

Department association of CSE  
proudly presents

# DIGITIMES

*App for you*



*Count your calories*

CAREERS



**I  
born!!  
Fembots!!**



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This edition of DIGITIMES will serve you lot of information apart from your book. Time saving computer tricks, top IT personalites and top IT companies will judge your knowledge. The history of fembots can take you to the world of robots where as our new article “create a new path” will help our students to decide their future.

with best regards

T.E.MATHAN (Final CSE)

President-DIGIFLASH(2014-2015)

# **C O N T E N T S**

**Computer Science Students  
- Create a New Path**

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# COMPUTER SCIENCE

## Create A New Path **STUDENTS**

The article talks about the jobs (government and private) available for graduation with computer science major, where there are many competitive exams and the best institutes waiting for you, if you have that skills required by these institutes or universities.



### A. Public Sector:

There are several government jobs available for you in renowned firms like ONGC, DRDO, ISRO, BSNL JTO, BHEL, NTPC, SAIL, CDAC, CDIT, IOCL, IES, IAS, IPS and CDS.

Most of these companies generally consider the GATE score.

UPSC and SSC conduct various tests. Tests conducted by SSC are for CBI and are called CGPE exams.

Public sector banks are also one of the best jobs requiring good mathematical and economical skills. They conduct various tests as well.

For more information, go to [www.governmentjobsalerts.com](http://www.governmentjobsalerts.com)

### B. Private Sector:

IT companies like TCS, Infosys, Wipro, CTS, HCL, Satyam, HP and many more recruit computer science graduates on the basis for their technical and presentation skills, requirement of good GPA is also a necessity but it is more important to achieve the former two skills.

Besides this, companies such as Tech Support, BPO and call centers offer good salary, as well, and number of perks.

### C. Further studies:

If you wish to study further, then myriad options are available. You can go for MBA, M.tech, MCA and many others. If you wish to study abroad, there is a plenty of information available on [www.studyplaces.com](http://www.studyplaces.com) and there is an additional requirement to clear IELTS, TOEFL and GRE. For MBA, entrance exams such as CAT and GMAT are the most renowned. Besides, there are others too like MAT, XAT, JMET, FMS, IBST, SNAP and CMAT.

#### Top colleges for MBA:

- Harvard University
- Stanford University
- London Business School
- Edinburgh University
- Queens University

- Melbourne Business School
- University of Auckland
- Chinese University of Hong Kong
- Asian institute of Management

#### Top colleges for MBA in India:

- IIMs
- Symbiosis, Pune
- JBIMS, Mumbai
- XLRI, Jamshedpur
- ICFAI, Hyderabad
- NMIMS, Mumbai

For M.tech and MCA, GATE score is important but at some places there is direct admission for MCA.

#### A. NCSA (National Computer Science Academy)

Through this, you can test your skills with one of their online certification exams.

You can earn money by helping people get the computer training and certification they need.



It conducts exams based on- Microsoft Windows, PC Basics, computer hardware, Microsoft Office, Visual C++, HTML and JavaScript.

Employee testing program allows you to test in any one of their available certifications or to create your own custom exams using their testing engine.

On Demand Training: It features over 7500 quality instructors who led videos and courseware available online 24/7. Courses also offered individually and on CD.

You can go to [www.ncsacademy.com](http://www.ncsacademy.com)

### B. Microsoft Certification Exams:

When you pass your first Microsoft Certification Exams, you become a member of the Microsoft Certified Professional (MCP).

There are wide range of Microsoft Certification Exams for entry level to experienced professionals and for domains ranging from networking, system administration, and database management to programming, web development and other advanced technologies.

It conducts exams like MTA, MCTS, MCIP, MCIP SQL Server, MCPD and for more, go to [www.microsoft.com/learning/en/us/certification-exams.aspx](http://www.microsoft.com/learning/en/us/certification-exams.aspx)

There is a lot more information available on [www.cheat-test.com](http://www.cheat-test.com) regarding exams.

### C.ACM-ICPC(International Collegiate Programming Contest):

It is a team based annual multi-tiered competitive programming competition among the universities of the world sponsored by IBM

You should have good skills of algorithms and programming languages like C++ and Java.

Find out more on [www.icpc.baylor.edu](http://www.icpc.baylor.edu)

### D. Internship:

Through internship, you can increase your marketability in the job force.

There are a few paid internships as well.

If you are planning to do internship abroad then it brings you plenty of advantages but there are many things to be taken care of like housing safety and visa requirement. Moreover, international resumes, travel insurance (some companies provide this, others don't), on-site support and cost of living must be considered.

There are some companies that help you find an international engineering internship:

DAAD Research Internships in Science and Engineering (RISE)

[www.daad.de/rise-programs/en/index.html](http://www.daad.de/rise-programs/en/index.html)

CDS International Internships Abroad  
[www.cdsintl.org](http://www.cdsintl.org)

Global Experiences Engineering Internships  
[www.globalexperiences.com/internships/barcelona-spain-internships.php](http://www.globalexperiences.com/internships/barcelona-spain-internships.php)

IEM Internships Abroad  
[www.iemstudyabroad/students/study-abroad-internships/](http://www.iemstudyabroad/students/study-abroad-internships/)

These all can make you an expert in your field. So, give your 100%.

## ALL THE BEST

Reference:

<http://felishiyaps.hubpages.com/>

# RISE OF THE FEMBOTS

## Why Artificial Intelligence Is Often Female ?

From Apple's iPhone assistant Siri to the mechanized attendants at Japan's first robot-staffed hotel, a seemingly disproportionate percentage of artificial intelligence systems have female personas. Why?

One reason for the glut of female artificial intelligences (AIs) and androids (robots designed to look or act like humans) may be that these machines tend to perform jobs that have traditionally been associated with women. For example, many robots are designed to function as maids, personal assistants or museum guides.

Siri is perhaps today's most well-known example of AI. The name Siri in Norse means "a beautiful woman who leads you to victory," and the default voice is a female American persona known as Samantha. Apple acquired Siri in 2010 from the research non-profit SRI International, an Apple spokeswoman said. Siri's voice now comes in male or female form, and can be set to a number of different languages.

In study Mac Dorman and his colleagues played clips of male and female voices, and gave people a questionnaire about which voice they preferred. Then the researchers gave people a test that measured their implicit, or subconscious, preferences. The men in the study reported that they preferred female voices, but they showed no implicit preference for them, whereas the women in the study implicitly preferred female voices to male ones, even more than they admitted in the questionnaire.

Recently, Ishiguro developed a series of "Actroid" robots, manufactured by the Japanese robotics company Kokoro, for the world's first robot-staffed hotel. According to The Telegraph, the droids — which resemble young Japanese women — will act as reception attendants, waitresses, cleaners and cloakroom attendants.

Female AI personas can also be found in fiction. Another reason for having female robots could be that women are perceived as less threatening or more friendly than men. And the same could be said of childlike robots.

-Reference: [livescience.com](http://livescience.com)





## Best Calorie Counter App

MyFitnessPal (Free, iOS, Android) fitness-tracking app has as many or more features in its free version than any fitness app, and its food diary is particularly well-designed. The app takes in information about your weight and weight-loss goals, and calculates a recommended calorie budget for the day. This budget appears on the app's home screen, along with a running count of the calories you've taken in from food and burned by exercising. From the home screen, users can click on the day's budget to be taken to a page showing a diary of the food eaten so far that day. To enter foods, users can search the app's nutrition database, create custom foods or just add a quick calorie count based on real-world calculations. A barcode scanner is included for the quick entry of the nutritional facts of packaged foods.

One of the best features of MyFitnessPal is the app's ability to download recipes directly into the app and get estimated calorie counts. The app will take the recipe ingredient list, cross-check it with its nutrition database, and give an estimate of calories per serving. MyFitnessPal also saves frequently entered foods to a tab for quick entry, and allows users to save their favourite meals in another easy-to-search spot. A pie chart shows an estimated breakdown of the number of calories you've consumed from carbohydrates, fats and proteins. These breakdowns are then compared to the user's diet goals for each. Both daily and weekly charts are available. MyFitnessPal has graphs tracking progress toward goals going up to a year or more. The app can set up optional reminders to record weight or foods.

Reference: [www.technologynews.com](http://www.technologynews.com)



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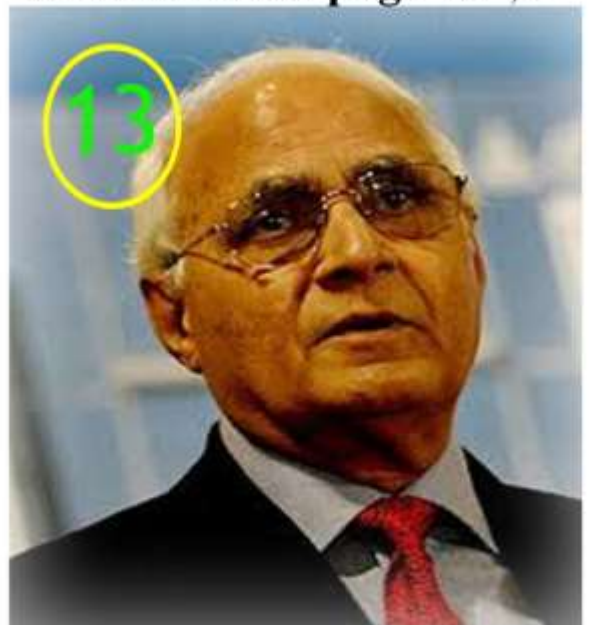








ANSWERS at page 12 



# Digiflash Deeds

## Mobile App Workshop:

This session was conducted by Dr.Ragunathan for IT streams (CSE, IT, MCA 2nd and 3rd years) on February 11 from 9.00 am to 5.00 pm at MIC (Microsoft Innovation Center). The total number of participants was 320 members.



## App-a-thon:

This event was conducted for IT streams (CSE, IT, MCA 2nd and 3rd years) on February 11 from 9.00 am to 5.00 pm at Lab-1. The total number of participants was 20 members.

# FEBRUARY DEEDS...

## UTSAV Valediction:

The valedictory function was conducted on February 11 from 4.00 pm to 5.00 pm on NPT Hall No.1. The session was presided by Dr.A.Rathinavelu Vice-principal, Dr.MCET, Prof.A.Gowrishankar, H.O.D, CSE (UG) and by the participants and Digiflash office bearers.



# TOP 10 IT COMPANIES IN INDIA

India is one of the biggest hubs for IT companies the world over. With global companies looking to make their way into the Indian IT sector, there are a tremendous number of Indian IT Companies which have impacted the industry in a big way. Here is a list of the top 10 IT companies in India 2014. At bottom of the list we have rising companies like Rolta, Polaris, Mindtree with Revenues near Rs. 2000 Crores. In the middle we have Oracle Financials, Mphasis, Tech M, HCL and towards the Top giants like TCS, Infosys and Wipro.

-Revenue: Rs 47779 Cr.

## 1)Tata Consultancy Services:

TCS (founded in 1968) is headquartered in Mumbai, India and is the leading company in IT services and IT consulting in India. Its founder was the much renowned J.R.D. Tata & is currently led by Mr.Natarajan Chandrasekaran at the CEO position. It has around 300,464 employees spread across 46 countries across the world. This company has also been added to the 'Big 4' most valuable IT services brands worldwide with IBM, HP and Accenture. TCS has been able to maintain its number 1 position in Indian IT industry since a long period of time and has also been ranked amongst the top worldwide.TCS and its 59 subsidiaries provide a range of information technology-related products and services including application development, business process outsourcing, capacity planning, consulting, enterprise software, hardware sizing, payment processing, software management and technology education services.



## 2)Infosys

- Revenue: Rs 32975 Cr.



Infosys (founded in 1981) is led by the renowned Mr. Narayan Muthi and is headquartered in Bangalore, India. It has global presence with 73 offices and 94 development centers in the United States, India, China, Australia, Japan, Middle East, and Europe, giving employment to around 160,405 employees worldwide. Infosys provides software development, maintenance and independent validation services to companies in banking, finance, insurance, manufacturing and other domains. From a capital of about US\$ 250, it has grown to become a US\$ 8.25 billion (FY14 revenues) company with a market capitalization of approximately US\$ 31 billion. Apart from its IT service excellence Infosys has been ranked among the 'Top Ten Greenest Brands in India,' according to a consumer survey conducted in 2011 by Cohn & Wolfe. Infosys has been

Hence, for over three decades, Infosys as a company focused on bringing to life great ideas and enterprise solutions that drive progress for clients.

### 3) Wipro

- Revenue: Rs 28312 Cr

Wipro founded in 1945 by Mr. MH Premji (current CEO Mr. TK Kurien), has 146,053 employees spread across 61 countries. Wipro Limited is a global provider of comprehensive IT solutions and services, including Systems Integration, Consulting, Information Systems outsourcing, IT-enabled services, and R&D services. It is also a value added reseller of desktops, servers, notebooks, storage products, networking solutions and packaged software for international brands. To focus on core IT Business, it demerged its non-IT businesses into a separate company named Wipro Enterprises Limited with effect from 31 March 2013. This company offers services in healthcare, infrastructure etc. and contributed to around 10% of the profit.

-Revenue: Rs 11925 Cr.

### 4) Tech Mahindra



Tech Mahindra is part of the \$12.5 billion Mahindra Group, in partnership with British Telecommunications plc (BT), one of the world's leading communications service providers. It was founded in 1986 and currently has its headquarters in Mumbai, India.

The merger with Mahindra Satyam in the year 2013 has helped it climb the ladder from the number 5 to the number 4 as compared to last year's statistics and hence now the complete entity has 89,500 employees, servicing 540 customers across 49 countries.

### 5)HCL Technologies

- Revenue: Rs 11792 Cr

HCL Technologies is a \$5.2 billion global company bringing IT and engineering services expertise under one roof to solve complex business problems for customers. It was founded in 1991 and is currently headquartered in Noida, India and serves around 31 countries worldwide. It has a high resource base of around 90,190 employees. Shiv Nadar and Anant Gupta lead the organization the former as the Chairman and the latter as the CEO and President. HCL Technologies has made it on the Forbes Global 2000 list and is one of Asia's Fab 50 Companies.



Employees first, Customer Second" is its logo which according to the company acts as an energy booster for its employees and hence helps engaging its employees in a way that allows them to deliver business value – whether it involves enterprise application services, IT infrastructure management, custom application services, engineering and R&D services, business services or enterprise transformation services.

## 6) Mphasis

Mphasis (then, Mphasis BFL Limited) was formed in June 2000 after the merger of the US-based IT consulting company Mphasis Corporation (founded in 1998) and the Indian IT services company BFL Software Limited (founded in 1992). It is a Bangalore based IT services company majority owned by Hewlett-Packard and is led by Mr. Balu Ganesh Ayyar as CEO. It has offices in more than 19 countries and in India it is present in almost 11 locations. Consistently Mphasis has delivered superior global Infrastructure Technology Outsourcing, Applications Services Outsourcing and Business Process Outsourcing services through a combination of technology know-how, domain and process expertise.

- Revenue: Rs 2433 Cr



## 7) Oracle Financial Services

- Revenue: Rs 2396 Cr

Oracle Financial Services (founded in 1990) has headquarters in Mumbai, India. It is a subsidiary of Oracle Corporation and claims to have more than 900 customers. Oracle Financial Services Software has a strong global reach with a sales, marketing and support presence in 27 overseas locations operating under four subsidiaries (Oracle Financial Services Software, Inc. in the USA, Oracle Financial Services Software b.v. in The Netherlands, Oracle Financial Services Software Pte. Ltd. in Singapore, and iPSL in India). In addition, the Company is represented in over 85 countries through over 32 corporate business partners.

## 8) Mindtree

- Revenue: Rs 2208 Cr

Mindtree (founded in 1999) is headquartered in Bangalore, India and has a corporate office in New Jersey, USA. The company with its 13000+ employees is led by Mr. Subrorto Bagchi and Mr. Krishnakumar Natarajan, the former as the Chairman and the latter as the CEO. The two were also the founders of the company; they had the idea of starting up an IT services company and were already, in some sense, industry icons with Bagchi being the chief executive of Wipro's R&D team and Natarajan being the chief executive of Wipro's e-commerce division.



Mindtree has been able to grow fast with around 28 offices located across USA, Netherlands, Sweden, UK, Germany, France, Switzerland, Belgium, Australia, Singapore, China, UAE and India. It follows a consulting driven approach and caters to over of 40 Fortune 500 enterprises.

### 9) Polaris Technology

- Revenue: Rs 1487 Cr

Polaris (founded in 1993) has its headquarters in Chennai, India and has around 12,500+ employees spread worldwide. It is a provider of financial technology products, legacy modernization services and consulting for core banking, corporate banking, wealth & asset management and insurance. Arun Jain is the current CEO and Chairman and Govind Singhal is the current President and COO. In April 2013, Polaris launched its 8012 FT Design Center - the world's first Center dedicated to Financial Technology. 8012 FT Design Center is spread over 30,000 sq. ft and is located in the 22 acre Polaris campus on the IT Highway in Chennai. In a quest for knowledge opportunity, spanning over the last 2 decades (11 years as Polaris), Polaris has established its solutions and services footprint globally contributing to the realization of its business vision.

### 10) Rolta India

- Revenue: Rs 1083 Cr

Rolta India (founded in 1989) is headquartered in Mumbai, India and is led by Mr. Kamal K Singh as the current CEO and Managing Director. The company has various branches in various parts of India (Mumbai and Gurgaon) and Canada. Rolta employs around 5000 professionals and has a countrywide infrastructure and international subsidiaries across the globe. Services provided by Rolta India include geospatial engineering design such as plant design and mechanical design solutions and services, plant information management services and engineering design services for ship building and other applications, eSecurity services and solutions along with software development services such as high end games development and software testing. Recently Rolta India Ltd. had won a \$31 million contract from Memphis Light gas and Water (MLGW) to provide consulting, systems integration and software services to the largest three-service municipal utility in the US.

## FIND THE FAMOUS PERSONALITIES

### ANSWER

1. Shashi and RaviRuia
2. Sunil Mittal
3. Savitri Jindal
4. Adi Godrej
5. Dilip Shanghvi
6. Hinduja Brothers
7. Azim Premji
8. Anil Ambani
9. Mukesh Ambani
10. Laxmi Mittal
11. Kumar Mangalam Birla
12. Pallonji Mistry
13. Kushal Pal Singh

# Time-Saving Computer Tricks -For Beginners

When inexperienced computer users scroll a Web page using the down arrow on their keyboard or look for specific information in a PDF by running their eyes down each page, we realized just how many tiny tricks and tips there are that make more experienced computer users faster at what they do.

Here are ten of those tricks that one should learn.

## 1. Use Ctrl+F to Search a Web Page or Document

When there's a specific word you want to find on a webpage or in practically any kind of document (PDF, Word docs, etc.), hit Ctrl+F, and a little search bar will appear in the upper right or left corner (depending on which application you're using). Type the word you want, and the program will bring you to the first instance and, in some cases, highlight all instances. Depending on the application, if there are multiple instances, you can jump ahead to the next or previous one by using arrows that usually appear in the search box.

## 2. Use Spotlight Search, Menu Bar, and Taskbar to Start Up New Programs

In both Windows and Mac computers, the fastest way to launch a new application is not by finding the desktop shortcut icon and clicking it. No, no, no!

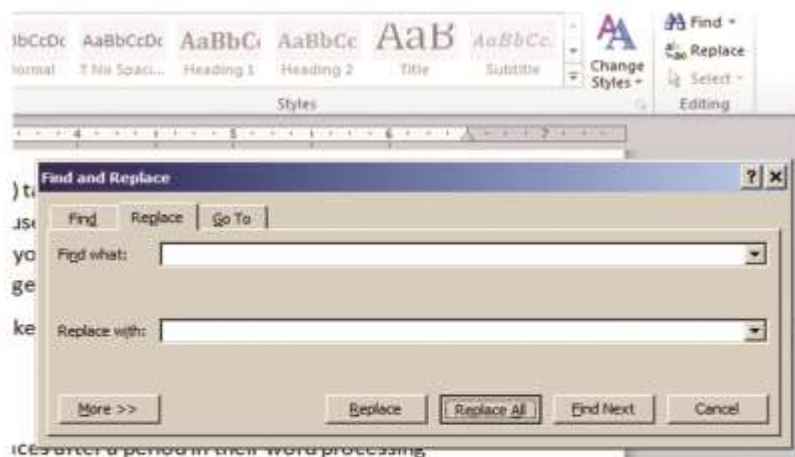
In Windows 7, you can do a quick search from the Start button. Or you can just pin your most frequently-used programs to your Taskbar. Just launch the programs you want in your old-fashioned way, and then right-click on the icons that appear in the Taskbar. Select "pin this program to the taskbar" and now it will always be there.



## 3. Scroll Faster Using the Space Bar

Scrolling through a long Web page (like a BuzzFeed listicle) takes ages using the mouse wheel, cursor on the scrollbar, and certainly the down arrow key. Instead, use the space bar to jump down one full screen at a time. Add Shift to the equation (Shift+spacebar), and you'll scroll up a full screen with each press. Hold down the space bar, and reach the bottom of the page fast as can be.

If pressing the space bar doesn't seem to do anything, make sure that the cursor isn't in a text field on the page.



## 4. Find/Replace

The only thing worse than people who still use double spaces after a period in their word processing files are people who complain about double-spacers. Why? Because it's simple enough to clean them up with a simple find/replace. In Word, the tool is called Replace, and it's in the Home menu tab all the way on the far right. Or you can just press Ctrl+H for an even shorter cut. In the dialog box, put two spaces into the "find" field and one space into the "replace" field. It doesn't look like anything, but it works. Hit "replace all" and you're done.

I always run this command twice back to back just to make sure I catch any triple spaces that might have gotten past me the first time around (because Word would read that as one double space, which it would correct to a single space, followed by one more single space).

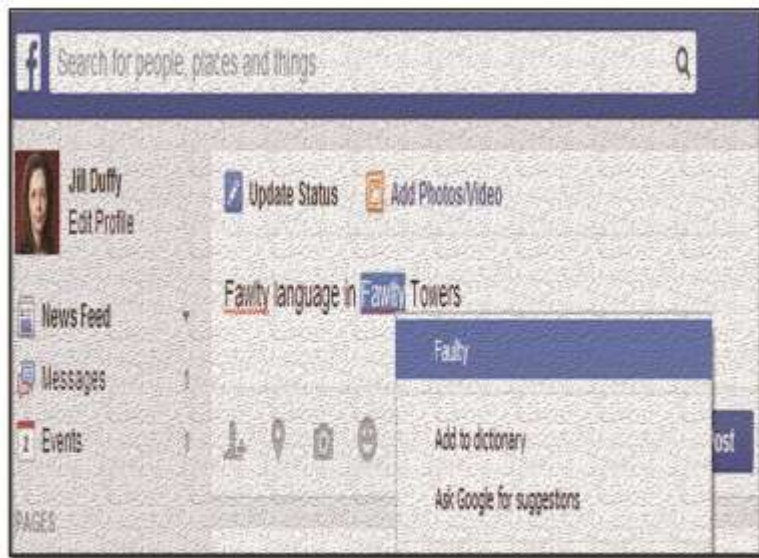
## 5. Don't Type Usernames and Passwords

You should never have to type your username or password to log into any online account. Why? Because you should be using a password manager, and the best password managers auto-complete those details for you. Using a password manager is much more secure than trying to remember and type all your passwords. Plus, it speeds up your online activities, whether you're noodling around on Facebook or checking your bank statements.

There are other tools that can remember your usernames and passwords to auto-fill them for you, too (Apple's iCloud Keychain, AutoFill in Chrome, and many others), but we at PCMag recommend using a password manager because they come with many other benefits.







## 6. Correct Poor Spelling Nearly Everywhere With a Right Click

Many people know that a red squiggly underline in Microsoft Word means a word is spelled incorrectly (or at least that Word doesn't recognize it). But fewer realize that the same spellcheck convention is used in many browsers, including Chrome and Firefox.

If you see that red squiggly warning while you're typing in Facebook, Gmail, or any other site, just right-click on the word for suggested corrections.

## 7. Search From the Browser Bar

Don't go to the browser bar and type in "google.com" when you need to search for something online. Just type your search terms right into the browser bar. Most browsers' URL bars automatically double as an online search bar, and those that don't have plug-ins you can install to it so. Typically, you can decide which service it will use to carry out the search: Google, Bing, Yahoo! Search, DuckDuckGo, and so forth. You can set this as a preference in your browser.

## 8. Look Up! Use Type-Ahead Suggestions



Here's another search tip: Use the type-ahead suggestions that appear as you key in your search terms. People who turn their eyes down at the keyboard instead of up at the screen routinely

type for way longer than they need to. Try it. Look at the search bar as you type "When did the" and watch as suggestions appear. If the one you want turns up, use the down arrow keys or your mouse to select it and hit enter or click. For searches that are long or use hard-to-spell names, type-ahead suggestions save loads of time.

## 9. Drag a Browser Tab Out

During a Web-conference the other day, the presenter said to me, "I'm sorry, but you're going to see a lot of other tabs open when I share my screen." My thought was, "Why doesn't she just drag out the tab she wants? That way I won't see whatever other pages she has open."

If you have 20 tabs open in your Web browser, and there's one that you really need to focus on for a time, just click on that tab and drag it out. It will become its own window. Enlarge it to be the full screen size, and you'll be able to focus on that site alone. (Or you can learn how to control tabbed browsing in the first place.).



## 10. Add "site:" to Search Specific Domains

Let's say you remember that The New York Times published a killer no-knead bread recipe a few years ago, and you want to find it. You could search online for "no-knead bread" and hope the right recipe comes up, or you could add to your search this phrase "site:nytimes.com" to get results only from the Times.

Any time you add "site:" to a search, it restricts the results to the domain you specify. This works in Google, Bing, Yahoo!, DuckDuckGo, and pretty much any other major search site.

Reference: <http://www.pcmag.com/>

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