

**MSIA Program  
School of Graduate Studies  
Norwich University**



**NORWICH  
UNIVERSITY™**

*Expect Challenge. Achieve Distinction.*

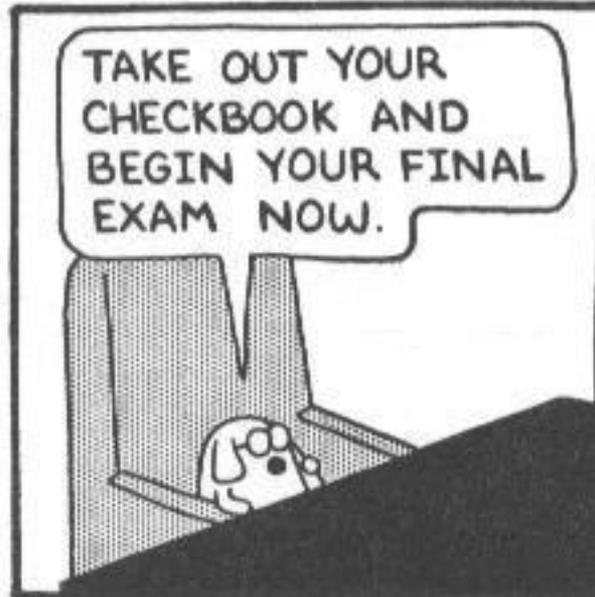
# ***MSIA REVIEW COURSE***

***M. E. Kabay,  
CISSSSSSSPPPPP – ISSSSSMMMMPPPPP  
Help! My keyboard has sticky keys!!***



**In this course we will  
review important  
principles you have  
learned in your studies  
in the MSIA.**

*Always know  
what to expect!*



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# How to use a computer:





# *How to use a CD:*



# *How to use the keyboard:*





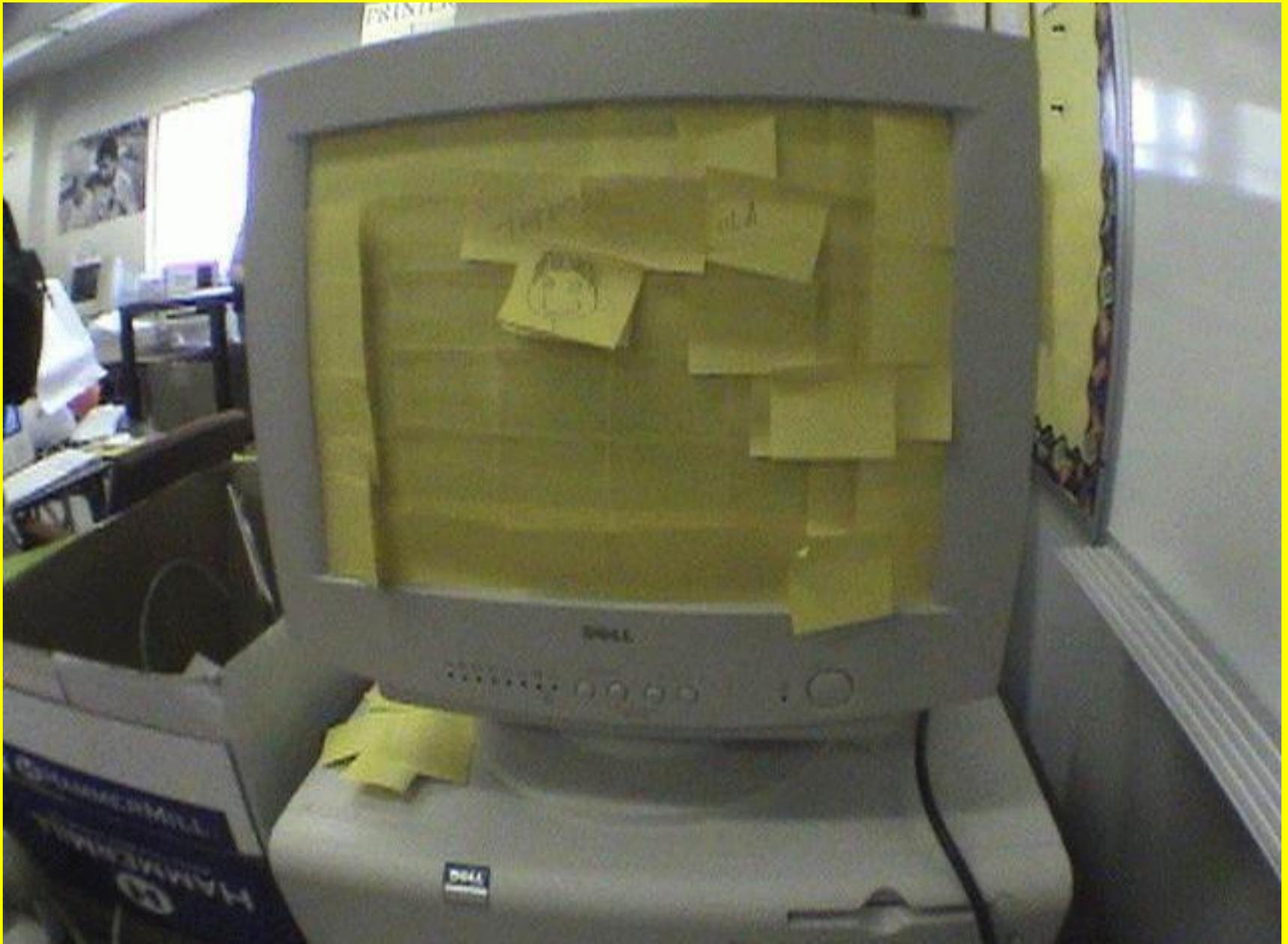
# *How to use the mouse!*



*What key to press  
when you don't know  
what to do:*



# *How to take notes on a computer:*



# *How to configure your ideal workstation:*



Alexey Soloviev <http://solo.design.ru>

# *How to take your work home:*



# How to install a program:



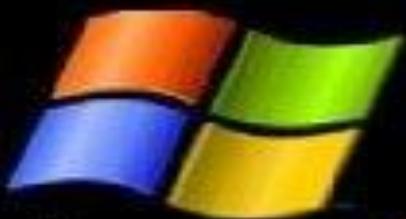
# *How to maintain your computer:*



# *Tools you need to fix your computer:*



*Use the  
right tools:*



Microsoft  
**Windows**<sup>xp</sup>  
**Repair  
Kit**



# *How to install a CPU fan:*



# *How to keep your desktop tidy:*



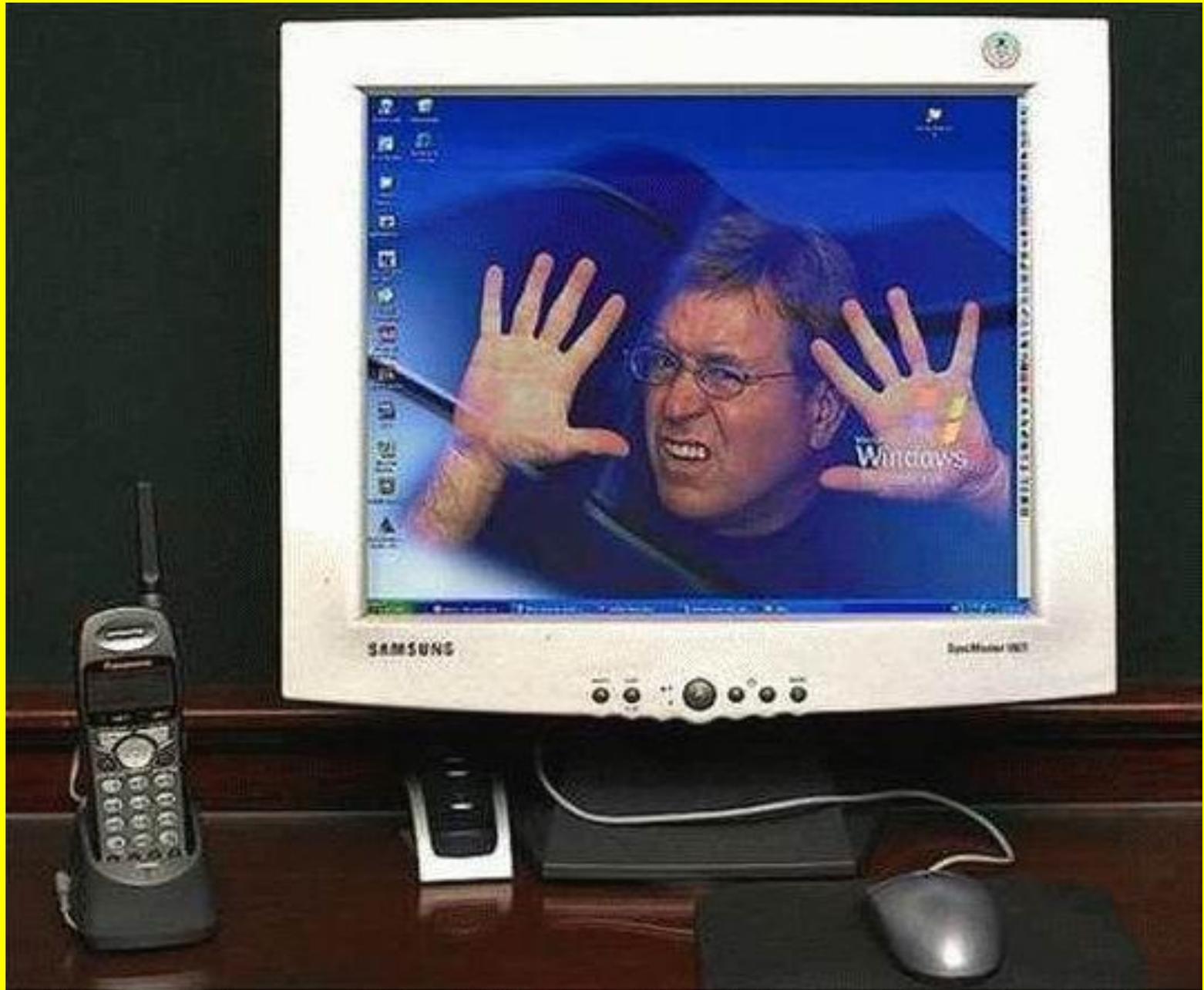
# *How to get rid of a virus:*



# *How to clean your computer of adware and spyware:*

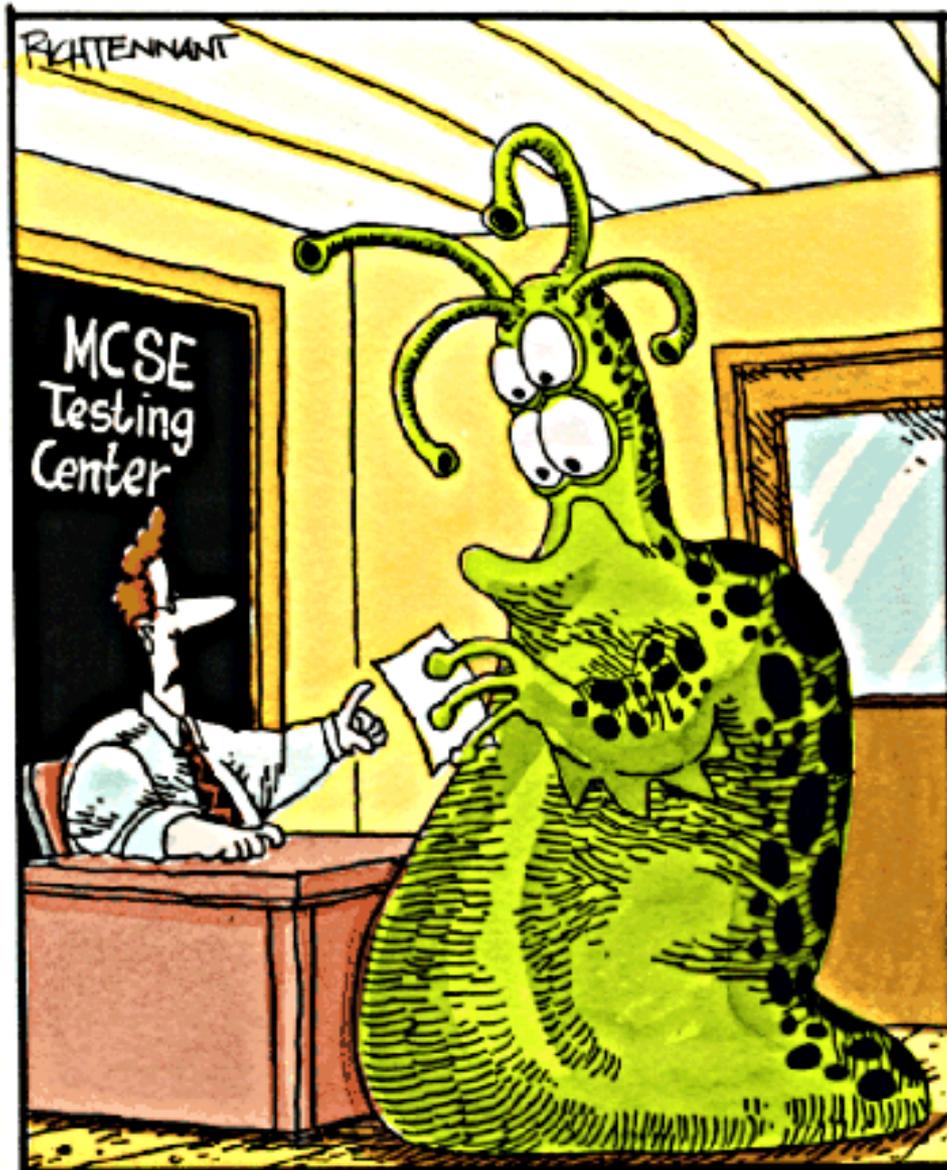


Try not to be  
a slave to your  
computer



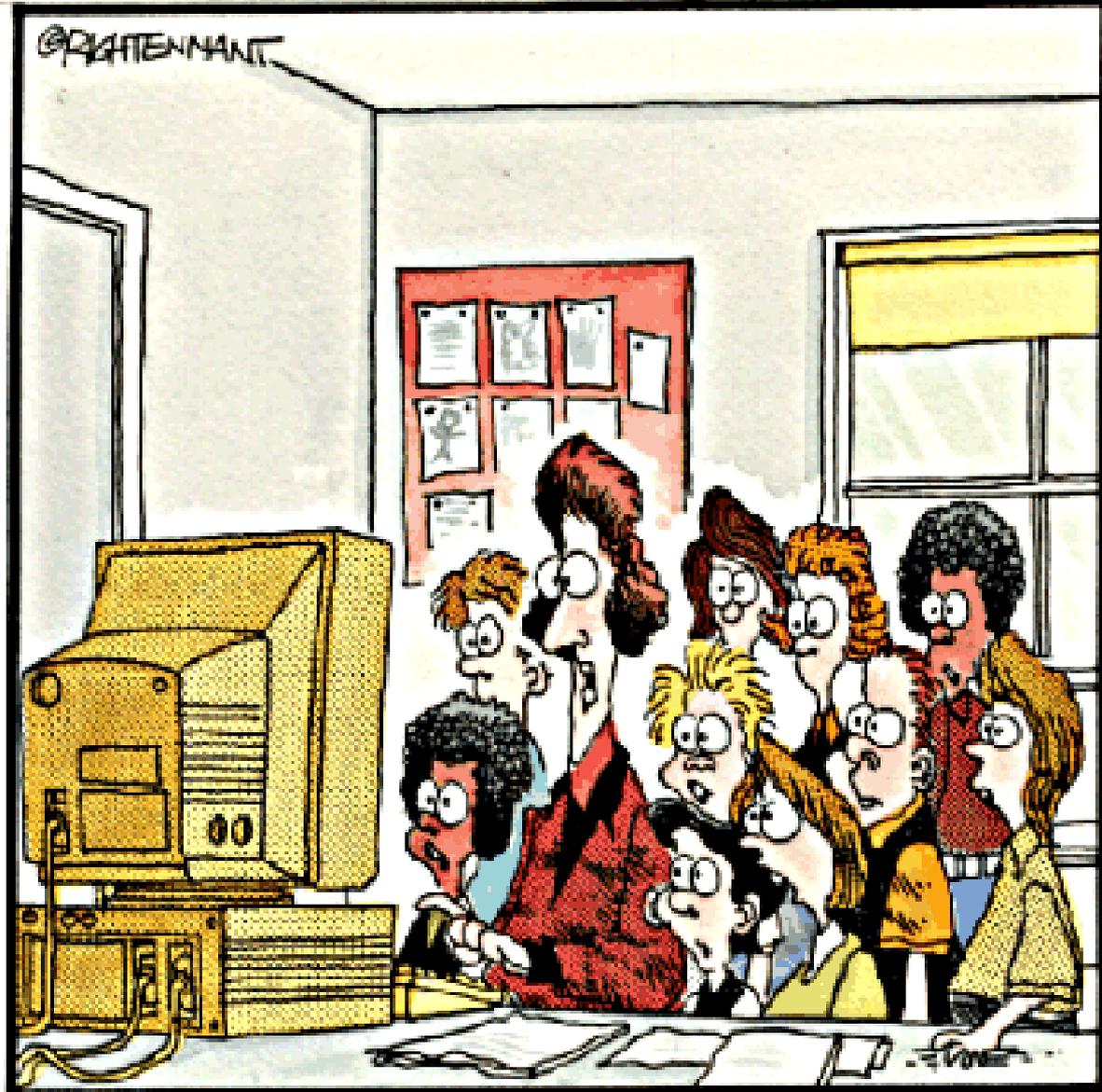


*Take the right  
certification tests!*



"...and it doesn't appear that you'll have much trouble grasping some of the more 'alien' configuration concepts on this MCSE exam."

*Be precise  
in your research:*

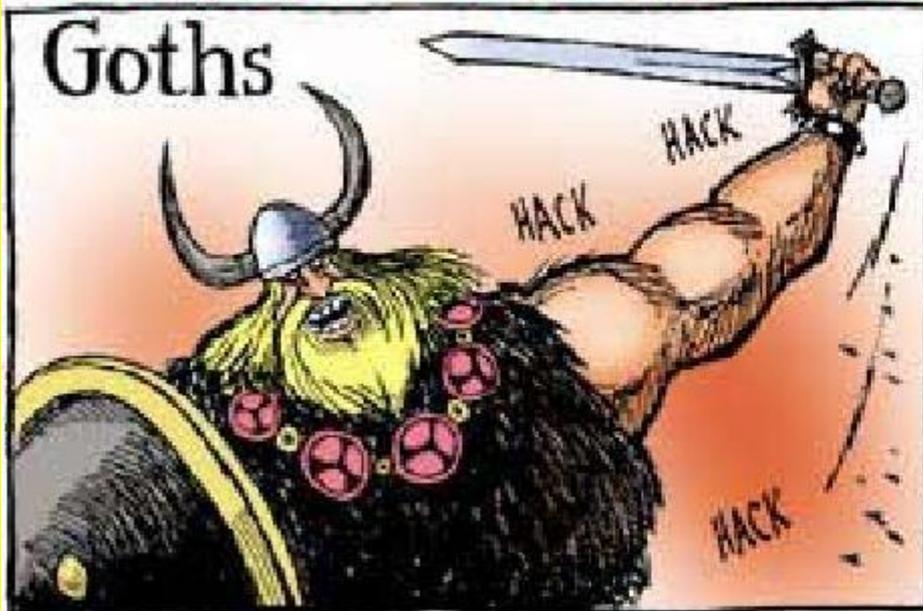


"NOW, THAT WOULD SHOW HOW IMPORTANT IT IS TO DISTINGUISH 'FERTILIZING PRACTICES' FROM 'FERTILITY PRACTICES' WHEN DOWNLOADING A VIDEO FILE FROM THE INTERNET."

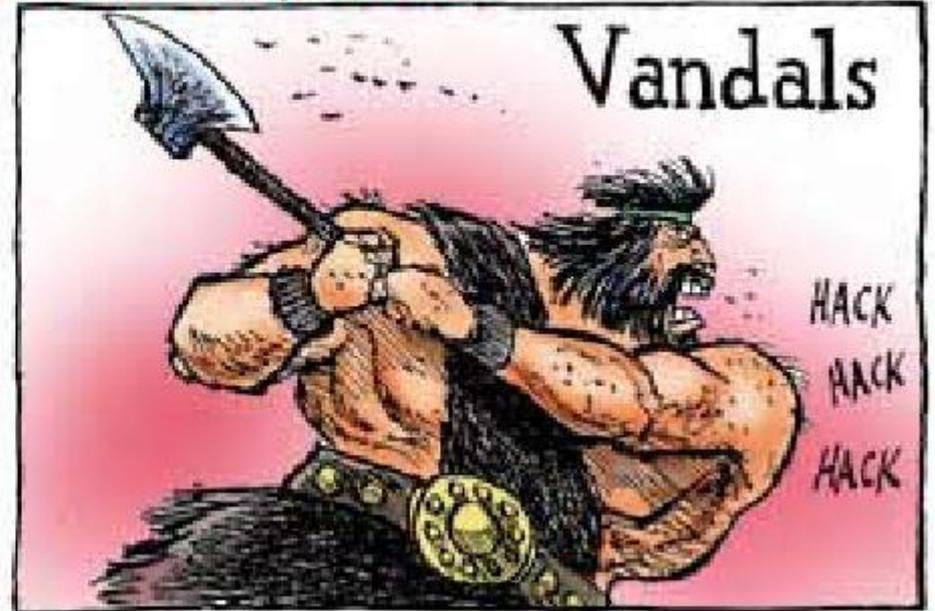
# *Learn about the history of computer crime:*

# BRINGING CIVILIZATION TO ITS KNEES...

## Goths



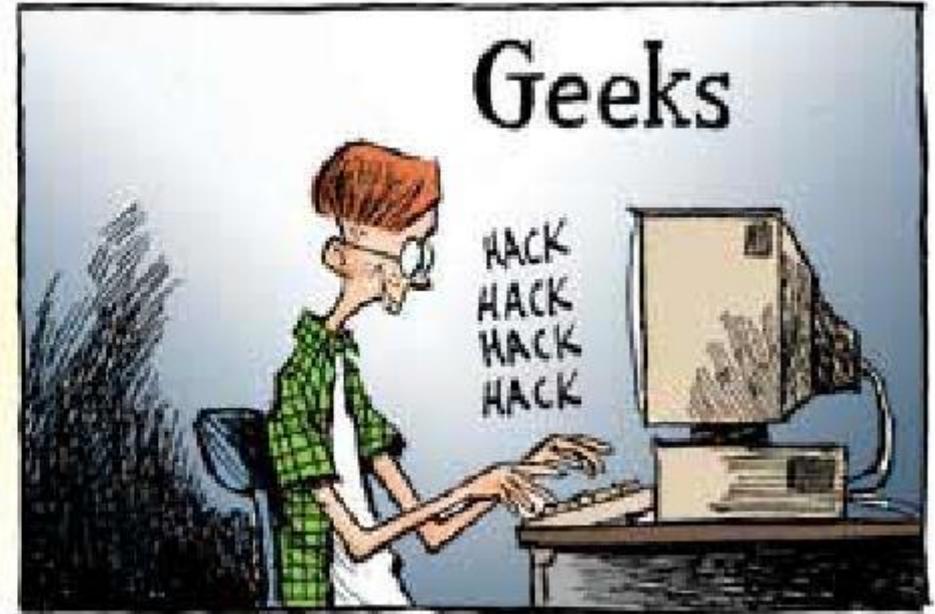
## Vandals



## Huns



## Geeks



KEVIN GIERG © 2000  
IN CHARLOTTE OBSERVED

*Use good sources  
when studying:*

# HACKERS CAN TURN YOUR HOME COMPUTER INTO A BOMB

By RANDY JEFFRIES / *Weekly World News*

WASHINGTON — Right now, computer hackers have the ability to turn your home computer into a bomb and blow you to Kingdom Come — and they can do it anonymously from thousands of miles away!

Experts say the recent “break-ins” that paralyzed the Amazon.com, Buy.com and eBay websites are tame compared to what will happen in the near future.

Computer expert Arnold Yabenson, president of the Washington-based consumer group National CyberCrime Prevention Foundation (NCPF), says that as far as computer crime is concerned, we’ve only seen the tip of the iceberg.

“The criminals who knocked out those three major online businesses are the least of our worries,” Yabenson told *Weekly World News*.

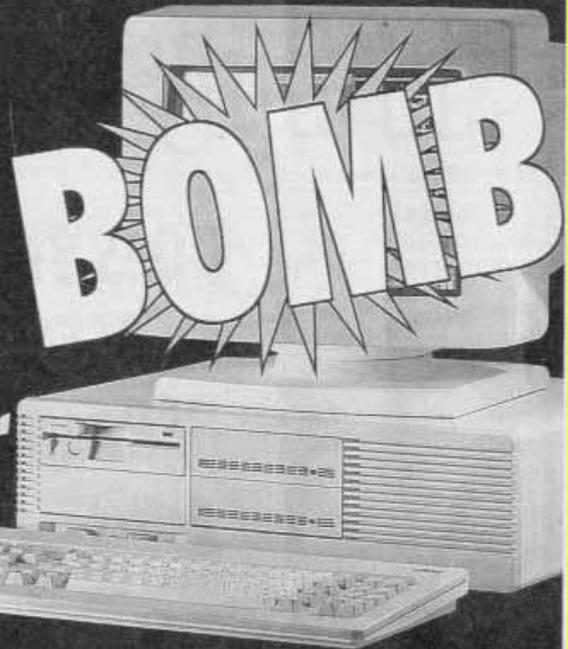
“There are brilliant but unscrupulous hackers out there who have developed technologies that the average person can’t even dream of. Even people who are familiar with

how computers work have trouble getting their minds around the terrible things that can be done.

“It is already possible for an assassin to send someone an e-mail with an innocent-looking attachment connected to it. When the receiver

downloads the attachment, the electrical current and molecular structure of the central processing unit is altered, causing it to blast apart like a large hand grenade.

## ... & blow your family to smithereens!



**KABOOM!** It might not look like it, but an innocent home computer like this one can be turned into a deadly weapon.



### Sickos can wreak death and destruction from thousands of miles away!

Arnold Yabenson.

“As shocking as this is, it shouldn’t surprise anyone. It’s just the next step in an ever-escalating progression of horrors conceived and instituted by hackers.”

Yabenson points out that these dangerous sociopaths have already:

- Vandalized FBI and U. S. Army websites.
- Broken into Chinese military networks.
- Come within two digits of cracking an 87-digit Russian security code that would have sent deadly missiles hurtling toward five of America’s major cities.

“As dangerous as this technology is right now, it’s going to get much

scariest,” Yabenson said.

“Soon it will be sold to terrorists cults and fanatical religious-fringe groups.

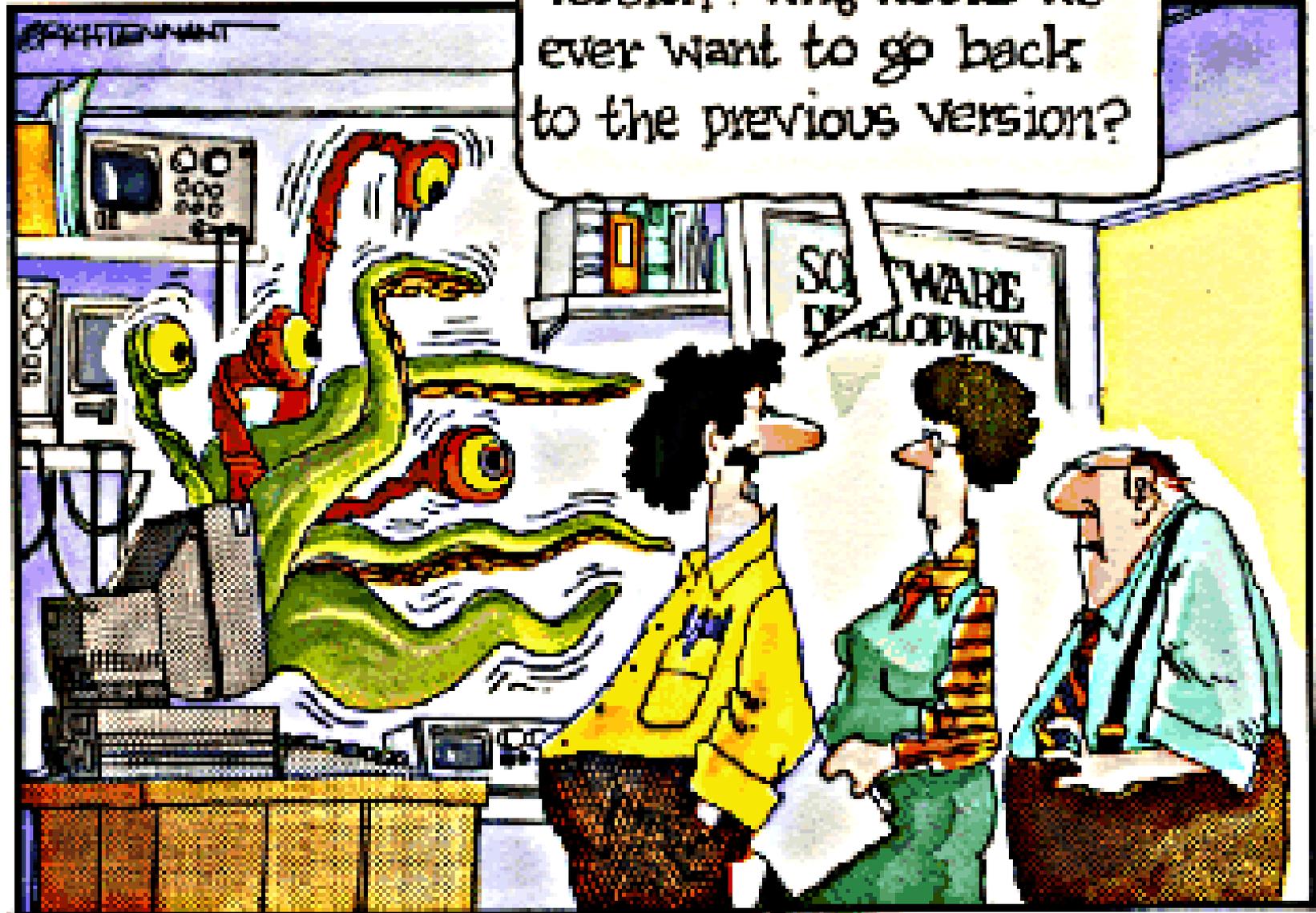
“Instead of blowing up a single plane, these groups will be able to patch into the central computer of a large airline and blow up hundreds of planes at once.

“And worse, this e-mail bomb program will eventually find its way into the hands of anyone who wants it.

“That means anyone who has a quarrel with you, holds a grudge against you or just plain doesn’t like your looks, can kill you and never be found out.”

*Establish backup  
policies:*

Backup of the previous version? Why would we ever want to go back to the previous version?



*Set clear  
rules!*

**NO  
TRESPASSING**

**HELP DESK  
OPERATOR  
WORKING**



**VIOLATORS  
WILL BE  
CRUSHED**

*Be precise  
in your  
instructions:*



*Provide  
adequate  
training:*



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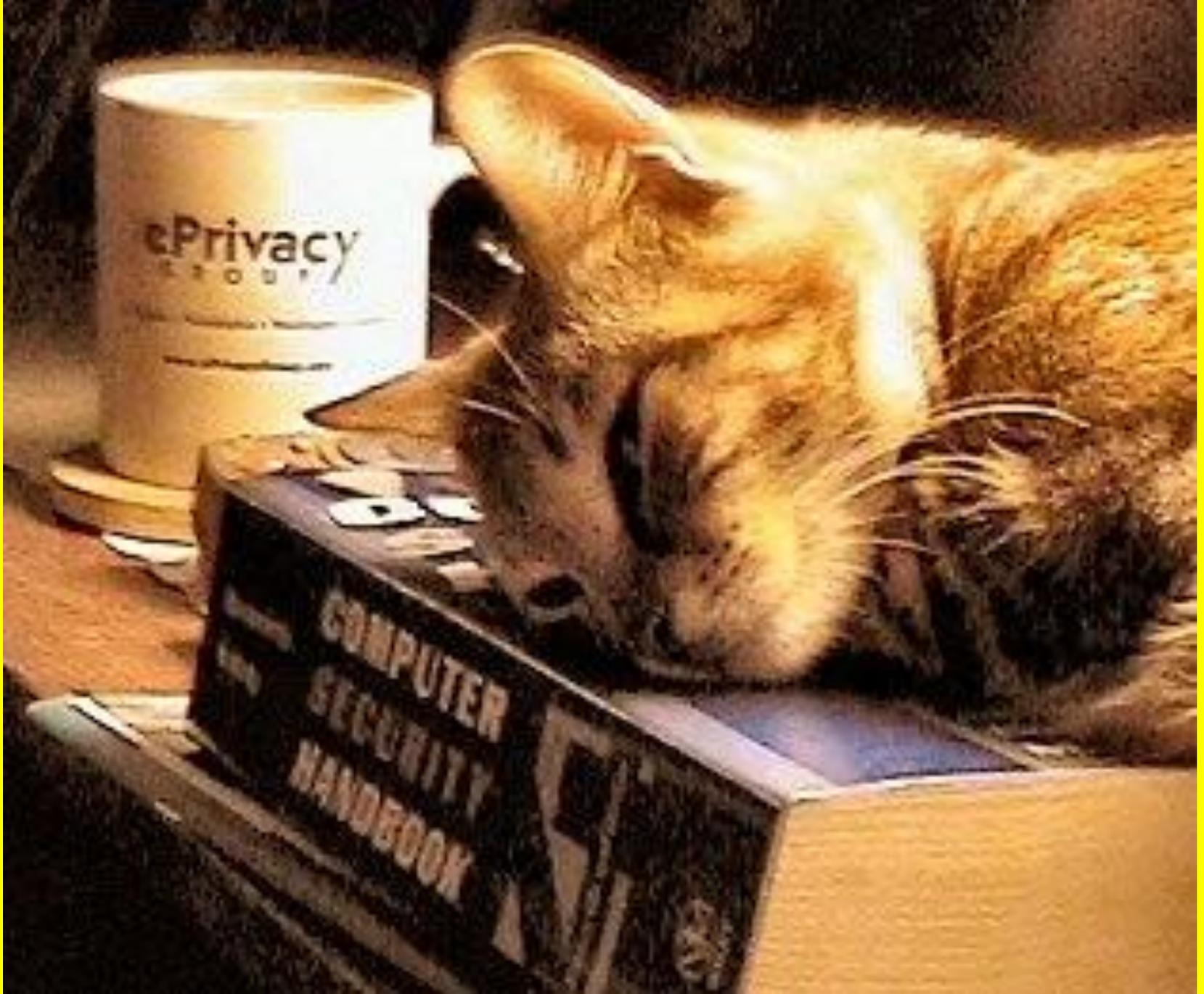


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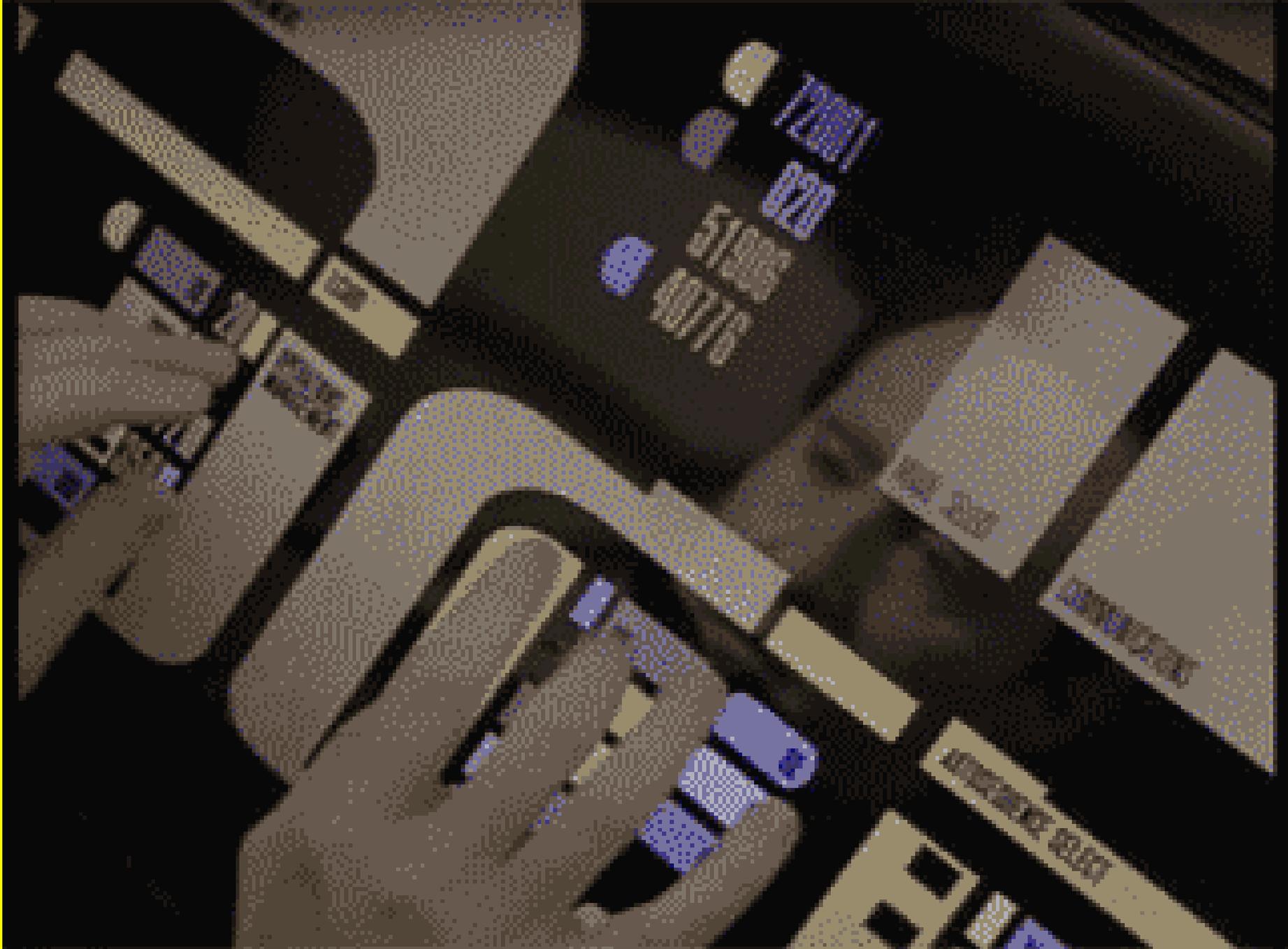


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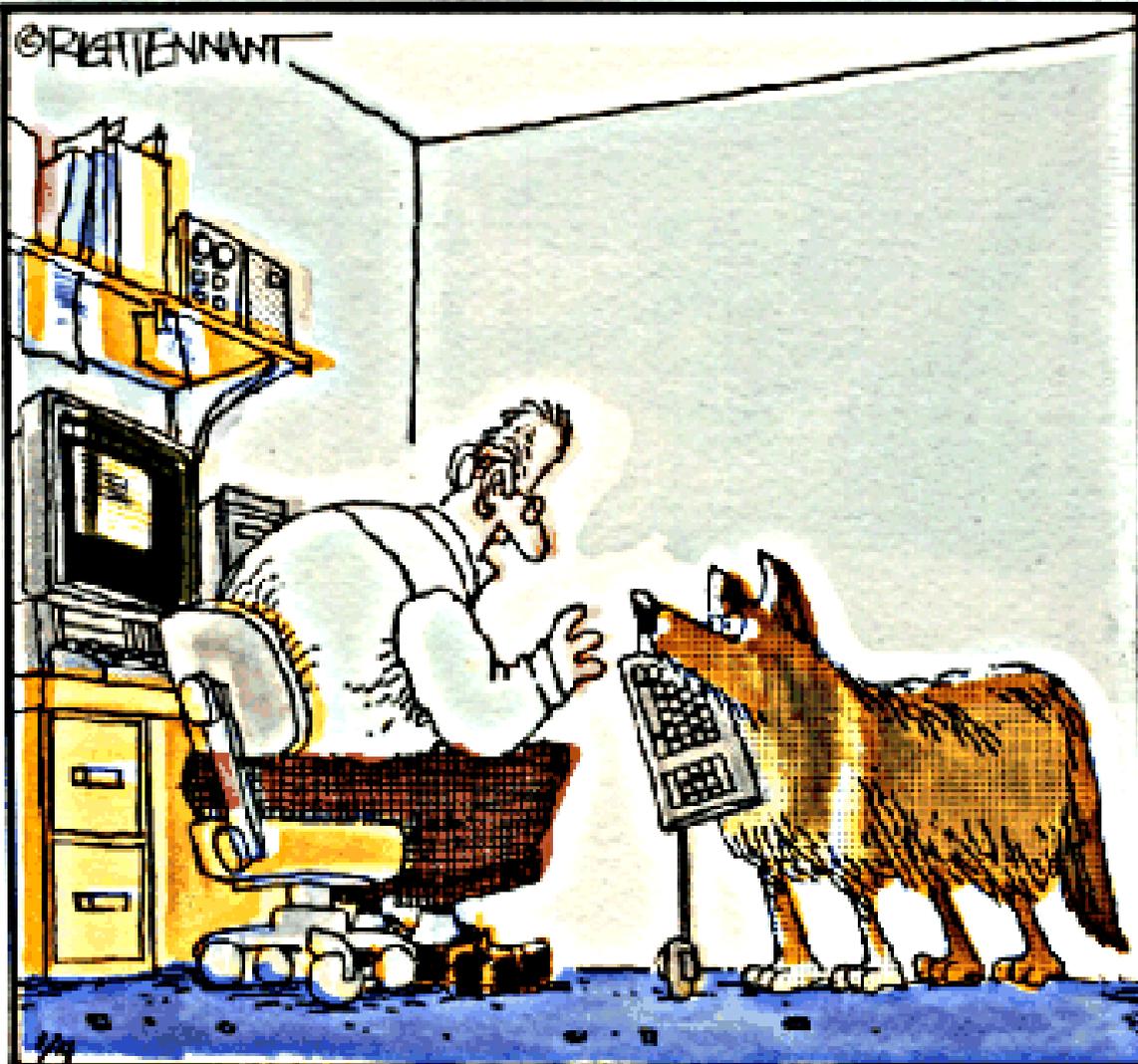
*Always  
take a break  
when studying:*



*Cultivate  
patience!*



# *Develop interpersonal skills:*



"What is it Lassie? Is it Gramps? Is it his hard disk? Is he stuck somewhere, girl? Is he trying to write CGI programs to a Unix server running VRML? What, girl, what?!"

# *Motivate employees!*

ELBONIAN HACKERS  
ARE TRYING TO STEAL  
OUR SOURCE CODE.

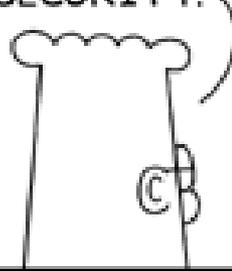


SEND OUR  
GOONS TO  
BEAT THEM  
UP.

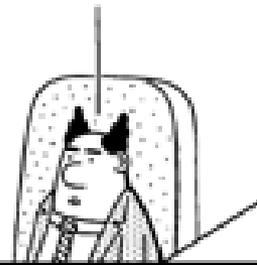


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I WAS  
THINKING  
MORE  
ALONG THE  
LINES OF  
IMPROVING  
OUR DATA  
SECURITY.



IMPROVE IT  
OR ELSE I'LL  
HAVE OUR  
GOONS BEAT  
YOU UP.

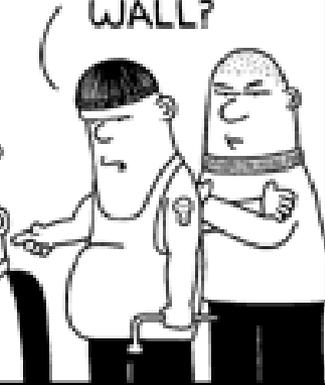


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THIS IS  
SURPRIS-  
INGLY  
MOTIVA-  
TIONAL.



YOUSE  
CALL  
DAT A  
FIRE-  
WALL?



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*Don't form  
preconceptions!*

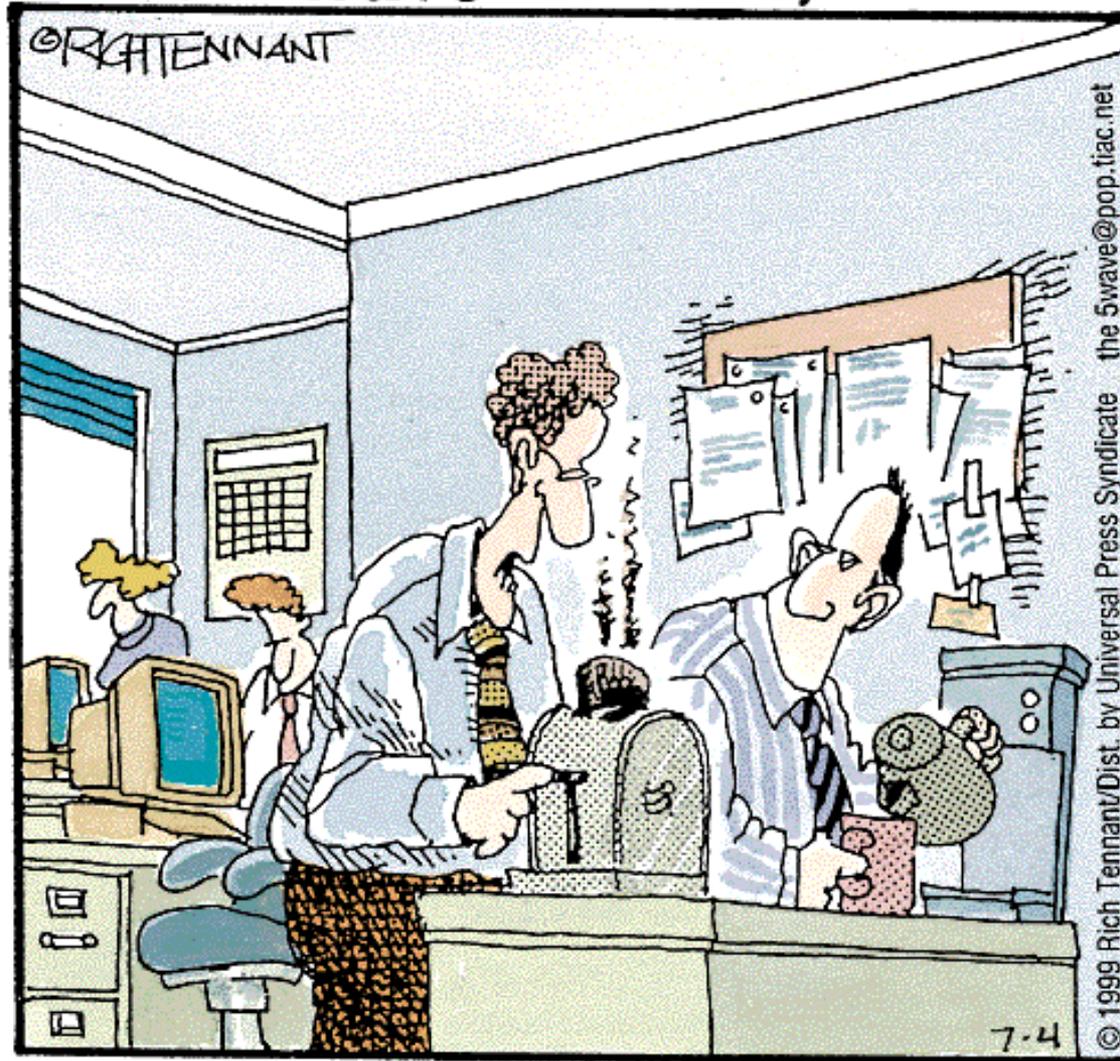


"You know, I liked you a whole lot more on the Internet."

*Determine the  
source of errors!*

# The 5th Wave

By Rich Tennant



**“I don’t know how it happened, but there’s an applet in the toaster and some guy in Norway keeps burning my toast.”**

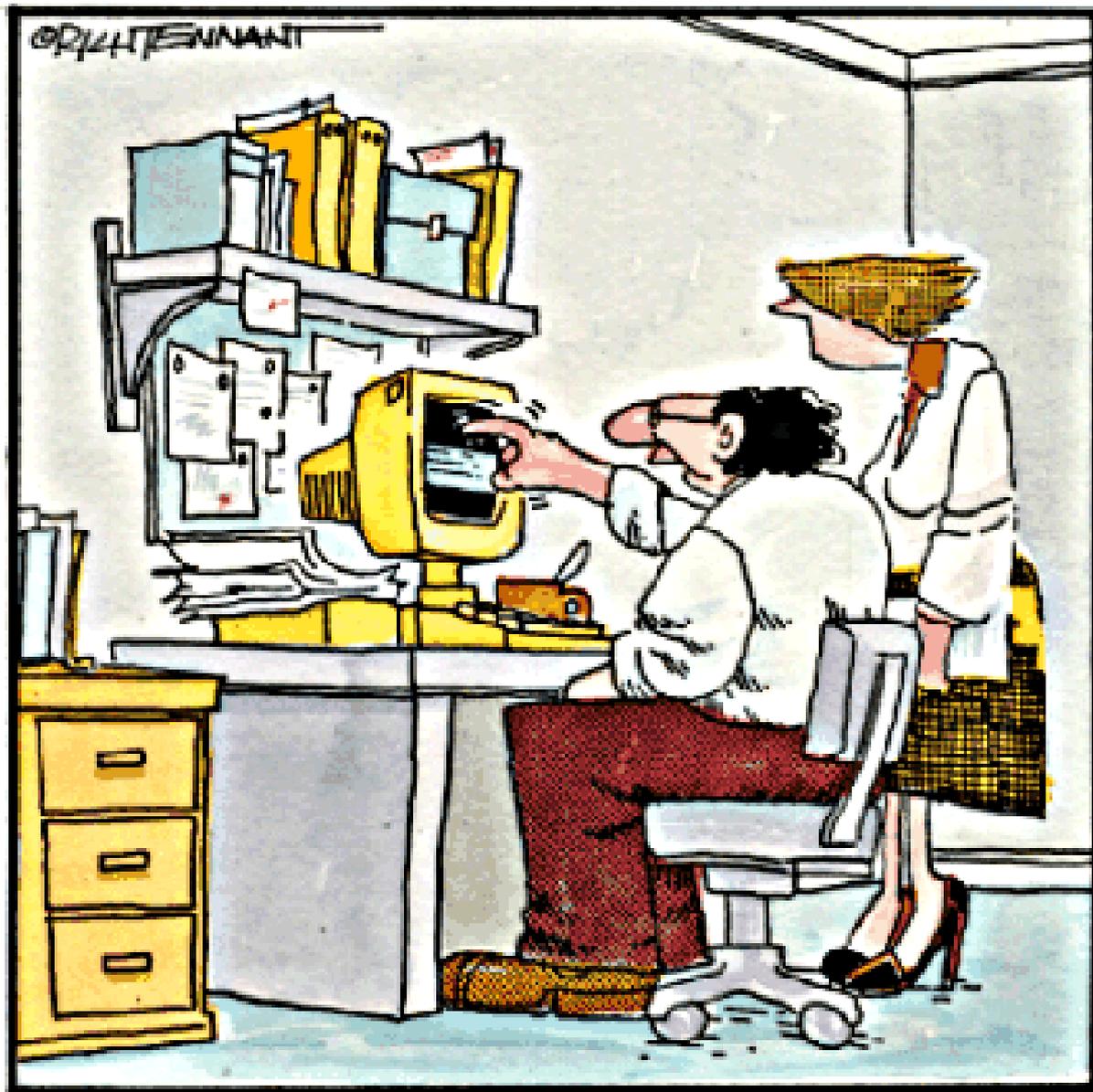
*Be brief in your  
diagnosis of problems!*

© SPATTENANT

WELL, OBVIOUSLY, ONE OF THE CELLS IN THE NAVIGATIONAL SPREADSHEET IS CORRUPT!

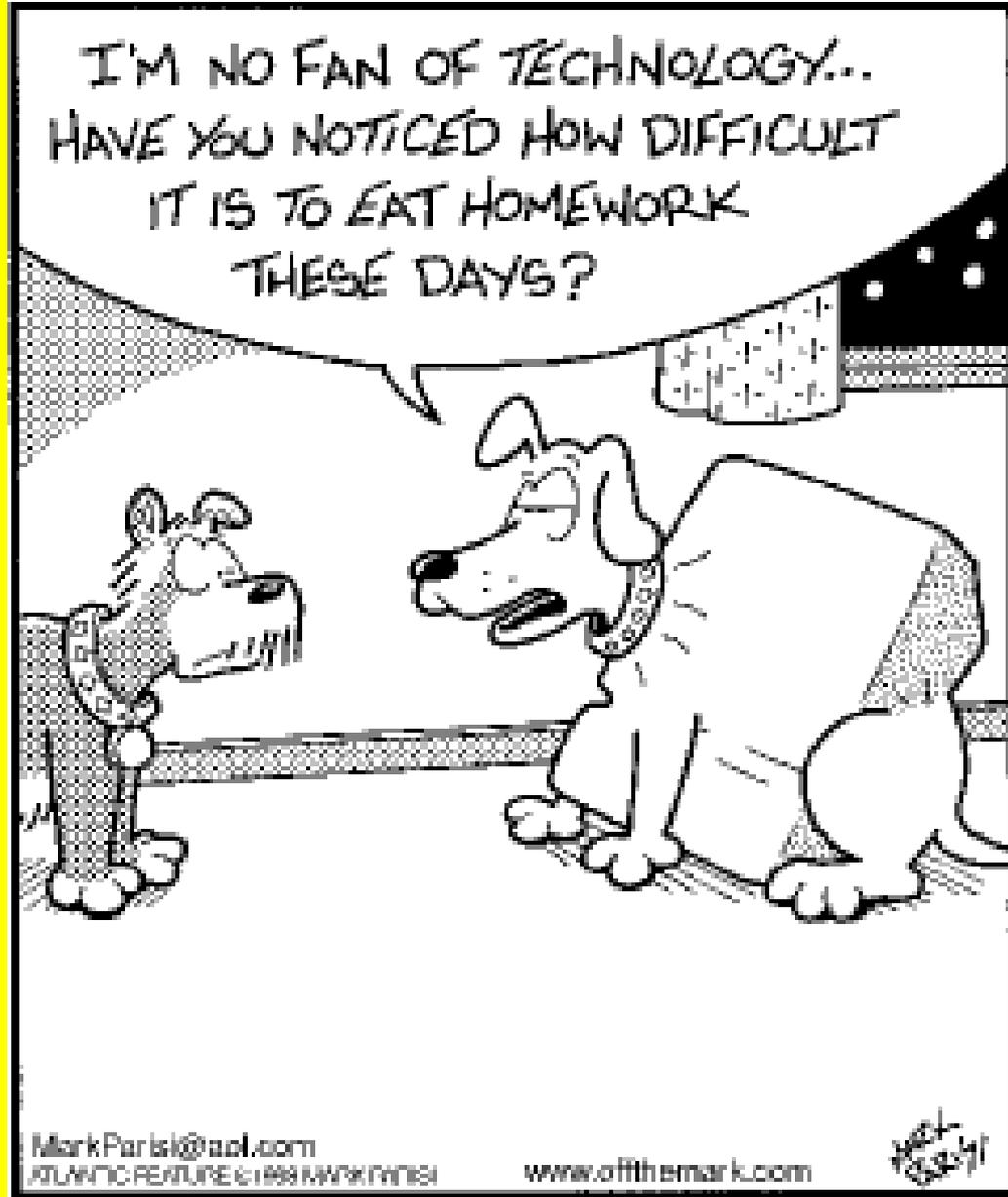


# *Distinguish between hypothesis and observation:*



"HOLD ON, THAT'S NOT A PROGRAM ERROR, IT'S  
JUST A BOOGER ON THE SCREEN."

*Consider context  
when hypothesizing:*



*Be careful  
at borders!*

Now, maybe that's an enterprise file server and maybe it ain't. Let's just you turn that thing on and show me some data rates for streaming reads and writes.

**Airport  
SECURITY**



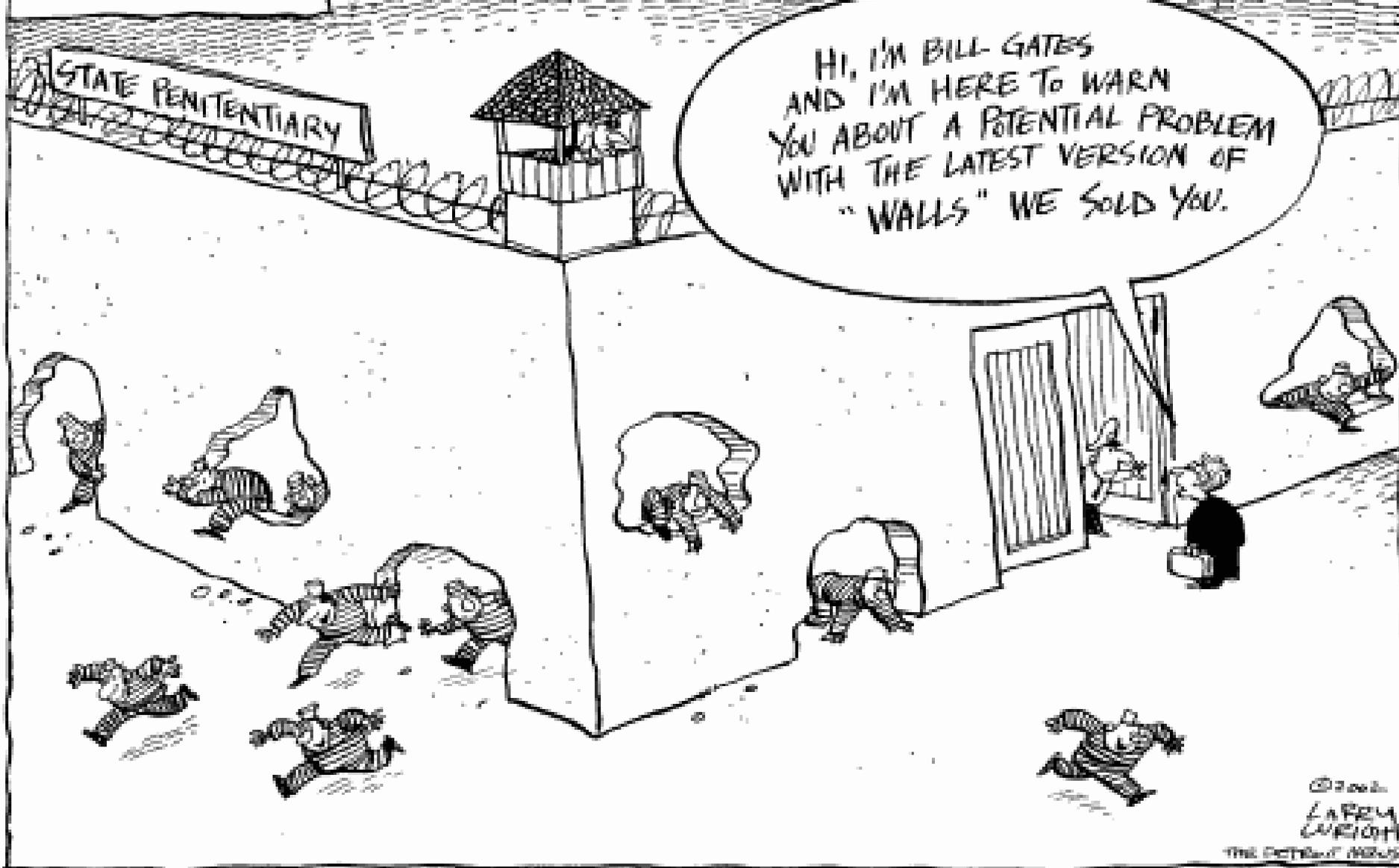
*Always consider  
interconnectivity:*



IN A DISPLAY OF PERVERSE BRILLIANCE, CARL THE REPAIRMAN MISTAKES A ROOM HUMIDIFIER FOR A MID-RANGE COMPUTER, BUT MANAGES TO TIE IT INTO THE NETWORK ANYWAY.

*Use products that conform  
to industry standards:*

IF MICROSOFT BUILT PRISON WALLS INSTEAD OF COMPUTER SOFTWARE:

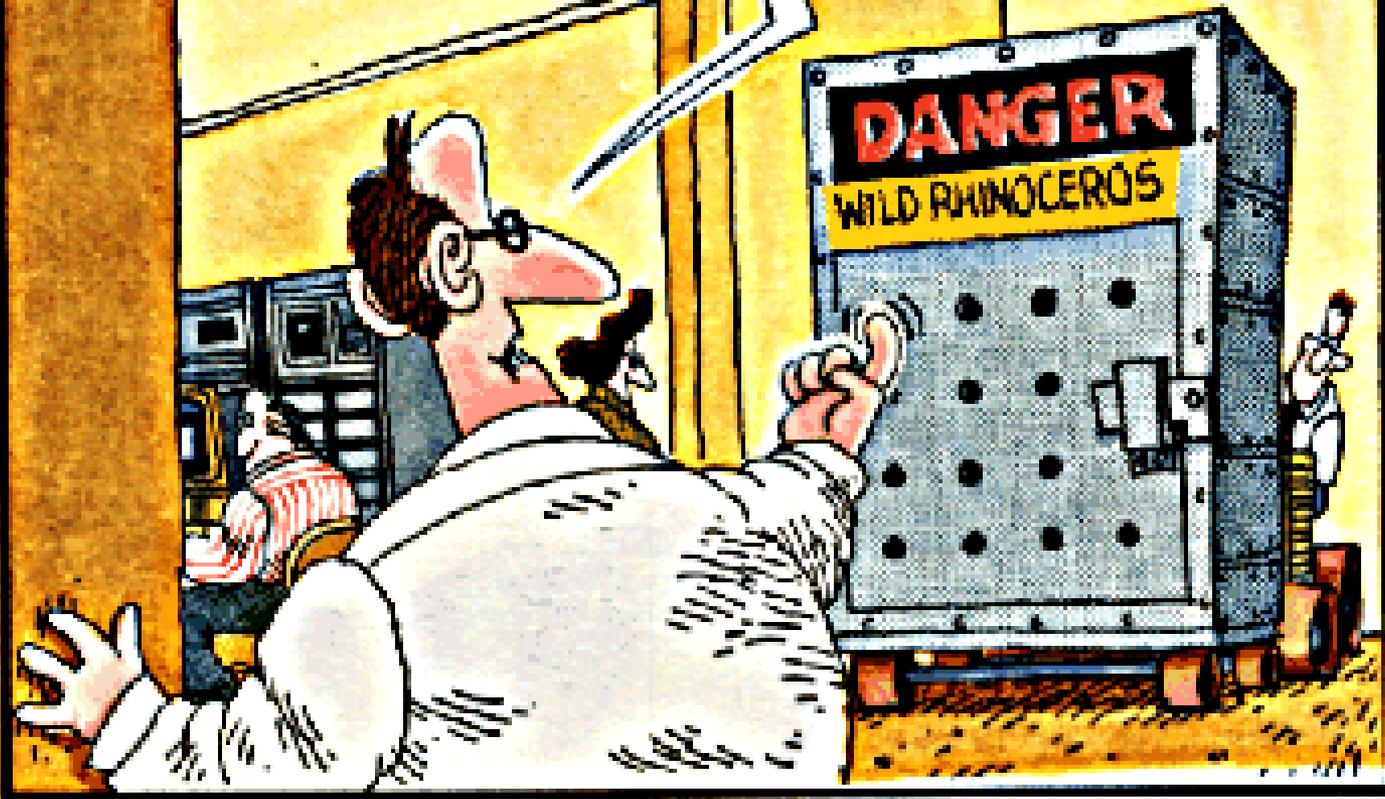


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LURTON  
THE DETROIT NEWS

*Always*  
*test your*  
*BCP & DRP:*

© RICHIE NINANT

Now maybe these folks got  
a decent disaster-recovery  
plan and maybe they don't...



*Run acceptance  
tests before  
going live in production:*

Kenny's Diner tries using a handwriting recognition ordering system.

© PHILIP HENNING

TUBA ON WHOLE  
WHEAT!



*Use the right experts  
for each job:*

YOU HAVE CHRONIC  
MAHJOBBS CRAPPUS  
BUT THAT'S NOT WHY  
YOU PUKED.



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HAVE YOU BEEN  
EXPOSED TO ANY  
USER INTERFACES  
DESIGNED BY  
ENGINEERS?



YES.

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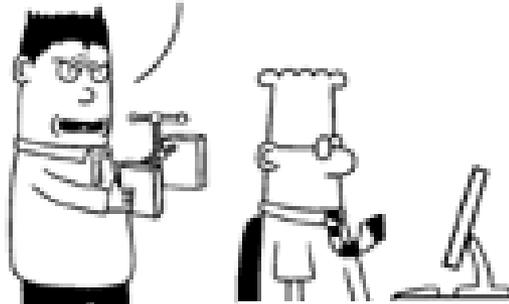
YOU HAVE INTERFACE  
POISONING. YOU'LL  
BE DEAD IN A WEEK.



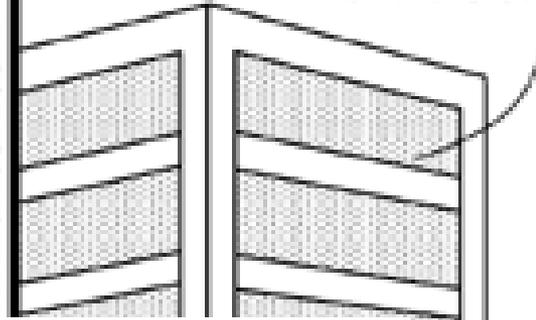
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*Choose appropriate  
authentication methods!*

I AM MORDAC, THE PREVENTER OF INFORMATION SERVICES, AND I BRING YOU MY NEWEST BIOMETRIC SCANNER.



INSTEAD OF A PASSWORD, I PUT THIS ON YOUR HEAD AND SQUEEZE UNTIL YOU SCREAM IN A WAY THAT ONLY YOU CAN SCREAM.



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NO, THAT'S NOT YOU.

GAAA!  
GAAA!  
GAAA!



# *Use incident postmortems!*

A HACKER BROKE INTO OUR SYSTEM AND FOUND OUT OUR CORPORATE STRATEGY.

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DID HE POST IT ON THE INTERNET? I'D LIKE TO READ IT.

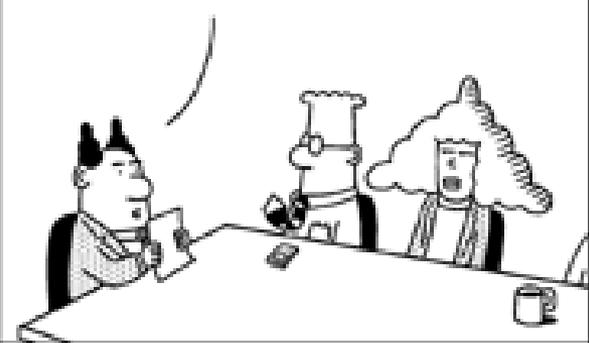
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I'M ALSO CURIOUS ABOUT MY OBJECTIVES FOR THIS YEAR. DO YOU HAVE THE GUY'S E-MAIL ADDRESS?

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*Set effective  
password  
policies!*

YOU WILL NO LONGER  
HAVE ACCESS TO CODE  
ON ANY SERVER BUT  
YOUR OWN.

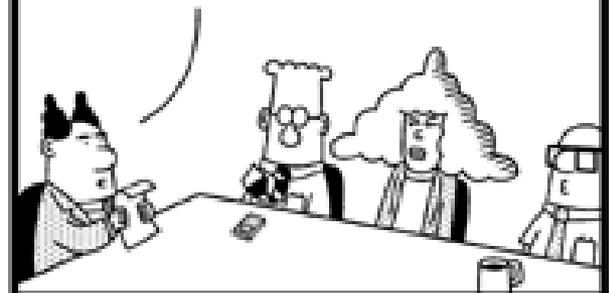


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IS IT MY IMAGINATION,  
OR ARE ALL OF OUR RULES  
DESIGNED FOR THE SOLE  
PURPOSE OF BEING HUGE  
INCONVENIENCES?



AND STARTING TODAY,  
ALL PASSWORDS MUST  
CONTAIN LETTERS,  
NUMBERS, DOODLES,  
SIGN LANGUAGE AND  
SQUIRREL NOISES.

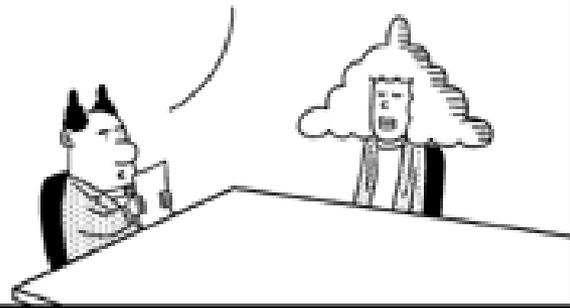


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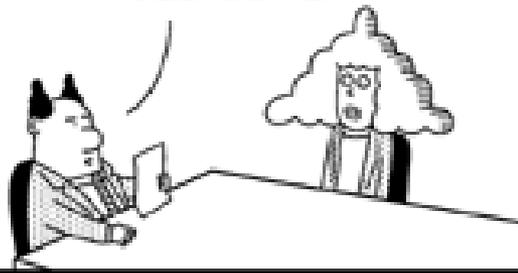
# *Define Internet-use policies:*

ALICE, THIS YEAR YOU DID THE WORK OF FOUR PEOPLE AND MADE OVER \$10 MILLION FOR THE COMPANY.



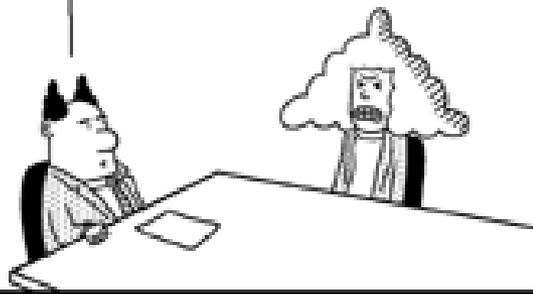
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BUT ACCORDING TO OUR WEB MONITORING SOFTWARE, YOU USED COMPANY RESOURCES TO LOOK AT A WEATHER WEB SITE.



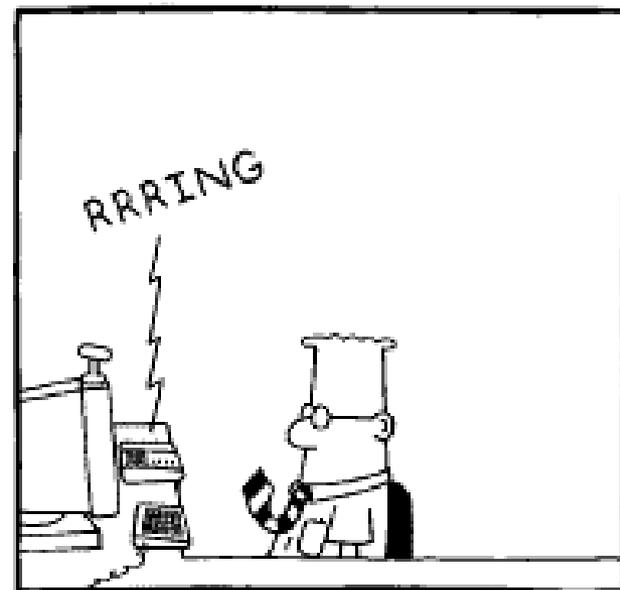
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THIEF.

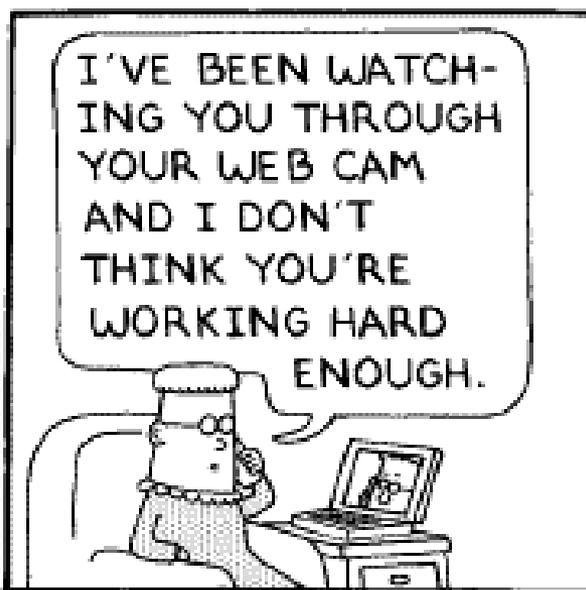


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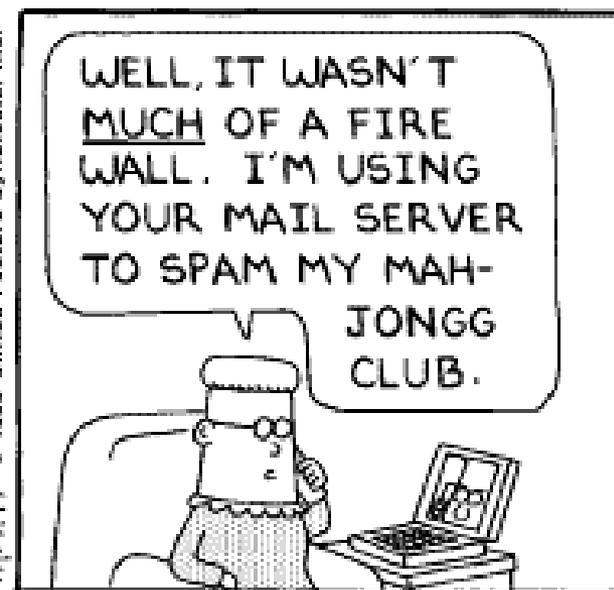
*Configure  
firewalls  
properly:*



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*Don't get  
too used to  
online sex:*



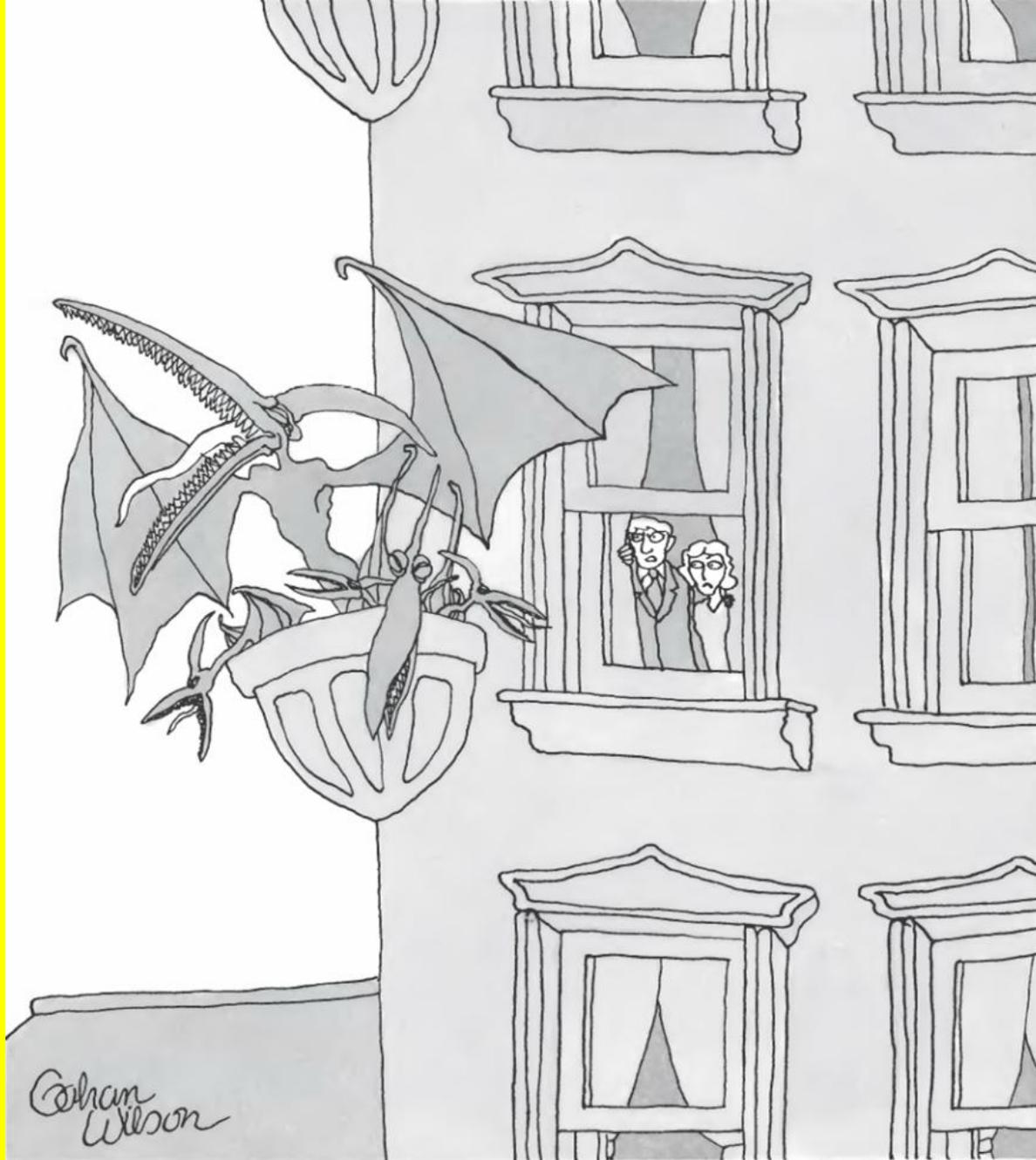
*"I'm sorry, I need it to be on the Internet."*

*Protect the  
privacy of  
your clients:*



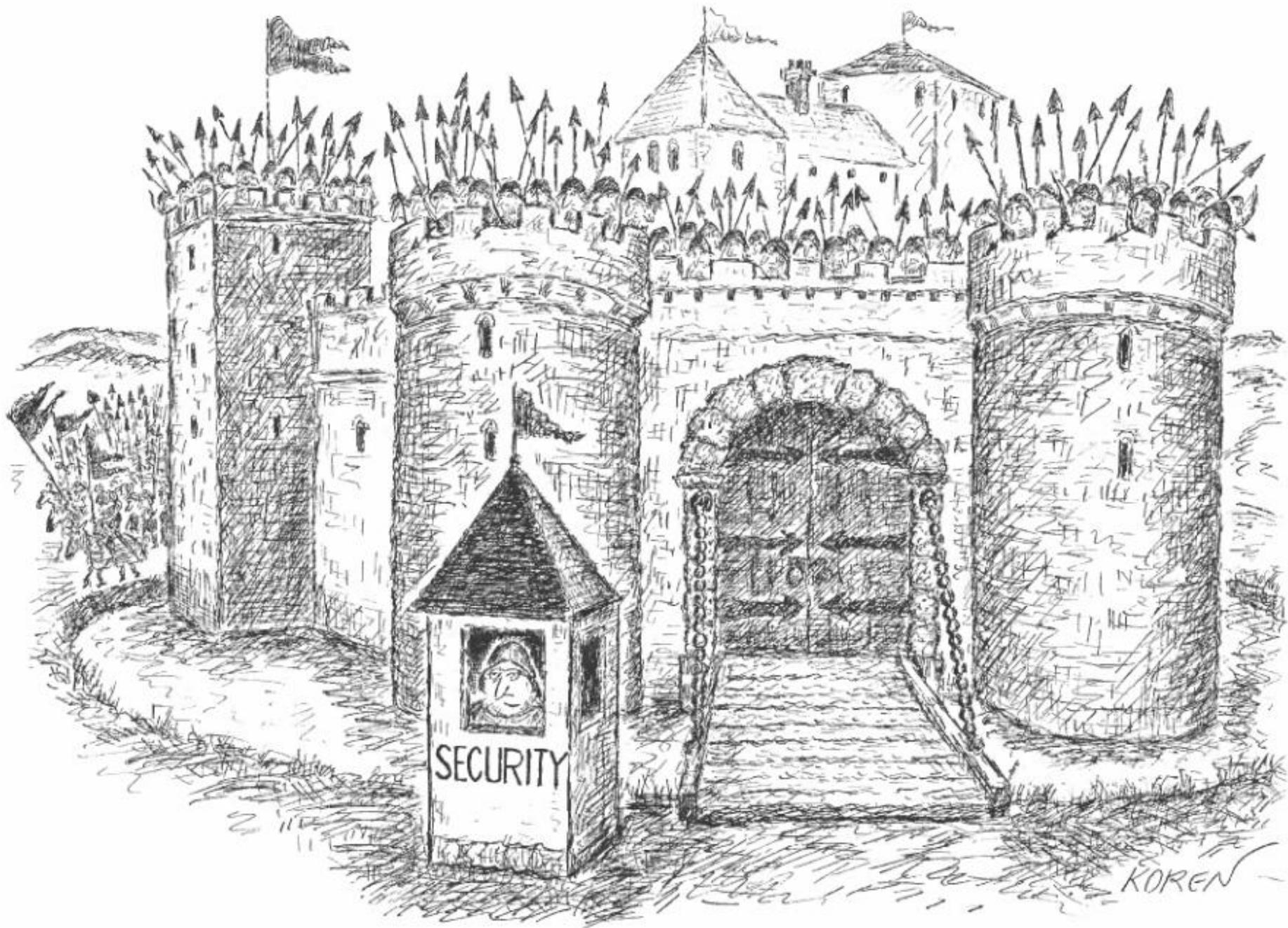
*"Pardon me, but I couldn't help overhearing your conversation."*

# *Control public relations in a crisis!*



*"I'd complain, but I'm afraid of the bad press we'd get!"*

*Use cost-effective  
risk management :*



# *Enforce anti-porn policies:*



THIS P.C.  
HAS BEEN  
PORN FREE  
FOR **23**  
DAYS

DARBYSH.

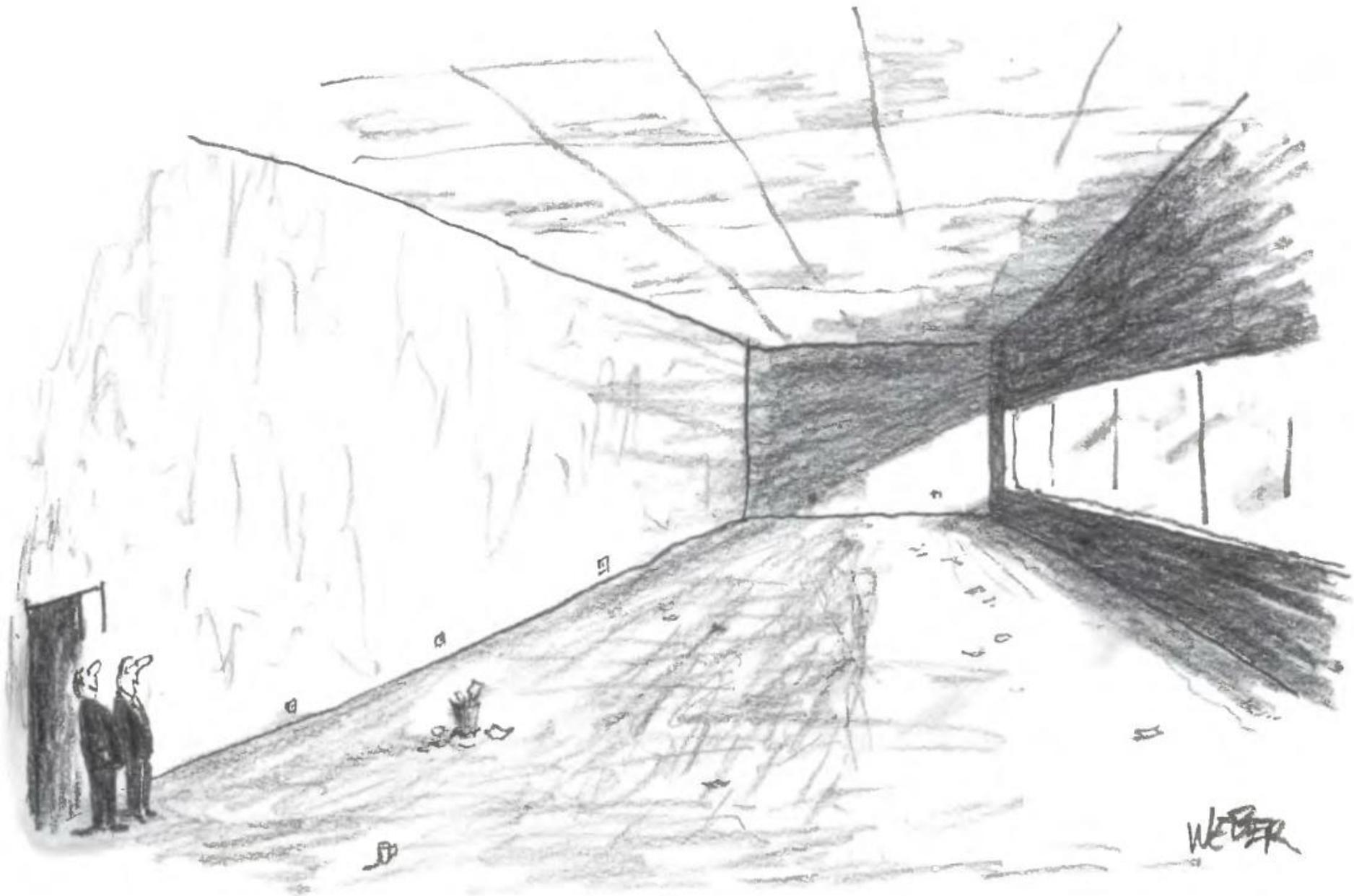
*Remain  
anchored  
to reality:*



*"I can't wait to see what you're like online."*

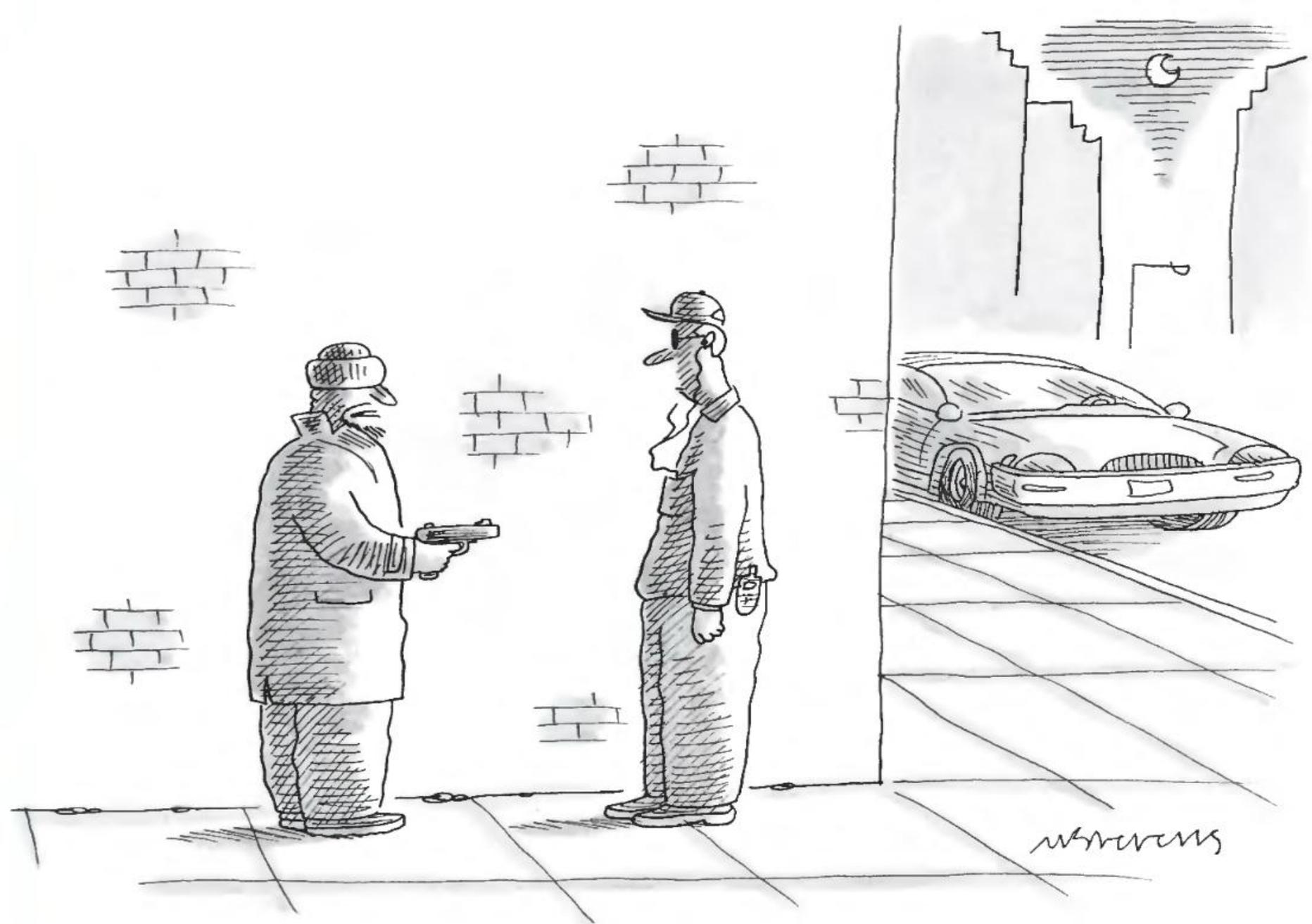


# *Outsource wisely:*



*“Well, that does it, Charlie—we’ve outsourced everything.”*

*Be on guard against  
industrial espionage!*



*“Hand over your most recently acquired technology.”*

*Don't let  
the Internet  
waste corporate  
resources!*



*"If it please Your Honor . . . Your Honor? Your Honor!"*

# *Control theft of resources!*



*"I do take home some office property, but only because I'm building an exact replica of the office in my home."*

*Do background  
checks on  
prospective  
employees:*



*"I'm trying to find a way to balance your strengths against your felonies."*

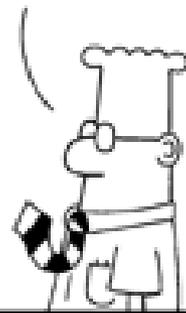
*Be ethical  
at all times!*

MY BOSS WANTS ME  
TO INTEGRATE A  
GREAT PRODUCT WITH  
A TERRIBLE ONE JUST  
TO VALIDATE OUR  
MERGER.



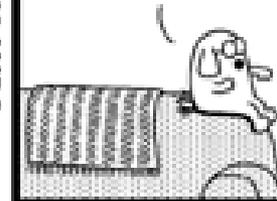
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IS IT ETHICAL FOR  
ME TO STALL FOR A  
MONTH UNTIL HE  
FORGETS WHAT HE  
ASKED FOR?

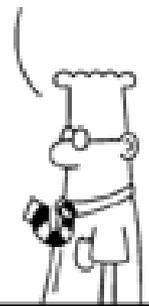


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SURE. YOU  
CAN EVEN  
HIT HIM  
WITH A  
ROCK TO  
SPEED UP  
THE FOR-  
GETTING.



MAYBE I'M  
ASKING THE  
WRONG  
ETHICIST.



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# *STAY IN TOUCH:*

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REGISTER YOUR IDEAS. NOW.

**Go**



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**numsia** · Norwich University (VT) MSIA

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  - Polls
  - Members
    - Pending
  - Calendar
- 
- Promote
  - Invite
- 
- Management

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- Group Information**

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### Home

**Activity within 7 days:** 23 New Messages - [New Questions](#)

#### Description [\(Edit\)](#)

For **graduates** (alumni/alumnae or students **FINISHED** the program) and **current faculty** of the Master of Science in Information Assurance (MSIA) at Norwich University, Northfield, Vermont USA. Intended to promote information sharing and continued contacts among MSIA graduates and current faculty after they complete their degrees.\*

Members are free to post new messages in existing threads or to add new threads. There are facilities for sharing photos and files as well as for interactive chat and shared URLs. Occasionally members will create polls to explore the opinion of the membership on various topics.

Moderator: M. E. Kabay, PhD, CISSP-ISSMP / Program Director, MSIA



**NOW GO AND STUDY**  
**OR SOMETHING**