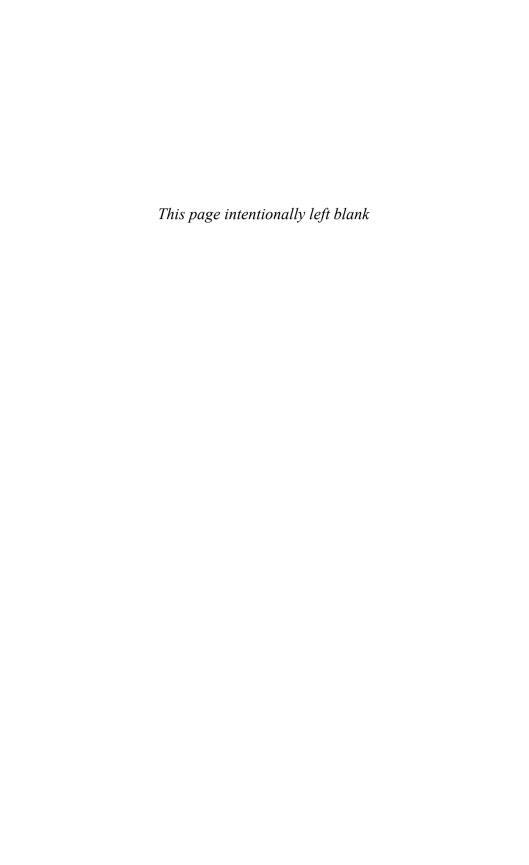




Peopleware Third Edition



Peopleware

Productive Projects and Teams

Third Edition

Tom DeMarco Timothy Lister

★Addison-Wesley

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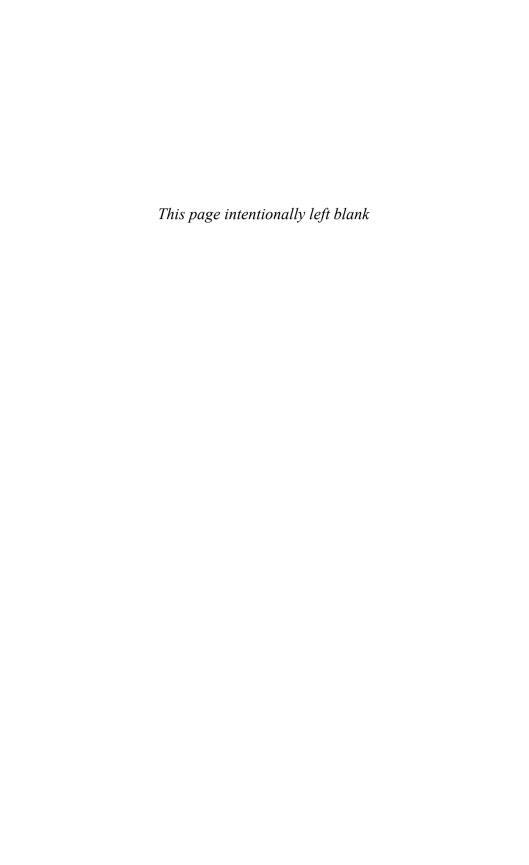
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The Great Oz has spoken.
Pay no attention to that man behind the curtain.
The Great Oz has spoken.
—The Wizard of Oz

To all our friends and colleagues who have shown us how to pay no attention to the man behind the curtain.



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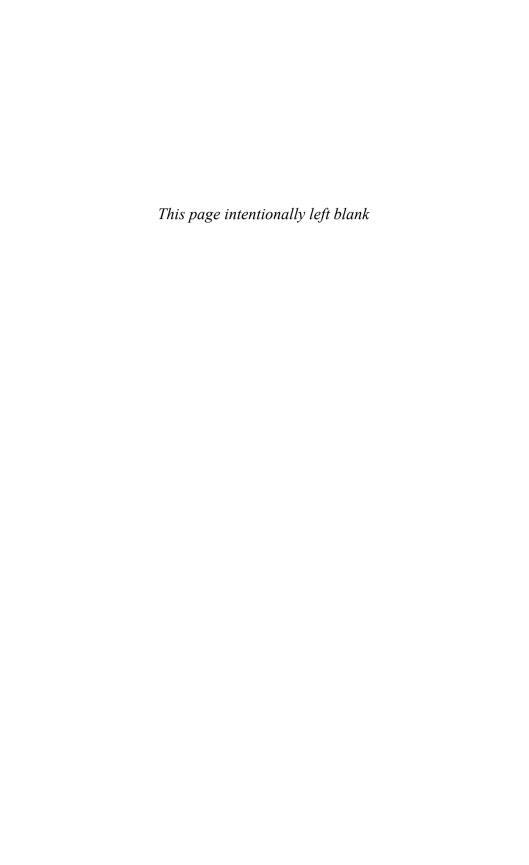
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Preface

What we have come to think of as the Peopleware project began for us during the course of a long night flight over the Pacific more than thirty years ago. We were flying together from L.A. to Sydney to teach our Software Engineering Lectures series. Unable to sleep, we gabbed through the night about the deep complexities we were encountering in systems projects of our own and the ones related to us by our clients. One of us—neither one can remember which it was—reflected back over what we'd been discussing and offered this summing up: "Maybe . . . the major problems of systems work are not so much technological as sociological."

It took a while for that to sink in because it was so contrary to what had been our thinking before. We, along with nearly everyone else involved in the high-tech endeavors, were convinced that technology was all, that whatever your problems were, there had to be a better technology solution to them. But if what you were up against was inherently *sociological*, better technology seemed unlikely to be much help. If a group of people who had to work together didn't trust each other, for example, no nifty software package or gizmo was going to make a difference.

Once the idea was out in the open, we began to think up examples, and it soon became clear to both of us that the social complexities on most of the projects we'd known simply dwarfed any real technological challenges that the projects had had to deal with. And then, inevitably, we needed to face up to something far more upsetting: While we had probably known in our bones for a long time that sociology mattered more than technology, *neither of us had ever managed that way*. Yes, we had done things from time to time that helped teams work better together or that relaxed group tensions, but those things had never seemed like the essence of our work.

How would we have managed differently if we'd realized earlier that the human side mattered much more than the tech side? We started making lists. We had blank acetates and foil pens handy, and so we put some of the lists onto overhead slides and thought giddily of actually presenting some of these ideas to our Sydney audience. What the hell! Sydney was half a globe away from the States and Europe; if we bombed in Australia, who would ever know of it back home?

Our Sydney audience the next week was immediately engaged by the peopleware material, and a bit chagrined (evidently we weren't the only ones who had been managing as if only the technology really mattered). Best of all, people chimed in with lots of examples of their own, which we cheerfully appropriated.

What separated that early out-of-town tryout from the first edition of the book in 1987 was a ton of work conducting surveys and performing empirical studies to confirm what had been only suspicions about the effects of the environment (Part II of this third edition) and to validate some of our more radical suggestions about team dynamics and communication (most of the rest of the book).

Peopleware in its first two editions made us a kind of clearinghouse for ideas about the human side of technology projects, and so our thinking has had to expand to keep up. New sections in this third edition treat some pathologies of leadership that hadn't been judged pathological before, an evolving culture of meetings, hybrid teams made up of people from seemingly incompatible generations, and a growing awareness that, even now, some of our most common tools are more like anchors than propellers.

For this third edition, we are indebted to Wendy Eakin of Dorset House and Peter Gordon of Addison-Wesley for editing and shaping our manuscript. Thanks, too, to our long-time colleagues at The Atlantic Systems Guild—Peter Hruschka, Steve McMenamin, and James and Suzanne Robertson—for thirty years of ideas, brainstorms, debates, meals, and friendship.

-Tom DeMarco Camden, Maine

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February 2013

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Tom DeMarco and Timothy Lister are principals of The Atlantic Systems Guild (www.systemsguild.com), a consulting firm specializing in the complex processes of system building, with particular emphasis on the human dimension. Together, they have lectured, written, and consulted internationally since 1979 on management, estimating, productivity, and corporate culture.



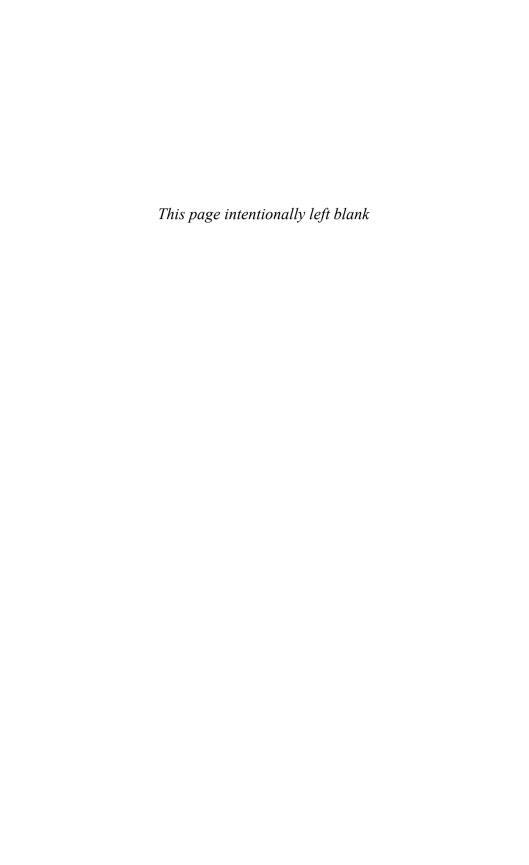
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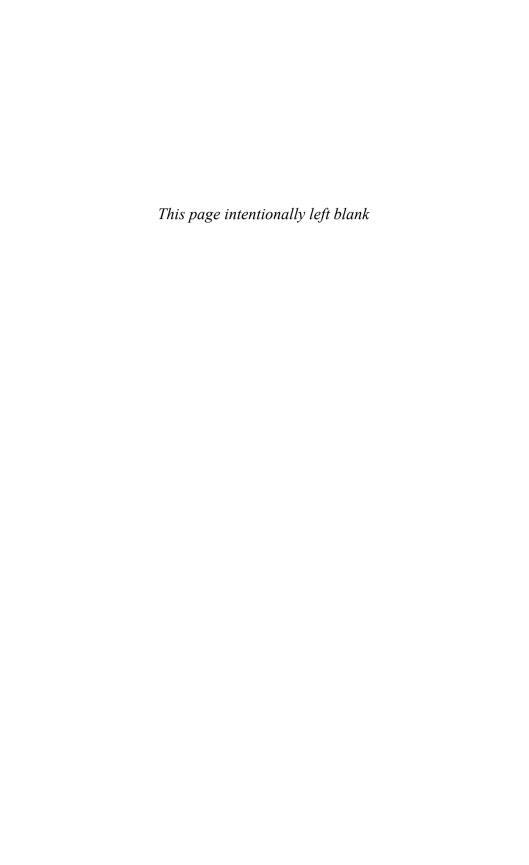
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Photo of Timothy Lister by James Robertson

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Let's Talk about Leadership

eadership on the job is rare, but talk about it is ubiquitous. Companies talk about it all the time.

The talk is usually about the adroit exercise of organizational power to accomplish a given end. It's managers who lead. Managers are sent off to leadership training to enable them to better use their authority to direct those who work for them. In this view, leadership is something that happens *down* the hierarchy—leaders at the top, followers at the bottom. You are led by the person who is above you on the org. chart and you lead those whose boxes on the chart lie under yours with lines directly down from your box.

Leadership as a Work-Extraction Mechanism

One of those dreadful "motivational" posters tells us, "The speed of the leader sets the rate of the pack." This kind of leadership is a work-extraction mechanism. Its purpose is to enhance not the *quality* of the experience but the *quantity*. The reason you are being led is to get you to work harder, stay longer, and stop goofing off.

During the early part of the First World War, a young Russian journalist named Lev Davidovich Bronstein wrote home from the front with some observations about leadership. His letters might have been lost, but since he later became the revolutionary Trotsky, they are preserved. In one letter he observes that unless they are given side arms, the junior officers will be completely unable to lead their men into battle. Using a gun to lead means you have to "lead" from behind. This is what work-extraction leadership is all about. The gun, in the workplace, is replaced with delegated authority and positional power.

Leadership as a Service

But the best leadership—the kind that people can mention only with evident emotion and deep respect—is most often exercised by people without positional power. It happens outside the official hierarchy of delegated authority.

When I'm on my home turf, I play tennis two or three times a week in groups organized by a charming fellow named Mike. Mike is our leader. It's Mike who decides the matchups: who plays with whom and against whom. He's the one who shuffles the players (16 of us on four courts) after each set so we all have different partners for all three sets. He invariably makes good pairings so that near the end of a half hour you can look across the courts and see four scores like 5 to 4, 6 to 6, 7 to 6, and 5 to 5. He has a great booming voice, easy to hear even when he is three courts away. He sets the meeting times, negotiates the schedules for court time, and makes sure there are subs for anyone who needs to be away. Nobody gave Mike the job of leading the group; he just stepped up and took it. His leadership is uncontested; the rest of us are just in awe of our good fortune that he leads us as he does. He gets nothing for it except our gratitude and esteem.

-TDM

In this example, leadership is not about extracting anything from us; it's about service. The leadership that the Mikes of the world provide enables their endeavors to go forth. While they sometimes set explicit directions, their main role is that of a catalyst, not a director. They make it possible for the magic to happen.

In order to lead without positional authority—without anyone ever appointing you leader—you have to do what Mike does:

- Step up to the task.
- Be evidently fit for the task.
- Prepare for the task by doing the required homework ahead of time.
- Maximize value to everyone.
- Do it all with humor and obvious goodwill.

It also helps to have charisma.

Leadership and Innovation

The propensity to lead without being given the authority to do so is what, in organizations, distinguishes people that can innovate and break free of the constraints that limit their competitors. Innovation is all about leadership, and leadership is all about innovation. The rarity of the one is a direct result of the rarity of the other.

Innovation is a subject whose talk:do ratio is even more out of whack than that of leadership. Upper management in most companies talks a good game on innovation. The party line goes something like this: "We need innovation to survive. It is so important. Its importance simply cannot be overstated. No sir. Innovation is reeealy, reeealy important. And innovation is everybody's job. In fact, it is probably the most important part of everybody's job. Listen up, everybody: Get out there and innovate." Oh, and by the way,

- Nobody is given any time to innovate, since everyone is 100-percent busy.
- Most innovation that happens anyway is distinctly unwelcome because it requires accommodating change.
- Real innovation is likely to spread beyond the realm of the innovator, and so he or she may be suspected of managing the organization from below, a tendency that upper management tends to view with great suspicion.

The net here is that it takes a bit of a rebel to help even the best innovation achieve its promise: rebel leadership. The innovator himself doesn't have to be a great leader, but someone has to be. What rebel leadership supplies to this process is the time to innovate—you take a key person away from doing billable work (this may constitute constructive disobedience on your part) in order to pursue a nascent vision—and the hard push for whatever reshaping the organization has to submit to in order to take advantage of the innovation.

Since nobody ever knows how the next innovation may alter the organization, nobody knows enough to give permission to the key instigators to do what needs to be done. That's why leadership as a service almost always operates without official permission.

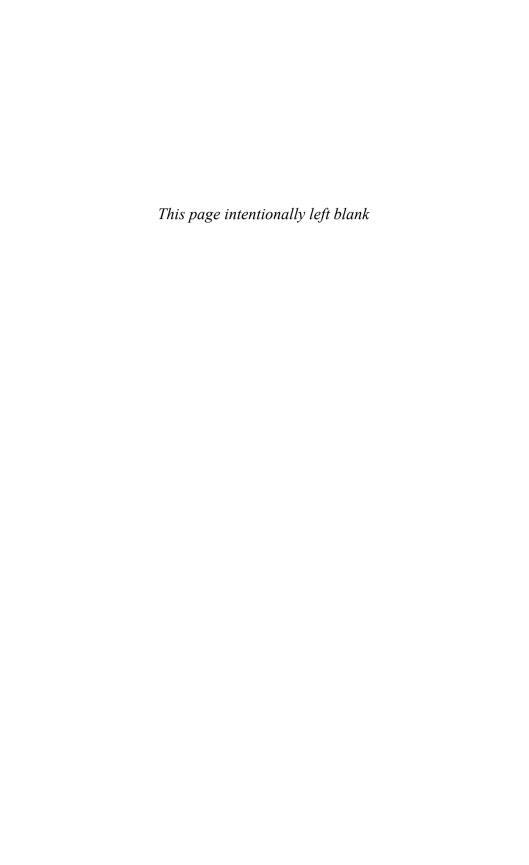
Leadership: The Talk and the Do

At a recent Broadway performance of Arthur Miller's *Death of a Salesman*, I was struck by a line that comes near the end of the final act. The protagonist, Willy Loman, approaches his well-to-do neighbor, Charley, to ask for yet another small loan. The sad contrast between Charley's fortunes and Willy's own failure is reflected in their sons: Willy's son Biff has gone badly downhill, while Charley's son, Bernard, has become a successful lawyer. Charley makes the loan and tells Willy proudly that Bernard is off to Washington, D.C., to argue a case before the Supreme Court. Imagine that, the United States Supreme Court.

"The Supreme Court!" Willy says. "And he didn't even mention it!"
"He don't have to—" Charley replies, "he's gonna do it."

-TRL

If companies were more inclined to let leadership arise naturally, they wouldn't need to produce so much hot air talking about it.



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