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## Toxic In Large Quantities: Personal Information in the Information Age

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## Toxic In Large Quantities: Personal Information in the Information Age

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# Toxic In Large Quantities: Personal Information in the Information Age

Posted on **February 1, 2007** by **Editor**



**By Alex Feinman**

## About

You, the people, are lagging behind in an important technology area: the ability to make use of your own personal information.

For at least ten years, and probably twice that for the smarter companies — and at least thirty for the insightful credit card industry — companies that track their consumers have held a competitive advantage over those that don't. They also have an advantage over you. They know you better than you know yourself, and use that information to their profit.

I mean this literally. Do you know how much you spent on gas last year? Some of you may, if you keep accurate records. But all of your credit card companies do. Do you know which pages you looked at the most on Amazon last year? Do you have a good feeling about what movie you would like to see tonight? Are you more likely to buy two 3-liter soda bottles or three 2-liter ones, if you had a big party? What discount would make you buy generic soda over name-brand? Who is the person you IM with the most? Who is the person who sends you the second-most email? How long on average does it take you to respond to email, and who is the person you respond to the most quickly? Which of your friends has the best credit rating?

These are all answers that other people have that you probably don't. This is the curse, and the blessing, of the information age. For the first time in history, other people know more about you than you yourself do.

To illustrate this point refer to the two halves of Figure 1, which show how much info is known about you by various parties. In past days, you knew yourself pretty well; your friends and acquaintances might know as much or less; and strangers knew next to nothing about you. This

arrangement is intuitive and feels natural. In the modern era, however, this situation is altered — you know the same about yourself as ever, your friends likewise, but complete strangers know you better than you know yourself.

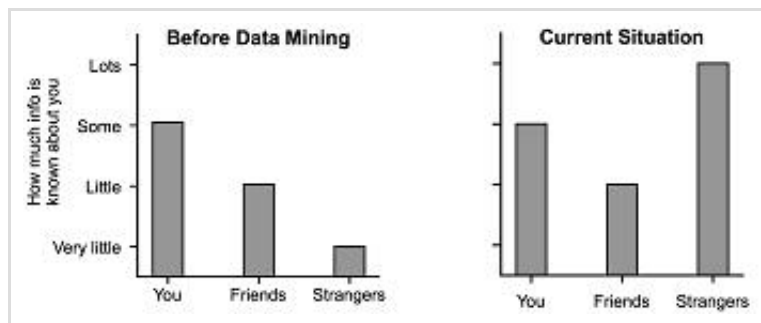


Figure 1: Strangers know you better than you know yourself.

This trend toward greater information sharing and processing is unlikely to reverse. Two reducti ad absurdum exist: the panopticon, where everyone can find out everything about everyone else at any time; and the info prison, where we spend 100% of our time safeguarding information and sending out info ‘chaff’ to confuse the pattern recognizers. Neither is likely to occur. The course we’re on now follows down the middle, where information availability coupled with information processing technology availability creates an ever-increasing imbalance of power between the analyzers (Citibank, Google, the NSA, and your stalker) and the analyzees (you), with information really only flowing one-way. While it costs you nothing to have your information collected, it puts you at a competitive disadvantage. As anyone who has been the target of successful targeting advertising knows, yielding information superiority to anyone is a recipe for being disadvantaged; your superiors are one step ahead of you, able to affect your decision-making and guide your behavior. For “which fast-food place should I eat at?” this is annoying but not terrible; for “which country should we be at war with?” this is world-changing.

## How It Works

The first step is collection. Everyone else in the universe is better than you at data collection. Credit cards maintain records of your transactions and routinely attempt to profile your actions, for security, credit risk assessment, targeted marketing. Many retailers maintain a database with your past purchase history in it, and will classify you into a stereotype to send you the catalogue with the best chance of a sale. Online, collection gets even easier and more prevalent: websites you visit track what you click on, when, and so forth. Same thing for email — if you use Google Mail, then Google knows best whom you send email to; Yahoo Mail gives Yahoo! access to all your correspondence. Finally, the network traffic itself is interceptable and monitorable. An ongoing lawsuit by the EFF alleges that a government agency, the NSA, has installed machinery at crucial points in the internet infrastructure to examine and process internet traffic [1].

Once collected, the information needs to be aggregated with comparable information from other people, and refined. Companies with a business model that draws in large numbers of users,

therefore, have a competitive advantage here, benefiting large businesses and monopolies, and impairing small businesses and individuals.

The next step in mining for information is inferencing. Suppose you have recorded all of your actions, entered relevant personal information, and collected all your old emails back for twenty years. (I have fifteen years collected, personally.) What the heck do you do with all this information? You need clever inferencing algorithms to sort through the heaps of information and come up with conclusions. Companies have a profit motive for pursuing these algorithms secretly, and they're getting much better at it.

This process is perhaps most visible at Amazon, which does a creditable job of explaining to you why and how they act on information that they collect or that you give them. Other sites are more subtle; Google aggregates what it finds in your search behavior, email messages, and chat conversations to present relevant ads and to improve search quality, leading to a system that learns who you are and what you are likely to click on. They spend more than you ever will on technology to track whom you talk with and what you talk about, under the initiative of placing more and more intelligent ads beside your email. Have you noticed an uncanny accuracy in those ads as of late? They're watching what you do, and creating very clever algorithms to figure out what it all means. AdWords provides the profit motive to drive this research — the algorithms look for patterns of related things, and then see if anyone is offering to sell something along those lines. Find "Saints" and "Sunday" and, depending on whether "church" or "arena" is present, deliver links on prayer books or play books. There's money to be made here for well-targeted advertisements, and so research proceeds.

### **Toxic When Concentrated**

An unintended side effect of all this collection and inferencing is the warehousing of refined information. Information is a lot like toxic waste. Toxic waste can be something that is innocuous in ambient quantities — let's say benzene, which occurs naturally in small quantities, or U-238, which is usually mixed in with other stuff — but has been collected for industrial purposes. The concentration makes it very dangerous, and very hard to get rid of. It's hard to store, it's hard to transport, and it's dangerous to be around.

Spread out a lot and dilute, information is relatively harmless. The fact I spent \$5.50 on lunch yesterday is moderately interesting, but not significant. However, when you concentrate lots of information in one spot, or reduce it through algorithms in to concentrated information, it becomes VERY dangerous. As an example, think of the recent laptop thefts with millions of bits of sensitive info on them. You may have been one of the lucky millions to receive a form letter as a result of intrusion into TJX computers resulting in the theft of purchasing information. These incidents will grow more and more frequent as long as the value of the concentrated information exceeds the cost to steal it.

As a result, any concentration of information has to be treated as if it were toxic waste — it

needs to be carefully protected, it needs contingency plans in case of leaks or other disasters, and it must be handled by trusted operators following fault-tolerant protocols. Collections of concentrated information are valuable and dangerous, and must be treated carefully or disposed of properly. Personal info is a like toxic waste, except it's reasonably easy to get rid of (though not trivial; hitting 'delete' will only stop a novice retriever). But it's treated the same as toxic waste was a hundred years ago, plopped on open servers, or left on drives when they're end-of-lived, or allowed to wander around on laptops with zero to minimal security. Once it occurs, an info leak is very costly to recover from — it may be impossible, or it may take many years to really ameliorate the impact of information released into the wild. The rise in identity theft has taught to thousands the harsh lesson of how difficult it is to recover from such a theft.

We need rules about how information is aggregated and used, and what must happen to it when it reaches a certain level of concentration; but it's very hard to quantify this. Government secrets are protected through elaborate rituals, usually the moral equivalent of stuffing the information in a black box and taping the lid closed. Information is Secret until it goes through a cleaning process (which, yes, can involve a human with a black pen) to approve it for general release. But that doesn't work for aggregation of innocuous information. In the course of our daily lives we give away innocuous information all day — one of our most dangerous secrets, our credit card number, is sent over an unsecured, unencrypted telephone line every time we use it in a store, never mind passing through at least one uncontrolled piece of electronics (the reader) on the way.

There's just no way to avoid it. Purchasing patterns are necessarily the business of at least the buyer and the merchant, and possibly countless middle men on the way. But selling that information is also a profitable business, furthering the spread of personal information — in recent years, charities have made so much money selling their contact lists to less reputable companies that the allure of selling this refined information is nearly inescapable. Minnesota Public Radio was sued over its potentially misleading practices in sharing its donor-member list with other markets — such as the Democratic National Committee — resulting in new requirements for revealing how personal information will be shared with other businesses. Unfortunately, this sharing benefits industry far more than it benefits you — and while new regulations restrict how personal information can be shared and disclosed, the simple fact is that law cannot eliminate its capture, sharing, and processing.

### **Addressing the Imbalance**

At this point, the genie is out of the bottle: info collectors have the ability to know a lot about you, and use that information to their profit. It is extremely unlikely that this profitable capability will go away any time soon, either through technological privacy guards, or legal restrictions. It is difficult to explain to the average voter how valuable their personal information is, or why getting more accurate advertisements and better deals on the products they desire could be a bad thing, and without that sort of support it is impossible to build legislation strong enough to prevent information theft.

One way to ameliorate the situation is to attempt to reduce the gap between what they know and what you know. The first way is to increase what you know about others; and the second is to increase what you know about yourself. The first is a difficult and expensive proposition, and while important, does not really address imbalances of power: while it is important to know who you are dealing with, and to hold companies accountable for undesirable behavior, in the end it is their business to know something about you, while no one is paying you to check up on them. The latter situation, enabling you to understand as much about yourself as strangers do is a rational goal to aim for. To address the imbalance in information availability we can attempt to achieve some sort of symmetry in data mining by democratizing the process.

This bottom-up refining of information is already underway: the internet, while providing an easy way to observe behavior and gather information, also makes it easy to build and share thousands of refined information sources. Giving people the ability to share content, and then to refine that content, is the driving force behind many “Web 2.0” applications. Wikipedia allows successive generations of editors to refine raw content into useful information, makes cross-referencing straightforward, and allows easy access for all. Car forums give owners the chance to share experiences and data points, refine it into FAQs and archived discussions, and share this information to the benefit all users. Health community sites let patients compare symptoms, care options, and drug interactions, increasing the chances of catching drug prescription errors, missed diagnoses, and promoting self-awareness.

In contrast, in the personal information market — purchasing patterns, searching history, and so forth — there haven’t been any useful applications to date. Gathering your own personal information shouldn’t be hard, but it is. For example, your credit purchases could be available to you in a machine-readable format, so that you could analyze them yourself, or aggregate them with others to (for example) compare your spending with that of your peers. But getting credit card companies to provide this information can be problematic. Visa knows well how valuable that information, and will claim it’s some sort of hardship for them to provide machine-readable information to you in a timely, zero-cost fashion. It’s not technically hard — that information is stored in their machines in a useful format. It just has an opportunity cost to share, one which they will not pay without recompense. Shared sources of personal information are few and far between, maintaining the advantage these companies have achieved by recording and analyzing your behavior.

We can only hope that in the future we will develop applications that give us more ability to capture our own personal information, share it with others, and build up an understanding of our behavior.

Addendum: During the writing of this article, a new bill was introduced in the Senate which seeks to mandate reporting of the Federal agency use of data mining for identifying terrorist or criminal activity [2]. Congressional literature being notoriously difficult to thoroughly assess, I will not engage in an analysis of the bill here, but it is a good indication that the Congress is considering the issue of data mining and its potential implications for privacy.

## Notes

[1] Bamford, J. (2006) "Big Brother Is Listening", The Atlantic Monthly, April 2006. Accessed at: <http://www.theatlantic.com/doc/200604/nsa-surveillance>

[2] "EFF's Class-Action Lawsuit Against AT&T for Collaboration with Illegal Domestic Spying Program," Electronic Frontier Foundation. Accessed on 9 Feb 2007 at <http://www.eff.org/legal/cases/att/>

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42 THOUGHTS ON "TOXIC IN LARGE QUANTITIES: PERSONAL INFORMATION IN THE INFORMATION AGE"

**belt sander reviews**

on **January 31, 2014 at 10:22 PM** said:

I am curious to find out what blog platform you have been working with? I'm experiencing some minor security problems with my latest website and I would like to find something more safe. Do you have any solutions?

**Keenan Saarela**

on **February 1, 2014 at 12:47 AM** said:

Je pense que vous avez fait quelques points vraiment intéressants. Pas aussi beaucoup de gens seraient vraiment penser à ce sujet la façon dont vous venez de faire. Im vraiment impressionné que there's donc beaucoup sur ce sujet that's été découvert et vous l'avez fait si bien, avec tellement beaucoup de classe. Bien 1 vous, mec! Certainement choses fantastiques ici.

**warby parker promo code**

on **February 1, 2014 at 1:24 PM** said:

Exceptional post however I was wondering if you could write a little more on this subject? I'd be very thankful if you could elaborate a little bit further. Appreciate it!

**best garbage disposal**

on **February 1, 2014 at 5:08 PM** said:

Hey There. I found your weblog the usage of msn. That is a very smartly written article. I'll make sure to bookmark it and return to read more of your useful info. Thank you for the post. I'll certainly comeback.

**make money online posting ads**

on **February 3, 2014 at 9:45 AM** said:

excellent submit, very informative. I'm wondering why the opposite experts of this sector don't realize this. You should proceed your writing. I'm sure, you've a great readers' base already!

**Lookbook Store Coupon Code**

on **February 3, 2014 at 1:48 PM** said:

Hi, after reading this amazing piece of writing i am as well delighted to share my know-how here with friends.

**Flower Girl Dress For Less Coupons**

on **February 3, 2014 at 2:03 PM** said:

You're so cool! I don't believe I've read through something like that before. So nice to find another person with some original thoughts on this topic. Seriously.. many thanks for starting this up. This web site is something that is required on the internet, someone with a bit of originality!

**EverSmoke promo code**

on **February 3, 2014 at 7:14 PM** said:

I love reading through an article that will make men and women think. Also, thanks for allowing me to comment!

**best espresso machine**

on **February 3, 2014 at 9:29 PM** said:

Appreciate this post. Let me try it out.

**Flower Girl Dress For Less Discount Codes**

on **February 3, 2014 at 10:44 PM** said:

Its not my first time to visit this website, i am browsing this web site dailly and take nice data from here everyday.

**best vacuum for hardwood floors**

on **February 4, 2014 at 12:57 AM** said:

Great post. I am going through some of these issues as well..

**exercise bike reviews**

on **February 4, 2014 at 1:50 AM** said:

Remarkable issues here. I am very happy to peer your article. Thank you a lot and I'm looking ahead to touch you. Will you please drop me a e-mail?

**best humidifier**

on **February 4, 2014 at 5:33 AM** said:

If some one wants to be updated with most recent technologies then he must be pay a visit this web page and be up to date every day.

**induction cooktop reviews**

on **February 4, 2014 at 8:26 AM** said:

Have you ever considered about including a little bit more than just your articles?

I mean, what you say is important and everything. But think about if you added some great images or video clips to give your posts more, "pop"! Your content is excellent but with images and video clips, this website could undeniably be one of the greatest in its field. Superb blog!

**Wicked temptations promo codes**

on **February 4, 2014 at 8:42 AM** said:

Excellent beat ! I would like to apprentice while you amend your site, how can i subscribe for a blog website? The account aided me a acceptable deal. I had been tiny bit acquainted of this your broadcast provided bright clear idea

**save money on electric**

on **February 4, 2014 at 9:14 AM** said:

Howdy! I know this is kind of off-topic however I had to ask. Does running a well-established blog like yours take a large amount

of work? I'm completely new to running a blog but I do write in my journal daily. I'd like to start a blog so I will be able to share my experience and feelings online. Please let me know if you have any suggestions or tips for brand new aspiring blog owners. Appreciate it!

**post your classified Ad in easy steps|post free ads india & get faster results|Adlisa classifieds offers easy ad posting & article posting , posting Ad on adlisa is absolutely free**

on **February 4, 2014 at 9:55 AM** said:

Appreciation for an additional excellent document. The site altogether different may any person wardrobe form of information and facts in such the best method of creating? I have a display a few weeks, for in the seek out like info.

**africa**

on **February 4, 2014 at 10:15 AM** said:

Hurrah, that may be what I was seeking for, what a information! produce right here at this website, thanks admin of this website.

**nigeria entertainment news**

on **February 4, 2014 at 10:26 AM** said:

Attractive section of content. I just stumbled upon your weblog and in accession capital to assert that I purchase in fact enjoyed account your blog posts. Any way I will be subscribing for the augment and even I accomplishment you access consistently quickly.

**nigeria entertainment news**

on **February 4, 2014 at 10:34 AM** said:

I haven't witnessed the movie but, given the focus of this site, I observed this quote from an Indiewire article interesting:

**credit cards visa true credit report com equity rate ortho patch california  
accident attorney on track data recovery com credit report low interest  
consolidation loan www creditreport motorcycle lawyers on line psychology  
degree capital one radio online t**

on **February 4, 2014 at 10:41 AM** said:

Wow, this post is pleasant, my younger sister is analyzing these kinds of things, so I am going to inform her.

**Inexpensive Youtube**

on **February 4, 2014 at 12:24 PM** said:

Excellent weblog here! Also your web site a  
lot up fast! What web host are you using? Can I am getting your  
associate link in your host? I desire my web site loaded up as quickly as yours  
lol

**Heike**

on **February 4, 2014 at 3:09 PM** said:

WOW just what I was looking for. Came here by searching for web messenger  
fergie glamorous  
tibia multi ip changer  
dobie hs  
pithy  
5a5e  
sansa clip  
cupon de la once  
radyodinle  
american proxy  
www google co m

do it well  
tcfbank  
chelsea lately  
ã,½ăf·ăf¼ă,³ăf³ăf"ăf¥ăf¼ă,¿ă,"ăf³ă,¿ăf†ă,øăf³ăf¡ăf³ăfˆ  
banquepopulaire  
mucho sucko  
barbie girls com  
shoop da whoop  
barbie mariposa  
ĩ™")—¬ìžëĈĖĖ'•™êµ  
love in this club remix  
put you to bed  
chik fil a  
richland hs  
barras bravas  
vocabulary learning resources  
debora salvaggio  
moparscape org  
chino y nacho  
wkyc  
chistes verdes  
sad love  
estasmuerto com  
turkbet  
buszmenetrend  
pnbu  
chrisette michelle  
wall e trailer  
espnu  
tá» vi  
fmdos  
podrido com  
i miss you icons  
pic captions  
christiane plante  
nhac vang  
mahjong titans  
silverstein lyrics  
chronodrive  
orgish  
filme 2007  
www google copm  
105.9

om shanti om songs  
cifras com  
nudist gallery  
cifras de musicas  
search all videos  
gok wan  
wurden keine inhalte  
circunferencia  
íťµê³„ŕ²  
be imba  
pokemon pearl walkthrough  
frases cÃ©lebres  
watch scrubs online  
i am x ray  
trinchera norte  
ernest rutherford  
omen threat meter  
brooke marks  
www fanfiction net  
claudia lizaldi  
unblock youtube  
detnews  
tmobile wing  
clearclips  
nigella express  
bedirhan gÃ¶kÃ§e  
the skinny website  
cuny john jay college criminal justice  
purenudism  
closer lyrics  
trillian astra  
belive  
owen wilson suicide  
dancing with the stars results  
rock band game  
cloverfield trailer  
solder boy  
bellsouth mail  
sony ericsson x1  
animasi  
pasfotomaÃ§  
bucket list  
trig identities

ben10 com  
ã,ãf<sup>aa</sup>ãf·ãf¼ã,~  
coisas que eu sei  
reproach  
hairy everywhere  
rock band drums  
mark's bookmark  
msn hackleme  
guy hocquet  
ë¼î½"iŠα  
dylan efron  
telenet be  
hun's  
www youjizz com  
depremler  
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im a flirt  
wikipedia fr  
bro hoe  
one republic apologize  
collie budz  
xuite  
frenster  
windows dreamscene  
astrologyzone  
msn skins  
demyx  
www herold at  
idea star singer  
rac105  
ddd vids  
pop it off boyz  
ffx runner  
youporn com lite  
curs valutar bnr  
seriall  
mallu aunty  
super paper mario walkthrough  
13 days in hell  
samurize  
360 achievements  
php do  
dsc w80

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antivirus 2008  
serj  
best online photo management  
soldja boy  
implacable  
notisistema  
desolate  
mon classeur  
best price guarantee  
ziare si reviste  
feist lyrics  
whereis com au  
diccionario real academia espaÃ±ola  
por que no te callas  
evenimentul  
summer love lyrics  
across the universe movie  
tuneup 2008  
any who  
super mario bros z  
computers & peripherals  
stay lyrics  
lil wayne a milli  
www mediatakeout com  
concurso do inss  
wii perfect shot gun  
betch  
ranitidina  
feign  
one lyrics  
in the ayer  
naruto wiki  
love in this club lyrics  
www askjolene com  
budokai tenkaichi 3  
site da claro  
instalar msn  
xat com  
h2o mop  
muzÄ±k  
conquer club  
www ovguide com

2 girls one cup video  
tmj4  
big daddy v  
sistema excretor  
dia de la bandera  
neonbabes  
evan trembley  
summa cum laude  
dj furax  
superman that hoe  
love is wicked  
ncaa 08  
gta 4 gameplay  
woodside high  
impertinent  
sony ericsson z310  
fishy game  
soljia boy  
black and white backgrounds  
phim nguoi lon online  
listen lyrics  
oldversion  
correio braziliense  
reproductor 3gp  
hulk hogan divorce  
todocine  
david sides  
www cartoonnetwork com br  
hence  
posterity  
blast billards  
millenniumbcp  
blood elf  
revista interviu  
halo 3 beta  
pascualillo  
arancha bonete  
ya dig  
flow rida  
winrar vista  
arcadetown  
zumies  
cragislist

vanesa hudson  
enter keyword  
teenmodel  
crank that soldier boy  
resultat keno  
archos 605  
prevision del tiempo  
darering  
xxxmoviemart  
efestivals  
webassign  
ffvb  
www youtube ch  
filezila  
webkinz insider  
adobe dreamweaver cs3  
skip over navigation skip over navigation  
google sketch  
perfectgirls  
ffworld  
wsvn  
guitar hero 3 bundle  
rhymezone  
adobe premiere pro cs3

**Wicked temptations Discount Code**

on **February 4, 2014 at 4:24 PM** said:

You're so interesting! I do not believe I have read through a single thing like this before. So good to discover another person with a few original thoughts on this topic. Really.. thanks for starting this up. This web site is one thing that is needed on the internet, someone with a little originality!

**money formula**

on **February 4, 2014 at 5:18 PM** said:

Way cool! Some extremely valid points! I appreciate you penning this post plus the rest of the website is really good.

**work online part time jobs**

on **February 4, 2014 at 7:32 PM** said:

Hurrah! Finally I got a weblog from where I be able to genuinely get helpful information regarding my study and knowledge.

**warby parker Coupon Codes**

on **February 4, 2014 at 8:44 PM** said:

I used to be able to find good information from your articles.

**Gregorio**

on **February 4, 2014 at 8:56 PM** said:

Hmm is anyone else having problems with the images on this blog loading?  
I'm trying to determine if its a problem on my end or if it's the blog. Any suggestions would be greatly appreciated.

**make money from home proofreading**

on **February 4, 2014 at 10:10 PM** said:

This article will assist the internet people for creating new web site or even a blog from start to end.

**best shoes for crossfit**

on **February 4, 2014 at 10:20 PM** said:

I don't even know how I ended up here, but I thought this post was great.  
I don't know who you are but definitely you are going to a  
famous blogger if you aren't already 😊 Cheers!

**Jorg**

on **February 5, 2014 at 12:03 AM** said:

What's up it's me, I am also visiting this web page regularly, this website is truly  
fastidious and  
the viewers are actually sharing nice thoughts.

**warby parker promo code**

on **February 5, 2014 at 1:21 AM** said:

Awesome site you have here but I was wanting to know if  
you knew of any forums that cover the same topics talked about  
in this article? I'd really love to be a part of group where I can get feedback from other  
knowledgeable people that share the same interest.  
If you have any suggestions, please let me know. Cheers!

**few make**

on **February 5, 2014 at 2:22 AM** said:

It's remarkable to go to see this web site and reading  
the views of all mates about this post, while I am also zealous  
of getting experience.

**best electric kettle**

on **February 5, 2014 at 2:36 AM** said:

Thanks for the marvelous posting! I really enjoyed reading it, you are a great author. I will make certain

to bookmark your blog and will eventually come back sometime

soon. I want to encourage continue your great writing, have a nice weekend!

**Simplilearn Coupon**

on **February 5, 2014 at 8:08 AM** said:

I know this is off topic but I'm looking into starting my own blog and was wondering what all

is needed to get setup? I'm assuming having a blog like yours would cost a pretty penny?

I'm not very internet savvy so I'm not 100% certain.

Any tips or advice would be greatly appreciated. Thanks

**John**

on **February 5, 2014 at 8:50 AM** said:

Hi there, just wanted to tell you, I liked this post. It was helpful.

Keep on posting!

**Save Money**

on **February 5, 2014 at 1:32 PM** said:

It is truly a nice and helpful piece of information.

I'm happy that you shared this useful information with us.

Please keep us up to date like this. Thank you for sharing.

**investing key terms**

on **February 5, 2014 at 2:55 PM** said:

When some one searches for his vital thing, thus he/she needs to be available that in detail, thus that thing is maintained over here.

**Make Money Online Opportunities**

on **February 6, 2014 at 1:31 AM** said:

I have learn a few just right stuff here. Definitely worth bookmarking for revisiting. I surprise how so much effort you place to make this type of wonderful informative website.

**Hong Callendar**

on **February 6, 2014 at 1:56 AM** said:

Salut, savez-vous au sujet des produits qui peuvent nous aider à ce sujet?

**Fasttech Coupon Codes**

on **February 6, 2014 at 4:36 AM** said:

Hello colleagues, its fantastic piece of writing about teachingand entirely defined, keep it up all the time.

**ways to make money**

on **February 6, 2014 at 9:08 AM** said:

Hello There. I found your blog using msn. This is a really well written article.  
I will be sure to bookmark it and return to read more of your useful information.  
Thanks for the post. I'll definitely comeback.