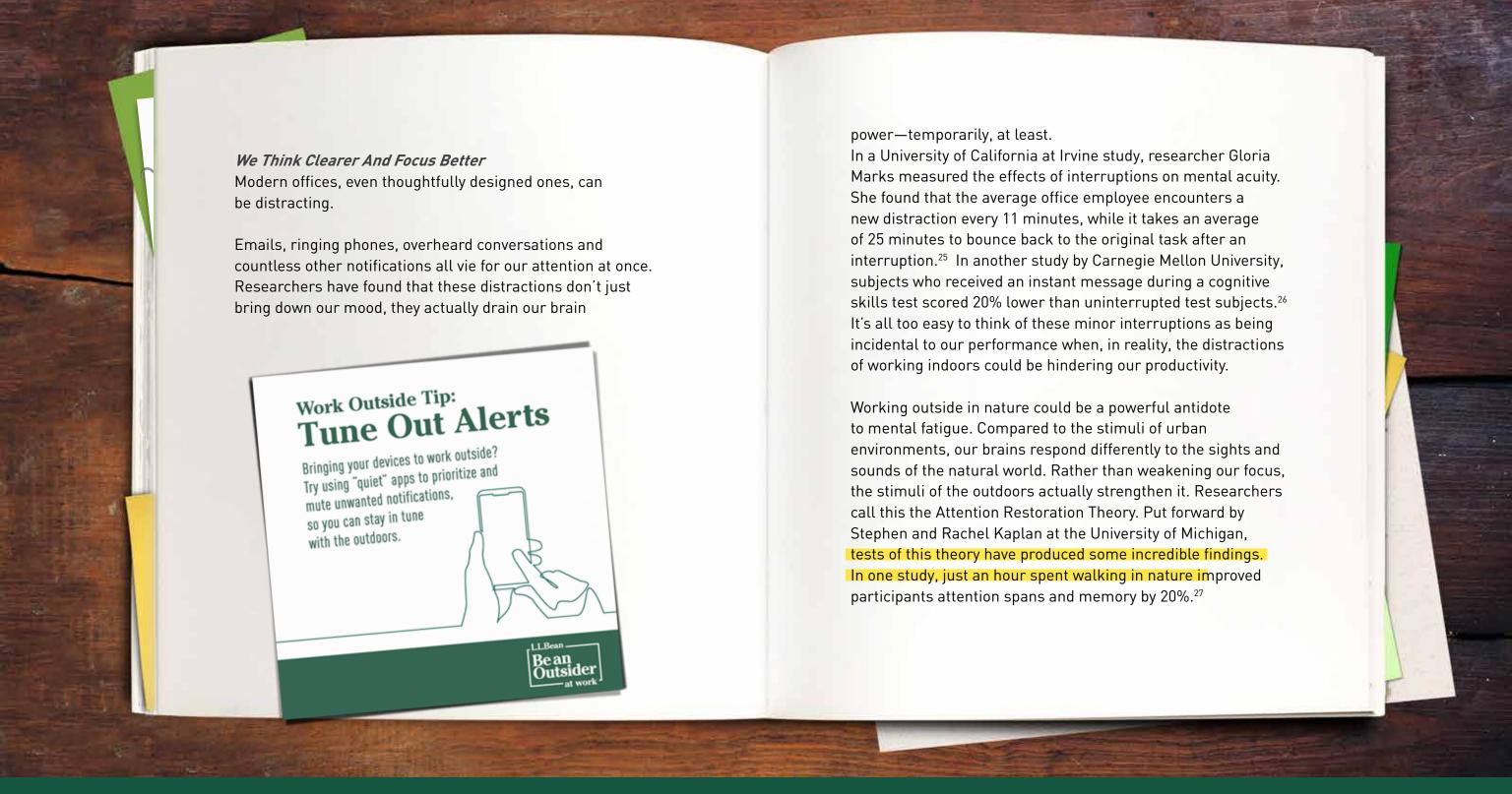
There is evidence that the simple act of being outside can lower our risk of illness and possibly even reverse the effects of disease. In Japan, the practice of "forest bathing," or taking immersive walks in nature, has been shown to reduce the blood glucose levels of diabetics by 39.7%, more than with indoor exercise. The same study also discovered that certain forest trees emit organic compounds called phytoncides, and inhaling these compounds has been proven to decrease

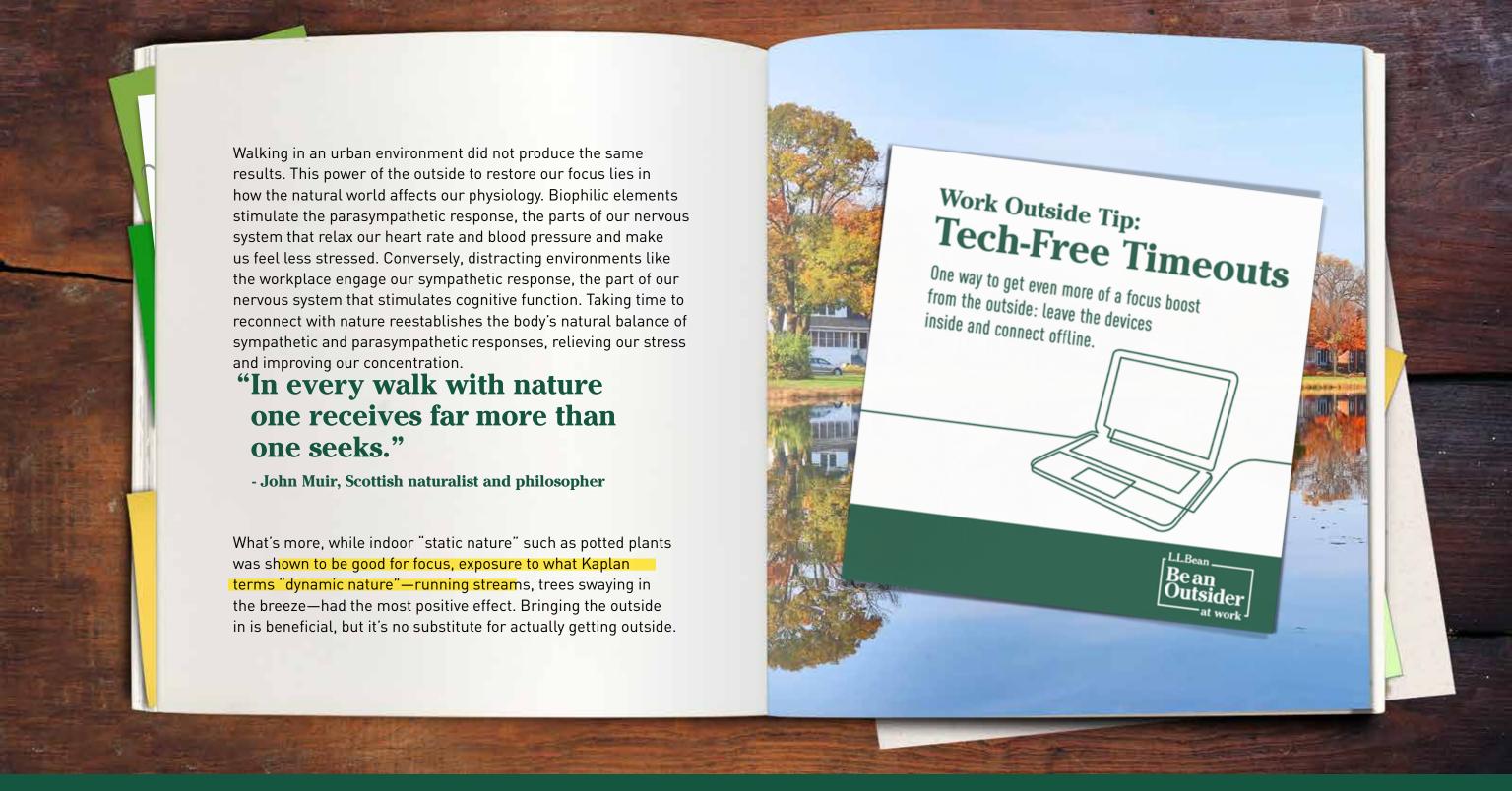
"We need the tonic of wildness."

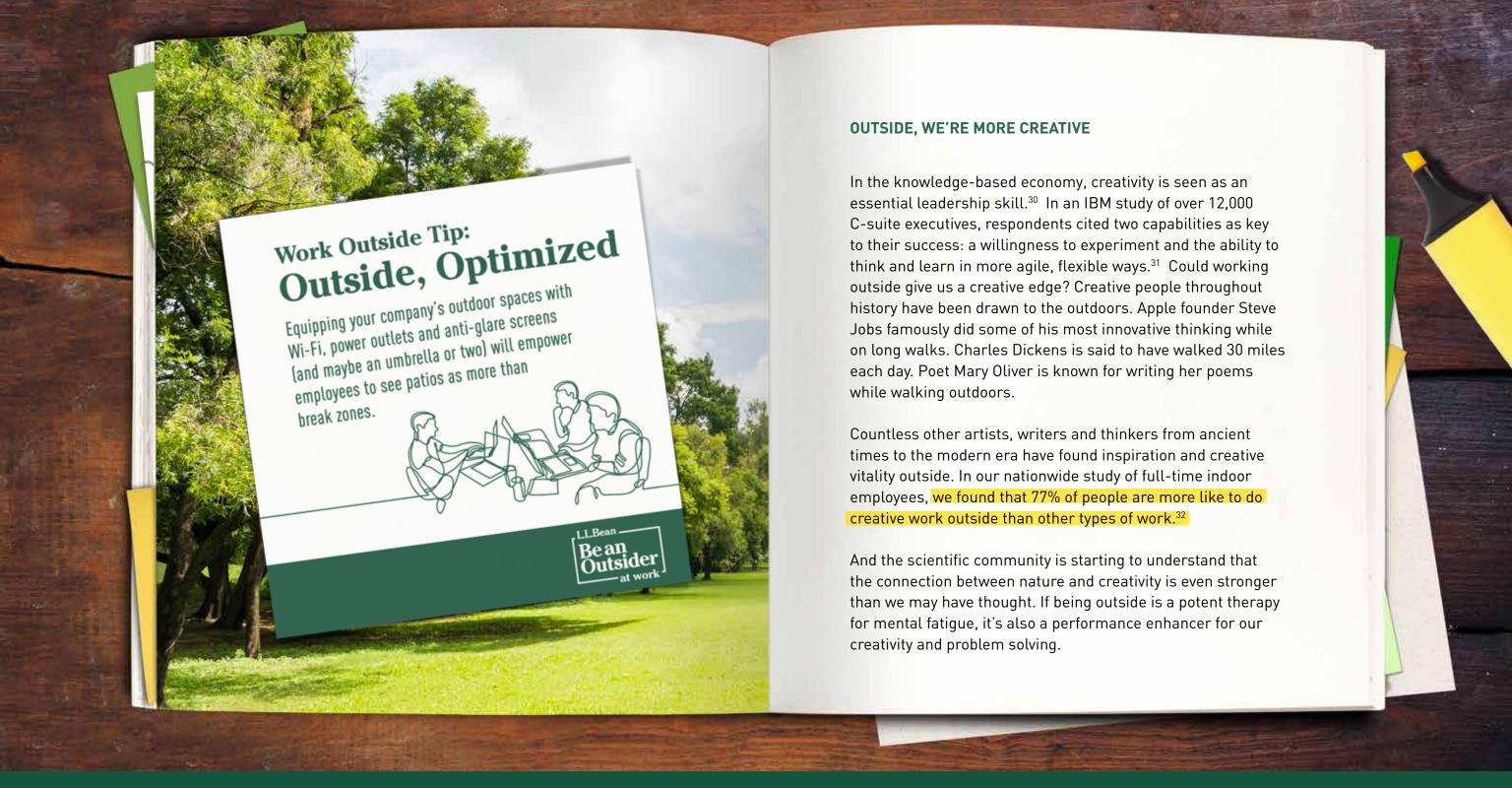
- Henry David Thoreau, American philosopher and poet

In light of these benefits, the Japanese government has endorsed the practice and developed 48 therapy trails throughout the country. At work, these physiological effects could have a major financial impact. According to 2010 US Department of Labor statistics, the annual absenteeism rate in the private sector is 3% per employee, which amounts to \$2,074 lost per employee per year due to workplace absences. 23

Being outside at work could reduce absenteeism significantly. In a study of employees at a University of Oregon office building, those with a view of trees and the natural landscape took roughly 15% less sick time per year than those with no view of nature.²⁴ If just having a view of the outside could have such an effect, it's easy to imagine how being fully immersed in the outside could make the sky the limit for our productivity.







We Have Better, Brighter Ideas. And More Of Them

In a groundbreaking study, Stanford University researchers Marily Oppezzo and Daniel Schwartz measured the effects of walking on problem solving and idea generation. Participants who walked on a treadmill indoors experienced a 60% increase in creative output, a dramatic surge in their ability to generate ideas. And, once the outside was factored into the experiment, creativity shot skyward. Of all the variables tested, walking outdoors "produced the most novel and highest quality" ideas, with 81% of participants experiencing enhanced creative thinking.³³

"Whoever you are, no matter how lonely, the world offers itself to your imagination, calls to you like the wild geese, harsh and exciting-over and over announcing your place in the family of things."

- Mary Oliver, American poet

Suddenly, the way most of us brainstorm—seated in conference rooms—doesn't seem like much of a storm at all. Could taking brainstorming and other creative work outside tap into a wellspring of unused creative potential? Would more of our bright ideas see the light of day if we did?

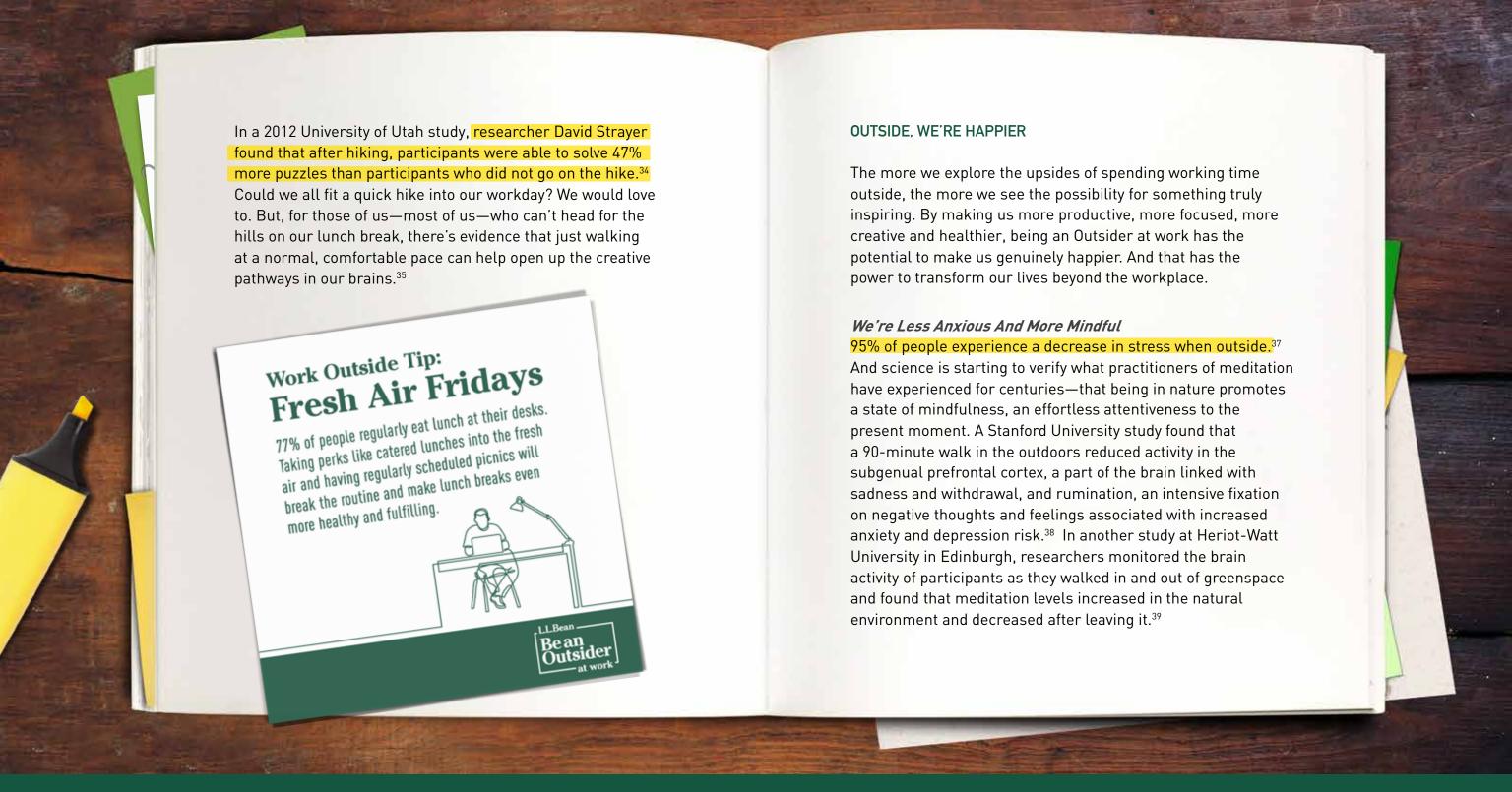
Work Outside Tip: Blue Sky Brainstorm

We generate more and better ideas outside. Try taking your brainstorm outdoors and watch the ideas pour forth.



We Solve Problems Better

Not everyone works in a creative field, and not every job requires the ability to generate large quantities of new, creative ideas. But most of us, in one way or another, need to solve problems at work. And, it turns out, being outside can also give our problem-solving skills a powerful boost.



"Mindfulness at work doesn't just have the potential to make us better at our jobs, it can make us kinder and more thoughtful with our colleagues."

- Leigh Stringer, workplace expert and bestselling author

There's even evidence that getting outside can help us have deeper, more restful sleep cycles,⁴⁰ and this has been shown to lower stress and reduce our risk of illness. It seems that while nature can ignite our imaginations and supercharge our cognition, its stress-relieving properties can also brighten our mood and help us find our flow.

We Feel More Connected To Each Other

It's simple, but fundamental: nature is beautiful. And many of us go outside to share the experience of that beauty with others. Now, scientists are finding that the beauty of the outdoors can influence us to be more generous, trusting and open to human connection.

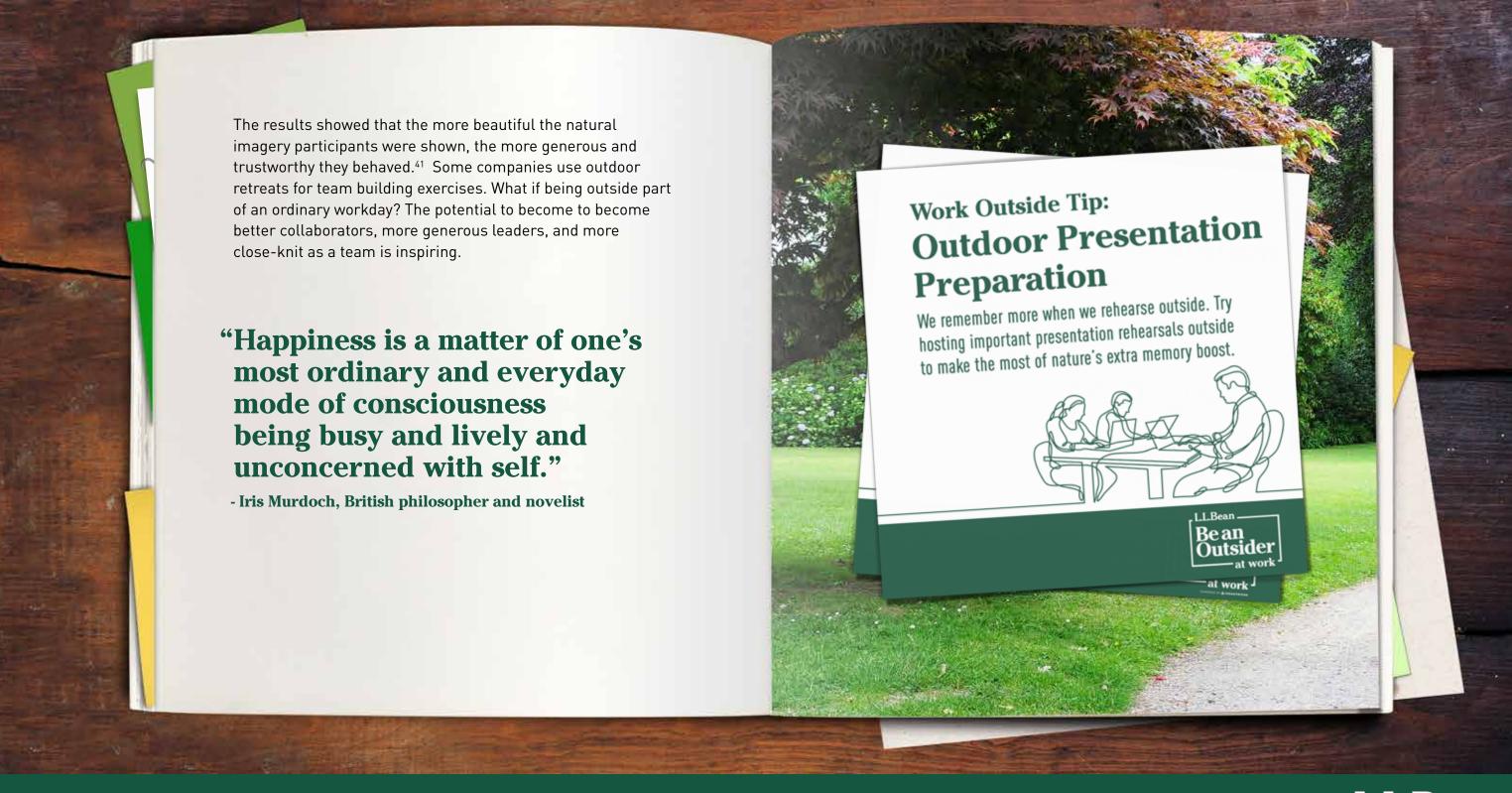
In a study at the University of California at Berkeley, researchers observed the impact of natural beauty on participants prosocial behavior, behavior that benefits others. After viewing scenes of nature, participants played two games, the Dictator Game and the Trust Game, designed to measure generosity and trustworthiness.

Work Outside Tip: Brainwrite Outside

"Brainwriting" is a rapid idea generation technique where participants rewrite and add to each other's ideas. Pair it with the brain boost of the outside, and your next brainstorm could become a downpour.

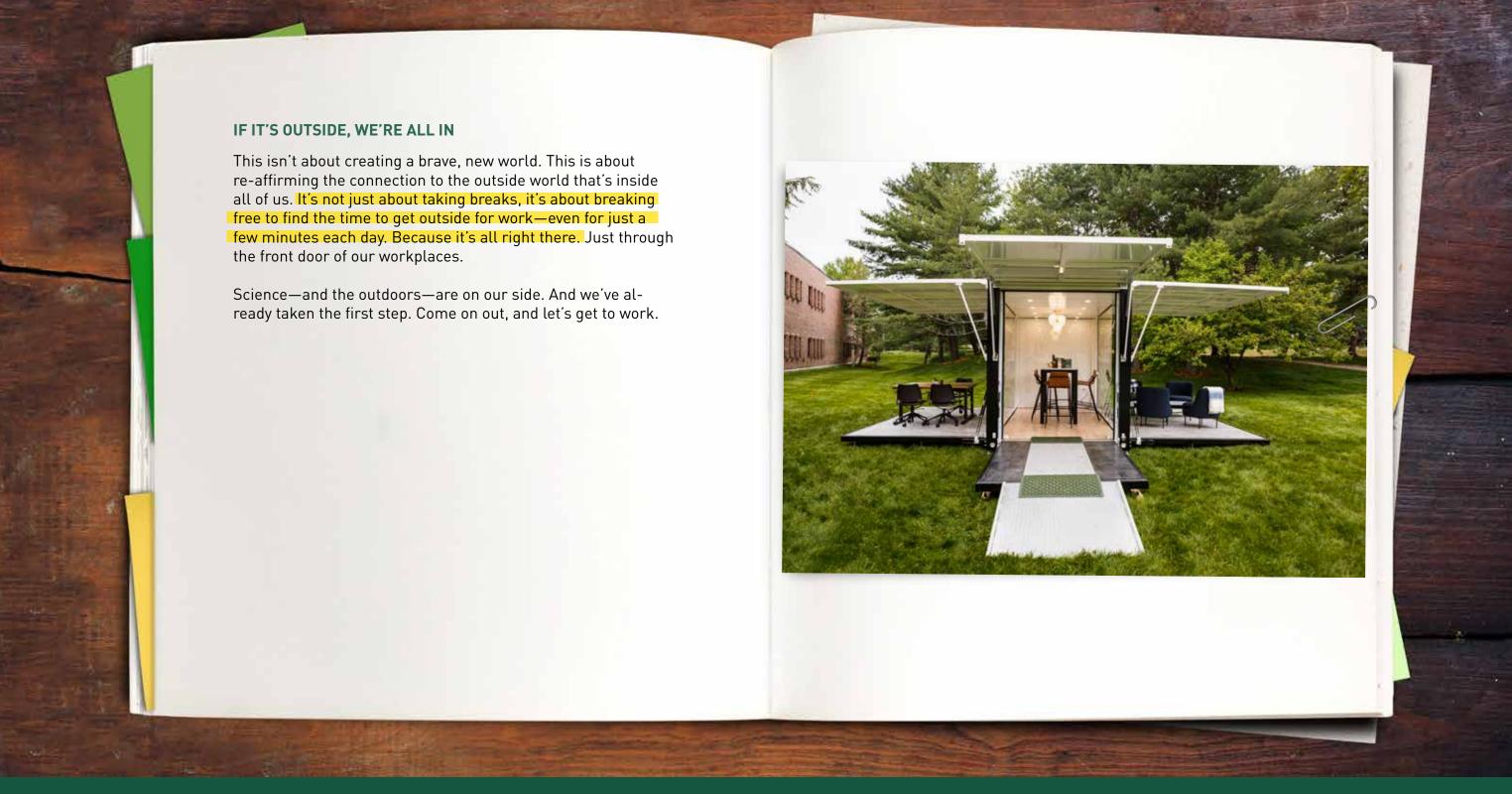












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