

THE CONSULTANTS HANDBOOK PART 7: SHOW YOUR CUSTOMER THAT YOU ARE THE SMART GUY Geek and Poke (http://geekandpoke.typepad.com). Courtesy of Oliver Widder. Used with permission.

In 1950 Eiji Toyoda — cousin of Toyota Motor Corporation founder Kiichiro Toyoda — visited the Ford Rouge plant in Michigan. At the time Toyota had produced 2,685 cars in its entire 13-year history, while Ford produced 7,000 *a day* (Ensici, 2006). He came to see how Ford mass produced cars, in hopes of taking some new ideas back to apply to Toyota's operations.

In the Ford plant, Toyoda saw that the sheet metal parts needed for car assembly were produced using an expensive die stamping system that produced massive quantities of parts, which were stored in warehouses until needed on the assembly line. When the system produced parts with defects, they were set aside to be repaired later, adding more time and expense to

the manufacturing process (Ensici, 2006). Toyota didn't have enough money to maintain a system this complex and Toyoda felt it could be made more efficient, so he enlisted the help of Taiichi Ohno, an engineer and machine shop supervisor whose work is now recognized as critical to developing the processes that anchor the famous Toyota Production System (Toyota Motor Manufacturing Kentucky, 2006).

It was on this assignment that Ohno made some critically important discoveries about the role of community and collaboration in improving manufacturing. He concluded that it was better to produce small batches of parts — just enough to cover assembly line needs for the day — because it eliminated storage costs and allowed workers to find and correct defects faster.

But to make this system work at all (a system that ideally produced two hours or less of inventory), Ohno needed both an extremely skilled and highly motivated work force. If workers failed to anticipate problems before they occurred and didn't take the initiative to devise solutions, the work of the whole factory could easily come to a halt. Holding back knowledge and effort — repeatedly noted by industrial sociologists as a salient feature of mass production systems — would swiftly lead to disaster in the Toyota plant (Ensici, 2006).

Ohno's solution was to create small groups of workers, and have them work collaboratively to find the best way to work on their assigned part of the assembly. Instead of the hierarchical system used in mass production where only the foreman had control, each worker was given the power and responsibility to stop the production line if an error was found.

By rapidly eliminating the source of the problem, errors did not propagate and multiply through the system as cars moved down the assembly line. In comparison with mass production, as a team of workers becomes more and more accustomed to lean production, the amount of rework required is slashed dramatically (Ensici, 2006).

So why is this story relevant almost sixty years later? What Toyoda and Ohno did all those years ago transformed Toyota from a small, local automaker into an industry legend that has dominated the global auto industry for decades. By creating a system where every worker had the power to stop the assembly line if they found a problem, the system instilled greater individual responsibility, and gave workers a more direct stake in the success of their work. But even more importantly, the system relied on collaboration among small groups of people to find the best way to do the job, and this is profoundly important.

Instead of giving people a job, and trying to control how they work, it's better to let go: give them the job, and let them figure out the best way to do it.

That's the principle that guided Ohno and Toyoda, and it's the same principle that guides wiki use.

The outcome is what matters, not the method. Not only is the end result better, but it's not just a flash in the pan. It's something sustainable. And isn't that what every organization wants?

When groups work together to find the best way to get a job done, the high quality of work is sustainable because they're finding out the best about themselves, combining individual complimentary strengths and talents, and refining their methods at a very high level. Because they control how they work, people are more self-reflective, constructively critical of their own work, and motivated to make the best contribution possible because they take greater pride in the quality of their work.

So what's the problem?

Collaboration is more important than ever to the success of organizations, growth of economies, and solving some of society's most complex problems, but the knowledge tools in use today fall short of these goals because they don't let groups efficiently work together, are too structured, and are built around a hierarchical, command-and-control structure.

Take email, for example. It's the most ubiquitous tool in organizations, and is often used to send a document around to a group for collaborative editing. Because the document is sent as an attachment, each person makes changes to a separate copy of the document, which means that at some point some really tedious work is required to assemble all the separate edits into one copy of the document. Never mind the mechanical issues; just think of the political issues that can arise if people have differing viewpoints.

Also, errors made by one person might propagate in a document that's emailed around to each collaborator, and might not get fixed until the person who has to combine edits either finds the errors or is made aware of them. Worse yet, the errors might get fixed in some copies, but not others.

This is a nightmare that happens every day in organizations, and the deeper effect is it drives people apart. There's more incentive to dig in your heels and fight for your viewpoint to be preserved in a document you edited in isolation, and so groups have a much harder time achieving cohesion and a strong mutual desire to produce the highest quality work.

## Wiki?

Unlike email, which "pushes" discrete copies of the same information to each person, and then requires that the separate revisions be somehow combined, wiki "pulls" people together to work on the same text. Instead of separate

copies for each person, everyone looks at the same text on a page, and can immediately make changes directly on that page. Everyone else can see those changes as soon as they're made, which allows each person to better take others' contributions into account as they edit. It also means that information gets created faster because the technical barriers — such as downloading an attachment, opening it (and having the right software to do so!), and then reattaching it to email and sending it on to other collaborators — are minimized.

Errors can be fixed immediately by anyone who notices them, and differing viewpoints can be worked out in a more natural manner. People can work together to reach a balance of viewpoints through a dialog that takes place as they edit, instead of putting forth versions that each feels is final.

The wiki is rapidly growing in name recognition and use in organizations because its simple design and function enables equal participation by people at all levels of technology knowledge and savvy. On top of that, it has an unprecedented ability to adapt to different uses, bring people together and strengthen teams, and promote a collaborative approach to problems.

A wiki is simply a website in which users can create and collaboratively edit pages, and easily link them together. The basic idea behind a wiki is that anyone who can view a page can just as easily edit it and save his or her changes. Enterprise wikis build on the basic wiki idea by including certain functionality that meets the needs of organizations, such as the ability to easily create and manage many individual wiki sites for teams, projects, and departments. Enterprise wikis also include strict security to protect confidential information, fine-grained permissions so that people can be given access to appropriate spaces and pages, and can be tied to other enterprise services via LDAP authentication and single sign-on. These features enable the wiki to mimic the existing social and organizational patterns in departments, teams and projects.

The first wiki, WikiWikiweb (http://c2.com/cgi/wiki?WelcomeVisitors), was created in 1995 by Ward Cunningham to document and collaboratively update information on software design patterns. Since then, wiki has grown steadily into one of the most important tools in today's enterprise, and has become a fixture in popular culture thanks to the rapid rise and increasing influence of Wikipedia. It's commonly thought of today as a so-called Web 2.0 tool because of its proximity to blogs and social networks, but this is primarily because its popularity and name recognition has taken off in tandem with the Web 2.0 phenomenon.

Wiki is the Hawaiian word for quick. According to Cunningham, he chose the words Wiki Wiki, or Wiki (short version), to describe this new tool after remembering that a counter agent at Honolulu International Airport had directed him to take the Wiki Wiki bus to travel between airport terminals, and had explained that wiki is the word meaning "quick" in Hawaiian (Cunningham, 2005). According to Cunningham in 2005, "I wanted an unusual word to name what was an unusual technology. I was not trying to duplicate any existing medium, like mail, so I didn't want a name like electronic mail (email) for my work."

What makes a wiki unique is that it enables multiple people to see and collaboratively edit the same document, in the same "place." Here's where the wiki really resembles that Hawaiian bus service it was named for. People can easily come and go — some might make a small edit which is akin to riding the bus route for just one or two stops, while others might create new pages or make significant contributions and revisions to an existing one, much like traveling the entire route on the bus. The wiki, like the bus itself, enables people to inhabit the same space, namely the page, and see the same thing, namely the text they are all editing, at the same time.

The previous example demonstrates the power of the wiki to make collaboration more inclusive and knowledge construction efficient, distributed, and fast. If you think about this visually, the email/attached document scenario has limited periods of creativity separated by the logistical and socially sensitive task of combining edits. The wiki completely changes this by shifting logistics to the shortest possible segment of time at the outset, leaving a much greater period of time for collaborative creativity and knowledge construction.

## **The Wikipedia Factor**

The Web is becoming a place for the collaborative construction of information on an incredible scale, and the wiki is at the center of this transformation. Almost anyone you meet has heard of Wikipedia, and people are increasingly seeing how the wiki combines simplicity and power in a radically different, paradigm shifting way. In fact, I might venture to say that the wiki is the most significant development on the Internet since the web browser. Where the web browser enabled people to access online information in a radically different and better way that sparked the widespread growth of the Internet, the wiki enables people to directly and easily edit information in a way that encourages increasing participation and exponentially faster growth of online information. In essence, we are moving from passive readers to active participants.

For many people, the first exposure to a wiki is Wikipedia and at times this creates misconceptions about what a wiki is and how it can be used. One common misconception is that it can only be used as an encyclopedia. There's a major fear about privacy of information, or the perceived lack thereof in wikis, because Wikipedia is a completely open wiki where anyone can see any page, even without logging in. Security and integrity of information is another

big concern. Because Wikipedia resides on the open Web, people assume that if they used a wiki for internal collaboration anyone could change the information on any page, even if their edits result in inaccurate or completely erroneous information. The reality is quite different when a wiki is used inside an organization, and we'll explore these issues in the next chapter.

## You Can Do It!

To successfully grow your wiki into a collaboration and knowledge hub in your organization, the best way to start is with a grassroots, or bottom-up, strategy. The success of a wiki depends on building active, sustainable participation and this happens only when people see that the software is simple enough to be immediately useful, and meets their needs without requiring them to spend lots of extra time learning and using it.

Suw Charman advocates for the same approach and in "An adoption strategy for social software in the enterprise," she makes the point that grassroots adoption is better than mandated adoption in the long run because mandated adoption can slow down, "if the team leader stops actively making subordinates use the software." This is absolutely true, and is one of the major reasons other enterprise content management and knowledge management tools have failed. We'll look at this in more depth in Chapter 3.

To start grassroots adoption, the best approach is to start with a pilot in which a set of groups is given early access to the wiki to start building their collaborative spaces. Along the way, their use can be advised and nurtured by a WikiChampion to help them make it as successful as possible, and this process can be documented to show future users the benefits of wiki use.

If you're the WikiChampion, congratulations! You're the most important person to the wiki, and have the most impact on its future within your organization, especially at the early stages when it's essential to convince people to try it. Encouraging others to do so will give the wiki its first chance to prove itself, and they'll have the greatest probability of success if you encourage the right patterns of behavior and content creation.

## Unleash the Early Adopters

Put a wiki into your environment, and you'll probably only have to ask others to use it once (maybe twice). After getting the hang of it and finding that it becomes essential to their work, users become the new wiki coordinators themselves. Often they'll do your asking for you by asking their peers to participate, too. Volunteers are your champions; you just need to give them a nudge! A wiki has the best probability of success when it gains grassroots support, and people respond well when they see peers actively using and evangelizing it. Don't mandate wiki use; make it available, and then let people find where it's most useful to their work. If they find a new way of doing something, embrace it with an open mind. It may just be an incredibly valuable improvement.

Let people find their natural roles. Some may be interested in gardening the wiki, that is, maintaining and organizing the site; others may want to help grow its use. By letting people lead wiki growth and feel a genuine sense of ownership over their work, you lay the foundation for it to become a successful collaboration tool.

## Move Swiftly and with Purpose, but Don't Rush It

One of the biggest mistakes an organization can make is to ignore the new generation of collaboration and its value, but an equally dangerous mistake is to rush into things and forget to give people time to adjust to the new ways of working with tools like wikis. It takes time to gather content that's spread around in disparate places and gradually move it to a wiki, and simultaneously shift existing practices like collaboration over email to wiki-based collaboration.

Be patient when you introduce a wiki to your organization. Some of the payoff won't be immediately apparent because it takes time for people to change the way they work, so it's more important at the beginning to focus on getting broad support and organic growth from all across the organization. Once people see that wiki collaboration actually replaces less effective uses of other forms of communication, such as trying to collaboratively edit a document via email, and gets things done faster, growth will follow.

Using a wiki doesn't mean you have to abandon the tools you're already using. Trying to replace everything else too quickly with the wiki might lead to its downfall if it's not the right solution. It takes time for people to get used to the wiki and find the best uses for it, so when you make it available let it work alongside everything else. Find ways to blend it with what you currently do (for example, some tools let you subscribe to an RSS feed or email update on changes to the wiki), and it won't feel like yet another thing clamoring for your attention.

## It Doesn't Matter Where You Are

At Atlassian, the company that develops the Confluence wiki (and where I work as Wiki Evangelist), we have offices in Sydney, San Francisco, and Kuala Lumpur, and one wiki for everyone. This makes it easier to put information in one place where everyone has access and the ability to offer input. For a global

company, we're all in close touch and able to communicate, make decisions, and work across these great distances very quickly.

The general idea here is that no matter where in the world you're based, the wiki doesn't just have to be used by people in close proximity to each other — it can bring those who are far away much closer together, to everyone's benefit.

## Listen

Most enterprise collaboration and knowledge management software is geared to perform only the functions necessary to the bottom line. This makes it attractive to the "bean-counters" who hold the purse strings, but not to the people who will actually use it. Here, again, the wiki is different because of the absence of rigid structure — besides just having wiki pages for projects, meetings, and so on, people can also have pages for personal profiles, blogs, and even to organize a lunch outing! These pages are a gold mine for people's ideas, opinions, and progress on their work. You'll probably be better informed about your people and projects than ever before, and you can offer feedback, which shows them you're listening and taking them seriously.

Furthermore, profile pages can be useful as a standard place to find contact information, people's biographies (for leadership and public facing employees, this is a great way to always have the most up-to-date bios for trade publications, conferences, and so on), and can be a great place for them to keep links to the project pages they're working on.

## **Be Open Minded**

Renegade thinking is critical to success, but most often the tools an organization selects can spur or damper thinking. The wiki allows for informal, unstructured collaboration, where right-brain thinking thrives. It does away with the rigid structure in a lot of other collaboration and knowledge management tools, and lets people use it as they see fit. There's room for greater innovation, and if the wiki is brought in by renegades, then it's very likely that its success will have much to do with their enthusiasm for it.

In the same way that a wiki is the means to collaboration, it could also be viewed as the product of collaboration. What about using a wiki as your website? The point being, what a wiki is and how it's used are as much about breaking the rules as it is defining new rules. In fact, this is where the wiki has the potential to have the greatest impact on your organization. When people are given the flexibility to approach how they work as much as they simply approach their work itself, they're likely to find new and better ways to work and these should be rewarded, encouraged, and allowed to spread throughout your organization.

## Become Better at What You Do

Alan Kay, the visionary genius behind the graphical user interface, smalltalk programming language, and ARPANET — the predecessor of the Internet — was recently interviewed by *CIO Insight* magazine. In the interview, he discusses what isn't right about personal computing and how we should change our thinking for the next generation of computing. From the interview, entitled "Alan Kay: The PC Must be Revamped — Now":

"Engelbart, right from his very first proposal to ARPA (Advanced Research Projects Agency), said that when adults accomplish something that's important, they almost always do it through some sort of group activity. If computing was going to amount to anything, it should be an amplifier of the collective intelligence of groups. But Engelbart pointed out that most organizations don't really know what they know, and are poor at transmitting new ideas and new plans in a way that's understandable. Organizations are mostly organized around their current goals. Some organizations have a part that tries to improve the process for attaining current goals. But very few organizations improve the process of figuring out what the goals should be'' (Alter, 2007).

As I read this, I realized that it's a brilliant argument for why the wiki can be a vital tool for organizations. Because it doesn't define the terms of interaction and collaboration from the outset, and allows structure to be created, modified and removed as needed, the wiki quickly becomes a desirable tool because it "learns" how people work *as* they work, not after the fact. This means it captures more of the actual process, giving them an opportunity to regularly look at how they collaborate, even during a current project.

Think how much more productive a group can be if it sees where it's weak during a project and can correct that weakness on the spot. Now imagine how much more productive an entire organization can become if every group is doing this. Toyoda and Ohno realized this, and didn't just look at how things fit into the assembly line, but thought in terms of the whole strategy. That enabled them to create a whole new way of working that engaged employees, involved their thinking skills instead of just their manual labor skills, and resulted in stronger employee loyalty, lower storage and repair costs, and some of the best products in their industry. You can do the same for the knowledge in your organization using wiki collaboration — that's the promise of collective intelligence realized!

## Wiki Patterns and Wikipatterns.com

Human behavior is pattern-based, and wikis are designed to support the patterns of activity that occur when groups work together. Therefore, there's

no right or wrong way to use a wiki, so it's impossible to write a recipe for successful wiki use that will work in all cases. Instead, documenting the behaviors seen on different wikis and classifying those that help the wiki effort as patterns, and those that hinder the wiki as anti-patterns is a more useful way to offer guidance to other wiki users.

That's why we created Wikipatterns.com. Launched in February 2007, Wikipatterns.com (Figure 1-1) is intended to give anyone, anywhere, using any wiki software, a collection of these patterns that they can use to ensure the greatest probability of success when introducing a wiki to their organization.

It's organized around two major strands of content. The people patterns and anti-patterns (Figure 1-2) describe the various ways people interact with the wiki, and the patterns detail roles that can be introduced to help a growing wiki. The people anti-patterns describe some behaviors that are not necessarily the result of any ill will or malicious motivation (except for vandalism, perhaps), but are mostly the result of people not understanding how the wiki works and how to be a productive member of the community. To help people remedy these anti-patterns, the pages for each detail ways to curb the anti-pattern behavior and keep the wiki on track.

The adoption patterns and anti-patterns (Figure 1-3) focus on overall organization of the wiki, getting groups started using it, keeping content organized as the wiki grows, making the wiki part of the normal induction for new employees, avoiding empty pages, and determining when to use the wiki versus when to use email.

Each pattern page (Figure 1-4) describes the pattern, explains where it's most used, and gives examples that can help readers relate the pattern to their own wikis. The pages for anti-patterns also include sections on what to look for to recognize the anti-patterns, and how to fix it. Both pattern and anti-pattern pages link to related patterns so readers get a sense of how behaviors on the wiki are connected. In the case of patterns, this can help you find other relevant patterns to apply, and for anti-patterns, it helps you know what other things might also happen on your wiki so that you can be best prepare to catch and fix them if they do.

The patterns and anti-patterns on the site are loosely modeled on the concept of software design patterns — those recurring patterns of behavior that can be recognized and channeled for the good of the team. Patterns are the types of activity that one would want to happen on the wiki, and anti-patterns are the scenarios that should be avoided or fixed to keep the growth of wiki use on track. For instance, the IntentionalError pattern suggests making an obvious mistake that someone else will be so compelled to fix, they just jump in and

#### Wiki Patterns and Wikipatterns.com 11

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Champion

Invitation

Maintainer

MySpace

Viral

Welcoming

WikiGnome

Looking to spur wiki adoption? Want to grow from 10 users to 100, or 1000? Applying <u>patterns</u> that help coordinate peoples' efforts and guide the growth of content, and recognizing <u>and-patterns</u> that might hinder growth - can give your wiki the greatest chance of success. Wikipatterns.com is a toolbox of patterns & anti-patterns, and a guide to the stages of wiki adoption. It's also a wiki, which means you can to the stages of which adoption, it's also a wilk, which means you can help <u>build</u> the information based on your experiences! Beyond this site, there are many other <u>additional resources</u>.

Wikipatterns Add a button to your blog, wiki or website!

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#### People Patterns People Anti-Patterns Adoption Patterns Adoption Anti-Patterns 90-9-1 Theory Bully Agenda All wiki all the time BarnRaising ContributorForHire Assess Wiki-Ability BeanCounter Biography Wiki Copyright infringement Automatic Index ContributorForHire Do it all Built-in obsolescence EmptyPages DefendYourself EmulatingReplicator CamelCase Manager Lockdown IdentityMatters Clean Permissions <u>Gate</u> OneHammer Leech Communication PageOwnership OverOrganizer Community Write Registration Required Learning still TransparencyComplaints Conferences Sandbox ThreadMess <u>Vandal</u> ContentAlert Social Tagging Wikiphobia Email to Wiki Too much structure StartingPoint WikiTroll FAQ Training FutureLinks Vandal How to use this site wikiPaintBrush Wiki Charter Intentional Error Wikiphobia Lunch Menu WikiZenMaster Magnet Naming Conventions Networked Information New Starter Oh That One Wiki space per Group **OverviewPages** Permission Granted Poker Quote Participants Scaffold Seed it with content Selective Rollback Set Window of Discussion SingleProblem ThreadMode Trellis Use WYSIWYG Wiki Not Email

### a back to top

Wikipatterns.com is spon ored by Atlassian Software, creators of JIRA, Confluence, Bamboo and Crowd Designed by Headshift Ltd

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Figure 1-1 Wikipatterns.com

### Figure 1-2 People patterns and anti-patterns

do it — and they've edited the wiki! The idea here is that a person's primary motivation when they see an error is to fix it, and the wiki provides an easy, immediate means to do so.

Wikipatterns.com itself is a wiki, and since its launch in February 2007, the site has grown from 29 to 78 patterns. Most of those have been contributed by the 711 registered users that make up the community as of October 2007.

Throughout this book, you'll look at several patterns and anti-patterns, and you'll learn how to apply them to help your own wiki grow. But this book is just a starting point, and Wikipatterns.com is the ongoing community that you can help build. So I invite you to use the site regularly to find useful patterns that can help you in specific situations, and give them a try. Once you've done so, please come back to the site to share your experiences, contribute new patterns, and add anecdotes and examples to the existing patterns. Others in the community will benefit from, and appreciate, the knowledge you contribute, and the community will become richer and more valuable as a result!

### Wiki Patterns and Wikipatterns.com 13

### **Adoption Patterns**

### Adoption Anti-Patterns

Agenda Assess Wiki-Ability Automatic Index Built-in obsolescence CamelCase Clean Permissions Communication Community Write Conferences ContentAlert Email to Wiki FAQ FutureLinks How to use this site Intentional Error Lunch Menu Magnet Naming Conventions Networked Information New Starter Oh That One Wiki space per Group **OverviewPages** Permission Granted Poker Quote Participants Scaffold Seed it with content Selective Rollback Set Window of Discussion SingleProblem ThreadMode Trellis Use WYSIWYG Wiki Not Email

All wiki all the time BeanCounter ContributorForHire EmptyPages Manager Lockdown OneHammer PageOwnership Registration Required Sandbox ThreadMess ThreadMess Too much structure Training Vandal wikiPaintBrush Wikiphobia

Figure 1-3 Adoption patterns and anti-patterns



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### Champion

em Português do Brasil

in Italiano

### What is it?

A passionate, enthusiastic champion is essential to the success of wiki because s/he will be able to generate interest, give the appropriate amount of training for each person at the right time, monitor growth of the tool and fix problems that could derail adoption.

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### Usage

The champion makes her/himself synonymous with wiki in an organization. When people think of wiki, they immediately think of the champion as the go-to person for guidance on learning the wiki and expanding its use to larger projects, planning events, managing meetings, and capturing tacit knowledge.

### Example

A wiki champion is someone who possesses the following traits:

- Thought leader who is a recognized early adopter and respected by peers
- Understands the nature of work involved in project, group, business, etc.
- Understands how to use a wiki how to organize content, get others involved, make it easy to use and keep it organized as it grows.
   "Gradually they train everyone that information flow, at least as far as they're concerned, happens on the wiki." (from <u>It's on the Wiki!</u>")
- Encourages others, but doesn't push too hard or fast because an <u>All wiki all the time</u> approach can be dangerous, especially at the beginning when people are still learning how to use it.
   Gets people involved by informally training them and being available for ongoing support.
- Rate this pattern?

### **Related Patterns**

- All wiki all the time an anti-pattern in which someone pushed for the wiki to be used for everything, all the time. An effective wiki
   champion will avoid this by pushing the wiki the appropriate amount at the appropriate time, and properly pacing adoption.
- <u>WikiGnome</u> also known as WikiGardener, a person who keeps the wiki running smoothly by fixing broken links, typos, and improving the overall flow and quality of content. Champions and WikiGnomes are critical to the success and quality of the wiki.
- <u>WikiTroll</u> someone who tries to disrupt the wiki by posting inflammatory comments and distracting people from the talk at hand. A
  champion will swiftly deal with the disruptions of a WikiTroll to keep the wiki running smoothly, and try to help the WikiTroll become a
  more productive community member.
- Maintainer the Wiki Champion often is the same guy as its maintainer.

### Further Reading

- <u>The Wiki Champion @ StructuredWikis</u><sup>®</sup>
- Wikis at work @ Dice.com<sup>®</sup>
- It's on the Wiki! @ Understanding Nothing<sup>2</sup>

Please Log in or sign-up to discuss the pattern.

People Patterns	People Anti-Patterns	Adoption Patterns	Adoption Anti-Patterns
90-9-1 Theory	Bully	Agenda	All wiki all the time
BarnRaising	ContributorForHire	Assess Wiki-Ability	BeanCounter
Biography Wiki	Copyright infringement	Automatic Index	ContributorForHire



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