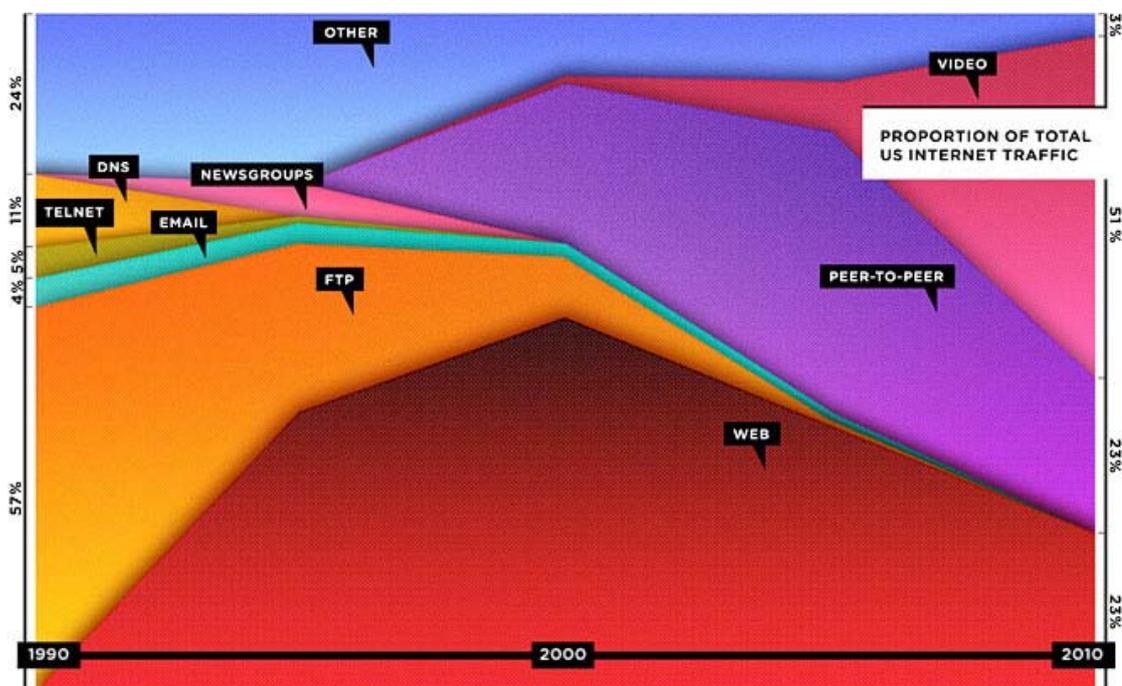


# The Web Is Dead. Long Live the Internet

- By Chris Anderson and Michael Wolff 
- August 17, 2010 |
- 9:00 am |
- [Wired September 2010](#)



Two decades after its birth, the World Wide Web is in decline, as simpler, sleeker services — think apps — are less about the searching and more about the getting. Chris Anderson explains how this new paradigm reflects the inevitable course of capitalism. And Michael Wolff explains why the new breed of media titan is forsaking the Web for more promising (and profitable) pastures.

## Who's to Blame: Us

As much as we love the open, unfettered Web, we're abandoning it for simpler, sleeker services that just work.  
*by Chris Anderson*

**You wake up and check** your email on your bedside iPad — that's one app. During breakfast you browse Facebook, Twitter, and *The New York Times* — three more apps. On the way to the office, you listen to a podcast on your smartphone. Another app. At work, you scroll through RSS feeds in a reader and have Skype and IM conversations. More apps. At the end of the day, you come home, make dinner while listening to Pandora, play some games on Xbox Live, and watch a movie on Netflix's streaming service.

You've spent the day on the Internet — but not on the

## Who's to Blame: Them

Chaos isn't a business model. A new breed of media moguls is bringing order — and profits — to the digital world.  
*by Michael Wolff*

**An amusing development** in the past year or so — if you regard post-Soviet finance as amusing — is that Russian investor [Yuri Milner](#) has, bit by bit, amassed one of the most valuable stakes on the Internet: He's got 10 percent of Facebook. He's done this by undercutting traditional American VCs — the [Kleiners](#) and the [Sequoias](#) who would, in days past, insist on a special status in return for their early investment. Milner not only offers better terms than VC firms, he sees the world differently. The traditional VC has a portfolio of Web sites, expecting a few of them to be successes — a good

Web. And you are not alone.

This is not a trivial distinction. Over the past few years, one of the most important shifts in the digital world has been the move from the wide-open Web to semiclosed platforms that use the Internet for transport but not the browser for display. It's driven primarily by the rise of the iPhone model of mobile computing, and it's a world Google can't crawl, one where HTML doesn't rule. And it's the world that consumers are increasingly choosing, not because they're rejecting the idea of the Web but because these dedicated platforms often just work better or fit better into their lives (the screen comes to them, they don't have to go to the screen). The fact that it's easier for companies to make money on these platforms only cements the trend. Producers and consumers agree: The Web is not the culmination of the digital revolution.

A decade ago, the ascent of the Web browser as the center of the computing world appeared inevitable. It seemed just a matter of time before the Web replaced PC application software and reduced operating systems to a "poorly debugged set of device drivers," as Netscape cofounder Marc Andreessen famously said. First Java, then Flash, then Ajax, then HTML5 — increasingly interactive online code — promised to put all apps in the cloud and replace the desktop with the webtop. Open, free, and out of control.

But there has always been an alternative path, one that saw the Web as a worthy tool but not the whole toolkit. In 1997, *Wired* published a now-infamous ["Push!" cover story](#), which suggested that it was time to "kiss your browser goodbye." The argument then was that "push" technologies such as PointCast and Microsoft's Active Desktop would create a "radical future of media beyond the Web."

"Sure, we'll always have Web pages. We still have postcards and telegrams, don't we? But the center of interactive media — increasingly, the center of gravity of all media — is moving to a post-HTML environment," we promised nearly a decade and half ago. The examples of the time were a bit silly — a "3-D furry-muckers VR space" and "headlines sent to a pager" — but the point was altogether prescient: a glimpse of the machine-to-machine future that would be less about browsing and more about getting.

metaphor for the Web itself, broad not deep, dependent on the connections between sites rather than any one, autonomous property. In an entirely different strategic model, the Russian is concentrating his bet on a unique power bloc. Not only is Facebook more than just another Web site, Milner says, but with 500 million users it's "the largest Web site there has ever been, so large that it is not a Web site at all."

According to [Compete](#), a Web analytics company, the top 10 Web sites accounted for 31 percent of US pageviews in 2001, 40 percent in 2006, and about 75 percent in 2010. "Big sucks the traffic out of small," Milner says. "In theory you can have a few very successful individuals controlling hundreds of millions of people. You can become big fast, and that favors the domination of strong people."

Milner sounds more like a traditional media mogul than a Web entrepreneur. But that's exactly the point. If we're moving away from the open Web, it's at least in part because of the rising dominance of businesspeople more inclined to think in the all-or-nothing terms of traditional media than in the come-one-come-all collectivist utopianism of the Web. This is not just natural maturation but in many ways the result of a competing idea — one that rejects the Web's ethic, technology, and business models. The control the Web took from the vertically integrated, top-down media world can, with a little rethinking of the nature and the use of the Internet, be taken back.

**This development** — a familiar historical march, both feudal and corporate, in which the less powerful are sapped of their reason for being by the better resourced, organized, and efficient — is perhaps the rudest shock possible to the leveled, porous, low-barrier-to-entry ethos of the Internet Age. After all, this is a battle that seemed fought and won — not just toppling newspapers and music labels but also AOL and Prodigy and anyone who built a business on the idea that a curated experience would beat out the flexibility and freedom of the Web.

As it happened, [PointCast](#), a glorified screensaver that could inadvertently bring your corporate network to its knees, quickly imploded, taking push with it. But just as Web 2.0 is simply Web 1.0 that works, the idea has come around again. Those push concepts have now reappeared as APIs, apps, and the smartphone. And this time we have Apple and the iPhone/iPad juggernaut leading the way, with tens of millions of consumers already voting with their wallets for an app-led experience. This post-Web future now looks a lot more convincing. Indeed, it's already here.

The Web is, after all, just one of many applications that exist on the Internet, which uses the IP and TCP protocols to move packets around. This architecture — not the specific applications built on top of it — is the revolution. Today the content you see in your browser — largely HTML data delivered via the http protocol on port 80 — accounts for less than a quarter of the traffic on the Internet ... and it's shrinking. The applications that account for more of the Internet's traffic include peer-to-peer file transfers, email, company VPNs, the machine-to-machine communications of APIs, Skype calls, *World of Warcraft* and other online games, Xbox Live, iTunes, voice-over-IP phones, iChat, and Netflix movie streaming. Many of the newer Net applications are closed, often proprietary, networks.

And the shift is only accelerating. Within five years, Morgan Stanley projects, the number of users accessing the Net from mobile devices will surpass the number who access it from PCs. Because the screens are smaller, such mobile traffic tends to be driven by specialty software, mostly apps, designed for a single purpose. For the sake of the optimized experience on mobile devices, users forgo the general-purpose browser. They use the Net, but not the Web. Fast beats flexible.

**This was all inevitable.** It is the cycle of capitalism. The story of industrial revolutions, after all, is a story of [battles over control](#). A technology is invented, it spreads, a thousand

The truth is that the Web has always had two faces. On the one hand, the Internet has meant the breakdown of incumbent businesses and traditional power structures. On the other, it's been a constant power struggle, with many companies banking their strategy on controlling all or large chunks of the TCP/IP-fueled universe. Netscape tried to own the homepage; Amazon.com tried to dominate retail; Yahoo, the navigation of the Web.

Google was the endpoint of this process: It may represent open systems and leveled architecture, but with superb irony and strategic brilliance it came to almost completely control that openness. It's difficult to imagine another industry so thoroughly subservient to one player. In the Google model, there is one distributor of movies, which also owns all the theaters. Google, by managing both traffic and sales (advertising), created a condition in which it was impossible for anyone else doing business in the traditional Web to be bigger than or even competitive with Google. It was the imperial master over the world's most distributed systems. A kind of Rome.

In an analysis that sees the Web, in the description of Interactive Advertising Bureau president Randall Rothenberg, as driven by "a bunch of megalomaniacs who want to own the entirety of the world," it is perhaps inevitable that some of those megalomaniacs began to see replicating Google's achievement as their fundamental business challenge. And because Google so dominated the Web, that meant building an alternative to the Web.

THEN	NOW
ERIC SCHMIDT	MARK ZUCKERBERG
MARC ANDREESSEN	STEVE JOBS
SHAWN FANNING	DANIEL EK
MICHAEL MORITZ	YURI MILNER
CHAD HURLEY	JASON KILAR
JERRY YANG	MARK PINCUS
EVAN WILLIAMS (BLOGGER)	EVAN WILLIAMS (TWITTER)

Enter Facebook. The site began as a free but closed system. It required not just registration but an acceptable email address (from a university, or later, from any school). Google was forbidden to search through its servers. By the time it opened to the general public in 2006, its clublike, ritualistic, highly regulated foundation was already in

flowers bloom, and then someone finds a way to own it, locking out others. It happens every time.

Take railroads. Uniform and open gauge standards helped the industry boom and created an explosion of competitors — in 1920, there were 186 major railroads in the US. But eventually the strongest of them rolled up the others, and today there are just seven — a regulated oligopoly. Or telephones. The invention of the switchboard was another open standard that allowed networks to interconnect. After telephone patents held by AT&T's parent company expired in 1894, more than 6,000 independent phone companies sprouted up. But by 1939, AT&T controlled nearly all of the US's long-distance lines and some four-fifths of its telephones. Or electricity. In the early 1900s, after the standardization to alternating current distribution, hundreds of small electric utilities were consolidated into huge holding companies. By the late 1920s, the 16 largest of those commanded more than 75 percent of the electricity generated in the US.

Indeed, there has hardly ever been a fortune created without a monopoly of some sort, or at least an oligopoly. This is the natural path of industrialization: invention, propagation, adoption, control.

Now it's the Web's turn to face the pressure for profits and the walled gardens that bring them. Openness is a wonderful thing in the nonmonetary economy of peer production. But eventually our tolerance for the delirious chaos of infinite competition finds its limits. Much as we love freedom and choice, we also love things that just work, reliably and seamlessly. And if we have to pay for what we love, well, that increasingly seems OK. Have you looked at your cell phone or cable bill lately?

As Jonathan L. Zittrain puts it in *The Future of the Internet — And How to Stop It*, "It is a mistake to think of the Web browser as the apex of the PC's evolution." Today the Internet hosts countless closed gardens; in a sense, the Web is an exception, not the rule.

place. Its very attraction was that it was a closed system. Indeed, Facebook's organization of information and relationships became, in a remarkably short period of time, a redoubt from the Web — a simpler, more habit-forming place. The company invited developers to create games and applications specifically for use on Facebook, turning the site into a full-fledged platform. And then, at some critical-mass point, not just in terms of registration numbers but of sheer time spent, of habituation and loyalty, Facebook became a parallel world to the Web, an experience that was vastly different and arguably more fulfilling and compelling and that consumed the time previously spent idly drifting from site to site. Even more to the point, Facebook founder Mark Zuckerberg possessed a clear vision of empire: one in which the developers who built applications on top of the platform that his company owned and controlled would always be subservient to the platform itself. It was, all of a sudden, not just a radical displacement but also an extraordinary concentration of power. The Web of countless entrepreneurs was being overshadowed by the single entrepreneur-mogul-visionary model, a ruthless paragon of everything the Web was not: rigid standards, high design, centralized control.

**Striving megalomaniacs** like Zuckerberg weren't the only ones eager to topple Google's model of the open Web. Content companies, which depend on advertising to fund the creation and promulgation of their wares, appeared to be losing faith in their ability to do so online. The Web was built by engineers, not editors. So nobody paid much attention to the fact that HTML-constructed Web sites — the most advanced form of online media and design — turned out to be a pretty piss-poor advertising medium.

For quite a while this was masked by the growth of the audience share, followed by an ever-growing ad-dollar share, until, about two years ago, things started to slow down. The audience continued to grow at a ferocious rate — about 35 percent of all our media time is now spent on the Web — but ad dollars weren't keeping pace. Online ads had risen to some 14 percent of consumer advertising spending but had begun to level off. (In contrast, TV — which also accounts for 35 percent of our media time, gets nearly 40 percent of ad dollars.)

Monopolies are actually even more likely in highly networked markets like the online world. The dark side of network effects is that rich nodes get richer. [Metcalf's law](#), which states that the value of a network increases in proportion to the square of connections, creates winner-take-all markets, where the gap between the number one and number two players is typically large and growing.

THEN	NOW
BROWSER	APPS
SYNDICATION	SUBSCRIPTION
GOOGLE!!	GOOGLE??
FREE	FREEMIUM
JAVASCRIPT	OBJECTIVE-C
HTML	XML

So what took so long? Why wasn't the Web colonized by monopolists a decade ago? Because it was in its adolescence then, still innovating quickly with a fresh and growing population of users always looking for something new. Network-driven domination was short-lived. Friendster got huge while social networking was in its infancy, and fickle consumers were still keen to experiment with the next new thing. They found another shiny service and [moved on](#), just as they had abandoned SixDegrees.com before it. In the expanding universe of the early Web, AOL's walled garden couldn't compete with what was outside the walls, and so the walls fell.

But the Web is now 18 years old. It has reached adulthood. An entire generation has grown up in front of a browser. The exploration of a new world has turned into business as usual. We get the Web. It's part of our life. And we just want to use the services that make our life better. Our appetite for discovery slows as our familiarity with the status quo grows.

Blame human nature. As much as we intellectually appreciate openness, at the end of the day we favor the easiest path. We'll pay for convenience and reliability, which is why iTunes can sell songs for 99 cents despite the fact that they are out there, somewhere, in some form, for free. When you are young, you have more time than money, and LimeWire is worth the hassle. As you get older, you have more money than time. The iTunes toll is a small price to pay for the simplicity of just getting what you want. The more Facebook becomes part of your life, the more locked in you become. Artificial scarcity is the natural goal of the profit-seeking.

What's more, there was the additionally sobering and confounding fact that an online consumer continued to be worth significantly less than an offline one. For a while, this was seen as inevitable right-sizing: Because everything online could be tracked, advertisers no longer had to pay to reach readers who never saw their ads. You paid for what you got.

Unfortunately, what you got wasn't much. Consumers weren't motivated by display ads, as evidenced by the share of the online audience that bothered to click on them. (According to a 2009 comScore study, only 16 percent of users ever click on an ad, and 8 percent of users accounted for 85 percent of all clicks.) The Web might generate some clicks here and there, but you had to aggregate millions and millions of them to make any money (which is what Google, and basically nobody else, was able to do). And the Web almost perversely discouraged the kind of systematized, coordinated, focused attention upon which brands are built — the prime, or at least most lucrative, function of media.

What's more, this medium rendered powerless the marketers and agencies that might have been able to turn this chaotic mess into an effective selling tool — the same marketers and professional salespeople who created the formats (the variety shows, the 30-second spots, the soap operas) that worked so well in television and radio. Advertising powerhouse WPP, for instance, with its colossal network of marketing firms — the same firms that had shaped traditional media by matching content with ads that moved the nation — may still represent a large share of Google's revenue, but it pales next to the greater population of individual sellers that use Google's AdWords and AdSense programs.

There is an analogy to the current Web in the first era of the Internet. In the 1990s, as it became clear that digital networks were the future, there were two warring camps. One was the traditional telcos, on whose wires these feral bits of the young Internet were being sent. The telcos argued that the messy protocols of TCP/IP — all this unpredictable routing and those lost packets requiring resending — were a cry for help. What consumers wanted were “intelligent” networks that could (for a price) find the right path and provision the right bandwidth so that transmissions would flow uninterrupted. Only the owners of the networks could put the intelligence in place at the right spots, and thus the Internet would become a value-added service provided by the AT&Ts of the world, much like ISDN before it. The rallying cry was “quality of service” (QoS). Only telcos could offer it, and as soon as consumers demanded it, the telcos would win.

The opposing camp argued for “dumb” networks. Rather than cede control to the telcos to manage the path that bits took, argued its proponents, just treat the networks as dumb pipes and let TCP/IP figure out the routing. So what if you have to resend a few times, or the latency is all over the place. Just keep building more capacity — “overprovision bandwidth” — and it will be Good Enough.

On the underlying Internet itself, Good Enough has won. We stare at the spinning buffering disks on our YouTube videos rather than accept the Faustian bargain of some Comcast/Google QoS bandwidth deal that we would invariably end up paying more for. Aside from some corporate networks, dumb pipes are what the world wants from telcos. The innovation advantages of an open marketplace outweigh the limited performance advantages of a closed system.

But the Web is a different matter. The marketplace has spoken: When it comes to the applications that run on top of the Net, people are starting to choose quality of service. We want [TweetDeck](#) to organize our Twitter feeds because it’s more convenient than the Twitter Web page. The Google Maps mobile app on our phone works better in the car than the Google Maps Web site on our laptop. And we’d rather lean back to read books with our Kindle or iPad app than lean forward to peer at our desktop browser.

At the application layer, the open Internet has always been a fiction. It was only because we confused the Web with the Net that we didn’t see it. The rise of machine-to-machine communications — iPhone apps talking to Twitter APIs — is all about control. Every API comes with terms of service, and Twitter, Amazon.com, Google, or any other

One result of the relative lack of influence of professional salespeople and hucksters — the democratization of marketing, if you will — is that advertising on the Web has not developed in the subtle and crafty and controlling ways it did in other mediums. The ineffectual [banner ad](#), created (indeed by the founders of this magazine) in 1994 — and never much liked by anyone in the marketing world — still remains the foundation of display advertising on the Web.

And then there’s the audience.

At some never-quite-admitted level, the Web audience, however measurable, is nevertheless a fraud. Nearly 60 percent of people find Web sites from search engines, much of which may be driven by SEO, or “search engine optimization” — a new-economy acronym that refers to gaming Google’s algorithm to land top results for hot search terms. In other words, many of these people have been essentially corralled into clicking a random link and may have no idea why they are visiting a particular site — or, indeed, what site they are visiting. They are the exact opposite of a loyal audience, the kind that you might expect, over time, to inculcate with your message.

Web audiences have grown ever larger even as the quality of those audiences has shriveled, leading advertisers to pay less and less to reach them. That, in turn, has meant the rise of junk-shop content providers — like [Demand Media](#) — which have determined that the only way to make money online is to spend even less on content than advertisers are willing to pay to advertise against it. This further cheapens online content, makes visitors even less valuable, and continues to diminish the credibility of the medium.

Even in the face of this downward spiral, the despairing have hoped. But then came the recession, and the panic button got pushed. Finally, after years of experimentation, content companies came to a disturbing conclusion: The Web did not work. It would never bring in the bucks. And so they began looking for a new model, one that leveraged the power of the Internet without the value-destroying side

company can control the use as they will. We are choosing a new form of QoS: custom applications that just work, thanks to cached content and local code. Every time you pick an iPhone app instead of a Web site, you are voting with your finger: A better experience is worth paying for, either in cash or in implicit acceptance of a non-Web standard.

In the media world, this has taken the form of a shift from ad-supported free content to [freemium](#) — free samples as marketing for paid services — with an emphasis on the “premium” part. On the Web, average CPMs (the price of ads per thousand impressions) in key content categories such as news are falling, not rising, because user-generated pages are flooding Facebook and other sites. The assumption had been that once the market matured, big companies would be able to reverse the hollowing-out trend of analog dollars turning into digital pennies. Sadly that hasn’t been the case for most on the Web, and by the looks of it there’s no light at the end of that tunnel. Thus the shift to the app model on rich media platforms like the iPad, where limited free content drives subscription revenue (check out [Wired’s cool new iPad app!](#)).

The Web won’t take the sequestering of its commercial space easily. The defenders of the unfettered Web have their hopes set on HTML5 — the latest version of Web-building code that offers applike flexibility — as an open way to satisfy the desire for quality of service. If a standard Web browser can act like an app, offering the sort of clean interface and seamless interactivity that iPad users want, perhaps users will resist the trend to the paid, closed, and proprietary. But the business forces lining up behind closed platforms are big and getting bigger. This is seen by many as a battle for the soul of the digital frontier.

Zittrain argues that the demise of the all-encompassing, wide-open Web is a dangerous thing, a loss of open standards and services that are “generative” — that allow people to find new uses for them. “The prospect of tethered appliances and software as service,” he warns, “permits major regulatory intrusions to be implemented as minor technical adjustments to code or requests to service

effects of the Web. And they found Steve Jobs, who — rumor had it — was working on a new tablet device.

Now, on the technology side, what the Web has lacked in its determination to turn itself into a full-fledged media format is anybody who knew anything about media. Likewise, on the media side, there wasn’t anybody who knew anything about technology. This has been a fundamental and aching disconnect: There was no sublime integration of content and systems, of experience and functionality — no clever, subtle, Machiavellian overarching design able to create that codependent relationship between audience, producer, and marketer.

Jobs perfectly fills that void. Other technologists have steered clear of actual media businesses, seeing themselves as renters of systems and third-party facilitators, often deeply wary of any involvement with content. (See, for instance, Google CEO Eric Schmidt’s insistence that his company is not in the content business.) Jobs, on the other hand, built two of the most successful media businesses of the past generation: iTunes, a content distributor, and Pixar, a movie studio. Then, in 2006, with the sale of Pixar to Disney, Jobs becomes the biggest individual shareholder in one of the world’s biggest traditional media conglomerates — indeed much of Jobs’ personal wealth lies in his traditional media holdings.

In fact, Jobs had, through iTunes, aligned himself with traditional media in a way that Google has always resisted. In Google’s open and distributed model, almost anybody can advertise on nearly any site and Google gets a cut — its interests are with the mob. Apple, on the other hand, gets a cut any time anybody buys a movie or song — its interests are aligned with the traditional content providers. (This is, of course, a complicated alignment, because in each deal, Apple has quickly come to dominate the relationship.)

So it’s not shocking that Jobs’ iPad-enabled vision of media’s future looks more like media’s past. In this scenario, Jobs is a mogul straight out of the studio system. While Google may have controlled traffic and sales, Apple controls the content itself. Indeed, it retains absolute

providers.”

But what is actually emerging is not quite the bleak future of the Internet that Zittrain envisioned. It is only the future of the commercial content side of the digital economy. Ecommerce continues to thrive on the Web, and no company is going to shut its Web site as an information resource. More important, the great virtue of today’s Web is that so much of it is noncommercial. The wide-open Web of peer production, the so-called generative Web where everyone is free to create what they want, continues to thrive, driven by the nonmonetary incentives of expression, attention, reputation, and the like. But the notion of the Web as the ultimate marketplace for digital delivery is now in doubt.

The Internet is the real revolution, as important as electricity; what we do with it is still evolving. As it moved from your desktop to your pocket, the nature of the Net changed. The delirious chaos of the open Web was an adolescent phase subsidized by industrial giants groping their way in a new world. Now they’re doing what industrialists do best — finding choke points. And by the looks of it, we’re loving it.

*Editor in chief Chris Anderson ([canderson@wired.com](mailto:canderson@wired.com)) wrote about the new industrial revolution in issue 18.02.*

approval rights over all third-party applications. Apple controls the look and feel and experience. And, what’s more, it controls both the content-delivery system (iTunes) and the devices (iPods, iPhones, and iPads) through which that content is consumed.

Since the dawn of the commercial Web, technology has eclipsed content. The new business model is to try to let the content — the product, as it were — eclipse the technology. Jobs and Zuckerberg are trying to do this like old-media moguls, fine-tuning all aspects of their product, providing a more designed, directed, and polished experience. The rising breed of exciting Internet services — like [Spotify](#), the hotly anticipated streaming music service; and Netflix, which lets users stream movies directly to their computer screens, Blu-ray players, or Xbox 360s — also pull us back from the Web. We are returning to a world that already exists — one in which we chase the transformative effects of music and film instead of our brief (relatively speaking) flirtation with the transformative effects of the Web.

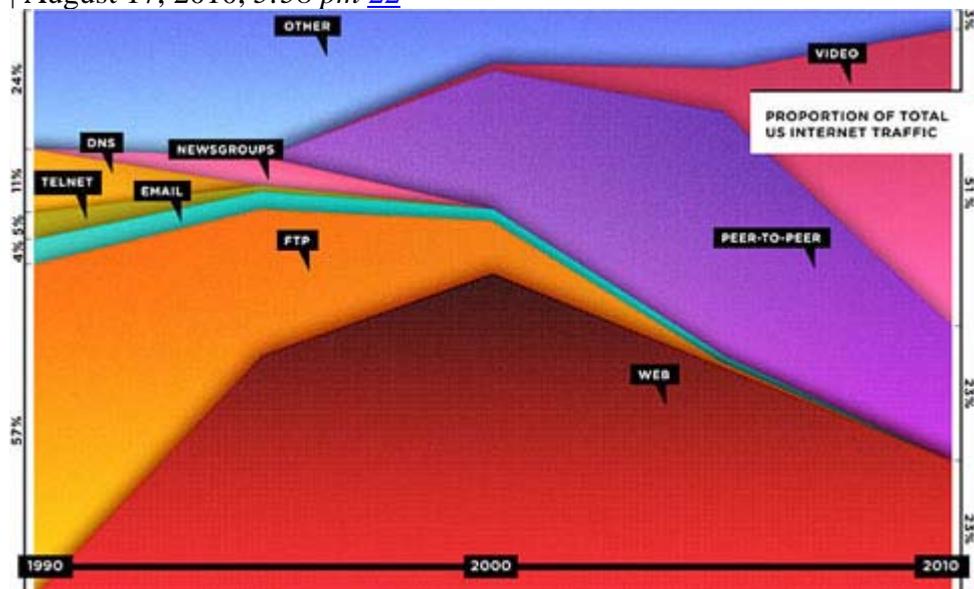
After a long trip, we may be coming home.

*Michael Wolff ([michael@burnrate.com](mailto:michael@burnrate.com)) is a new contributing editor for Wired. He is also a columnist for Vanity Fair and the founder of Newser, a news-aggregation site.*

# Is the Web Dying? It Doesn't Look That Way

By [NICK BILTON](#)

| August 17, 2010, 5:58 pm [22](#)



Wired The chart accompanying the Wired article shows Web traffic shrinking — as a proportion of total Internet traffic.

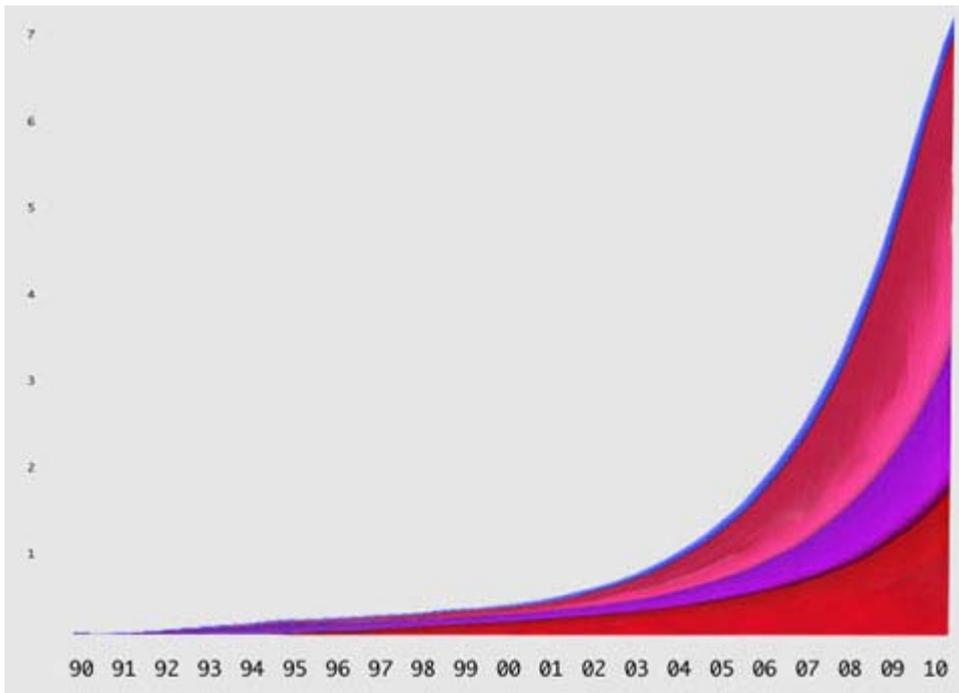
Is the Web dead?

Chris Anderson, Wired magazine's editor in chief, says the Web is being crippled by a world of apps and screens in a [cover story](#) titled "The Web Is Dead. Long Live the Internet."

Mr. Anderson argues that a world of downloadable apps, which work through the Internet and arrive via gadgets like the iPhone or Xbox, are quickly cannibalizing the World Wide Web as consumers prefer buttoned-up, dedicated platforms, designed specifically for mobile screens.

Is he right? Should we plaster R.I.P. signs all over the Web? Not exactly.

A chart Wired used for its story shows that since 2000, Web traffic has decreased as a percentage of overall Internet traffic in the United States. The graphic's data comes from a Cisco report [that uses data](#) from the Cooperative Association for Internet Data Analysis, a collaborative group that monitors Internet infrastructure.



[Boing Boing](#) Boing Boing notes:

“Between 1995 and 2006, the total amount of Web traffic went from about 10 terabytes a month to 1,000,000 terabytes.”

The Web site [Boing Boing notes](#) that if you change the graph to show actual traffic growth online, you can see hockey-stick-like growth over every aspect of the Internet through the past two decades, including the Web.

Although Wired might be right in its assessment that apps are on the rise, with [billions downloaded](#) from Apple alone, many areas of the Web continue to grow dramatically too.

Take Facebook for example. Not only has the company grown to over half a billion users, but it has also seen major growth in its mobile applications, all while its Web site [has grown](#) with rapid speed too. In other words, the entire platform has grown sharply.

There’s another piece of the puzzle too. Most of these apps and Web sites are so intertwined that it’s difficult to know the difference. With the exception of downloadable games, most Web apps for news and services require pieces of the Web and Internet to function properly.

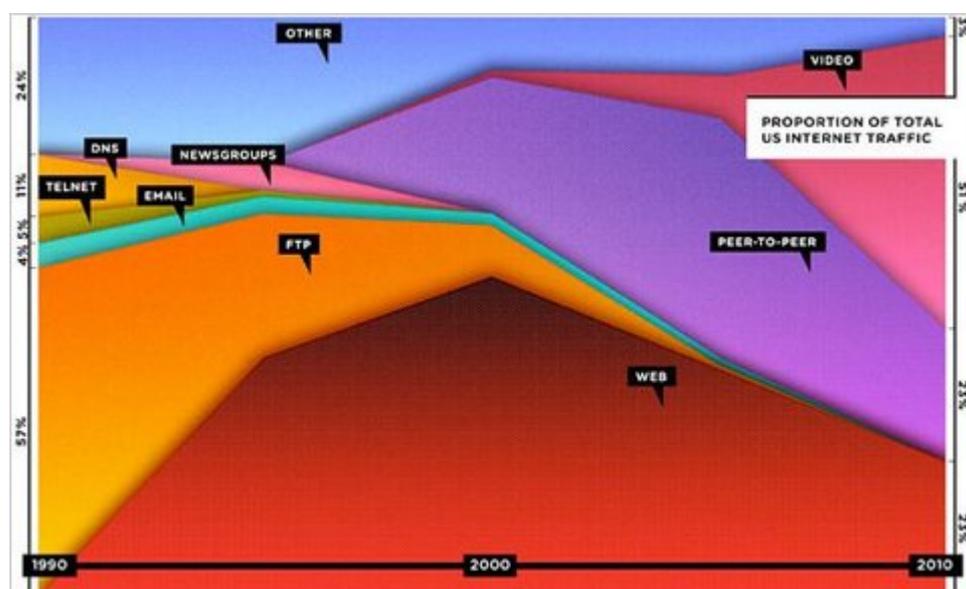
So as more devices become connected to the Internet, even if they’re built to access beautiful walled gardens, like mobile apps or TV-specific interfaces, they will continue to access the Web too, enabling each platform to grow concurrently.

Pogue's Post  
September 20, 2010, 10:00 am

## Is the Web Dead?

The garish red cover of September's Wired magazine bears the huge headline "The Web is dead." The article's argument is that we do a lot of stuff on the Internet nowadays that does not, in fact, take place on a Web page. We use all kinds of tools — phone apps, Internet radio, Twitter, Skype and so on — that don't necessarily involve going to a Web site.

The opening spread of the article depicts a graph of all of these activities, showing use of the Web plummeting downward. It's the red chunk here:



Wired Magazine A graph

showing Internet activity ([Click to see full-sized image](#)).

O.K., first of all — what an irresponsible headline. "The Web is dead"? Come on. So Facebook is dead? Google is dead? Nobody uses Craigslist, eBay, YouTube, Flickr, Amazon, NYTimes.com anymore?

Total poppycock. In fact, all of these are growing — not declining.

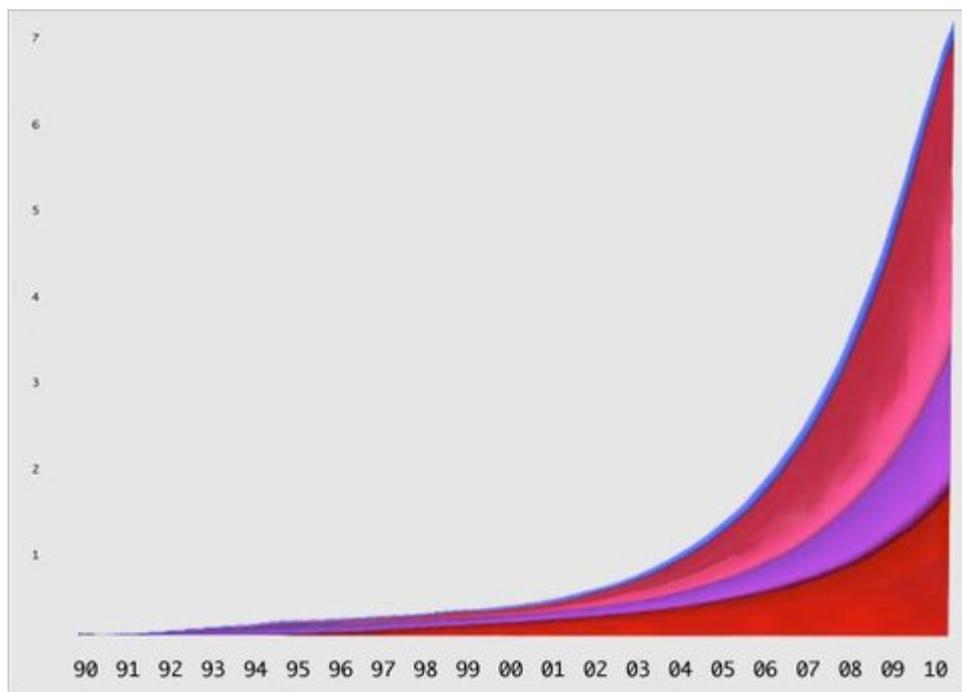
And now let's take a look at the graph. If you look closely, you realize that the graph represents Web usage as a percentage of Internet traffic.

The graph, in other words, doesn't say that we're using the Web less. It just says that we're using a lot more online tools. Actually, what it really says is that online video has taken off in the last few years (well, duh), which totally skews the "percentage of Internet traffic" statistic. Wired completely misinterpreted its own chart.

At a conference this week, I saw a speaker throw that same graph onto the big screen — and repeat the misinterpretation. "You can see here that clearly, people aren't using the Web as much," he said. Argh.

For the purposes of this blog post, I decided to go find the Cisco survey that Wired claims provided the data for its graph. Thanks to Google (huh! thought that was dead?), I found it easily enough. It was in a [boingboing.net column](#) that makes precisely the same point I'm making. In fact, it even plotted the same

data to form a new graph, a more truthful graph, that depicts actual Web usage (that is, not as a percentage of the whole). And, as I suspected, actually Web use is skyrocketing:



Obviously, Wired chose its headline to be deliberately inflammatory, to get people talking, to sell magazines — not to report accurately. But come on; there's a point where that kind of thing gets to be just silly. If Web use were down slightly, even then "The Web is dead" would be a gross exaggeration. But in fact, the data actually prove exactly the opposite point of what Wired is trying to say.

A more responsible, accurate article would have been titled, "The Web Remains Increasingly Popular, Even as It is Joined by More and More Special-Purpose Internet Apps." But something tells me it wouldn't have sold as many copies.

If you want more, the further thoughts of Chris Anderson, author of the Wired article, on this topic can be found [here](#).