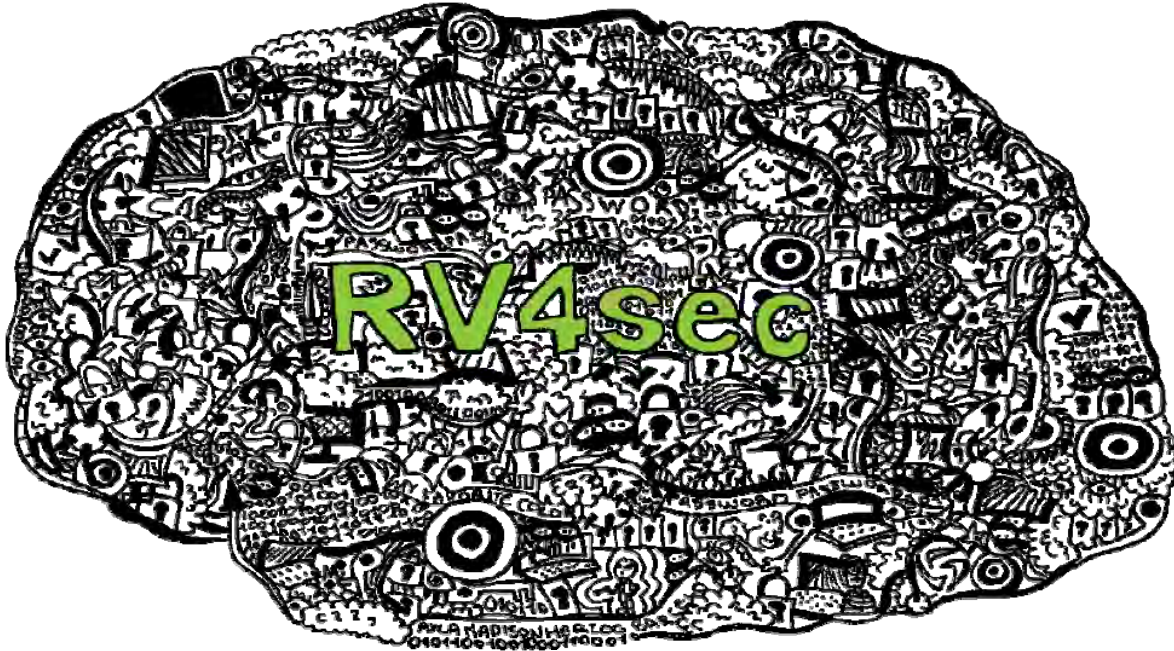


# Welcome To



**@RVAsec - #rvasec**

G. Mark Hardy  
CISSP, CISM, CISA

gmhardy@nationalsecurity.com

+1 410.933.9333

@ g\_mark

LAYER



# Keynotes are *different.*

It's Not About What You are Doing...







It's Not About Your Pet  
Project...



Anyone remember  
Marcus Ranum's  
keynote?

Compared to  
reality, Marcus  
is an optimist.



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Must be  
*thought-provoking.*











First full-time  
INFOSEC job...





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I got to watch our  
industry grow up...



My first computer -  
- 1975  
(egad!)



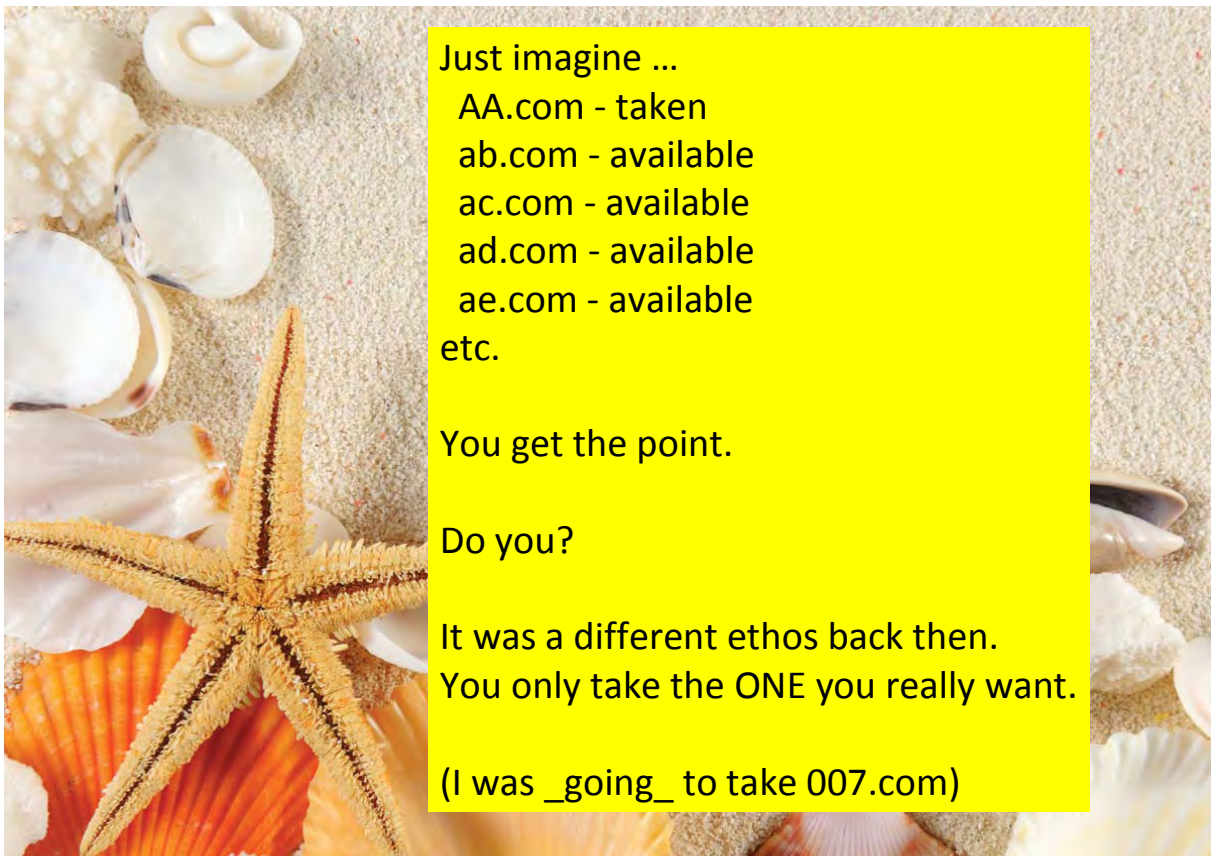
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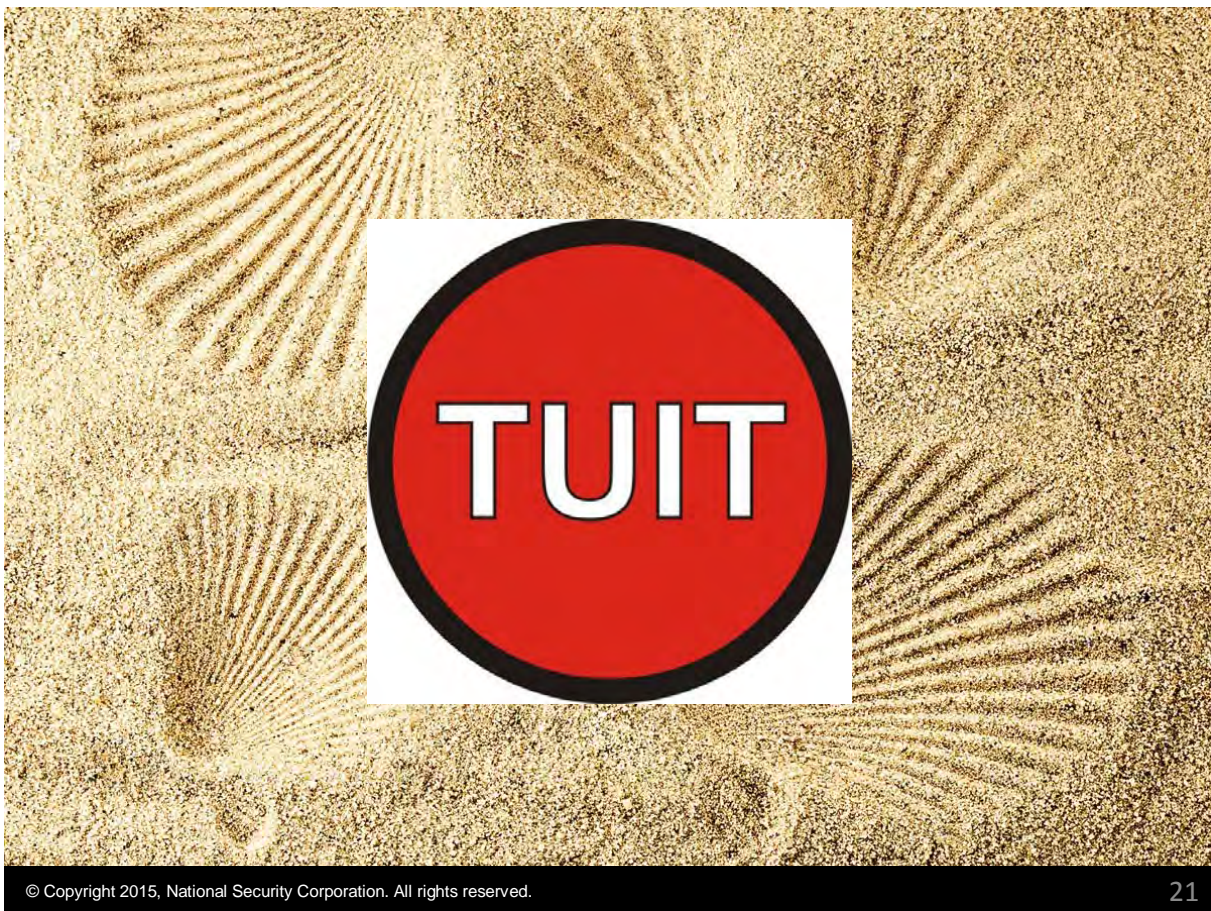
# Not that long ago: 1996

## 2-letter .com

Less than 100 of 676 had  
ever been registered.  
(And domains were FREE  
in the B.N.S. days)







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Felt Like I was in California in 1837



You're in WAY  
early

Do really cool stuff  
Find really neat  
stuff

But never staked a  
claim

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Got overrun  
like Custer at  
Little Big  
Horn.



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I Could Have Been A Contender!



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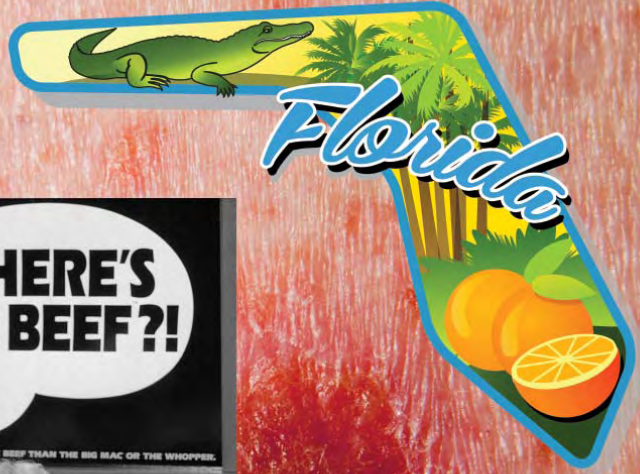
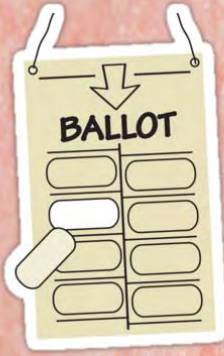


or I Could Have Been This Guy...



Okay, never mind.

And now...



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## A Different Era



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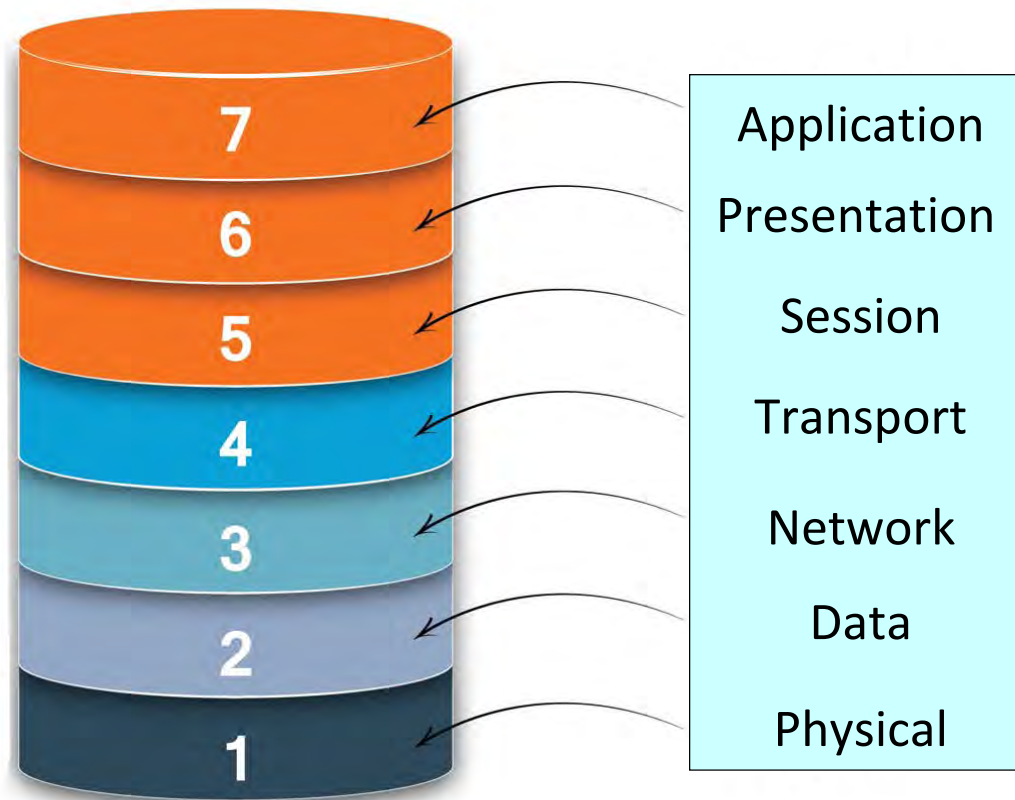
28



# Programmers looked different...



Oh yeah, I'm supposed to  
talk about something related  
to security...



# Where is Tom Lehrer when you need him?





OSI Model ends at 7  
but...

Our jobs don't.  
Security doesn't.  
Business doesn't.

We need to  
go beyond...









We “get” tech...

It's our comfort zone





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Honey Badger Doesn't Give A \_\_\_\_\_



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# Failure to get Layer 8...



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I did not have  
sexual relations  
with that  
woman...

(oops --  
wrong president)

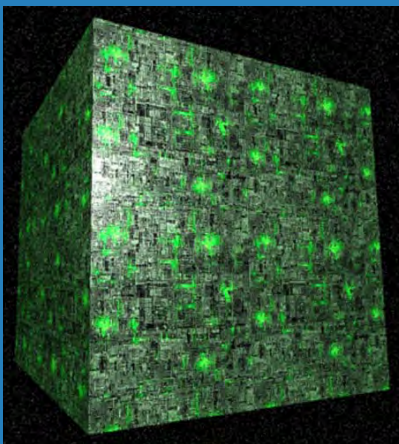


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# There is no escape from politics

Resistance is futile



# What I'm NOT saying about Layer 8

This Guy is Uber Leet ...





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“ Politics  
consists of  
illusion,  
misdirection,  
and ridicule.  
But the  
greatest of  
these is  
ridicule.”

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## DEFCON Server Forensic Challenge

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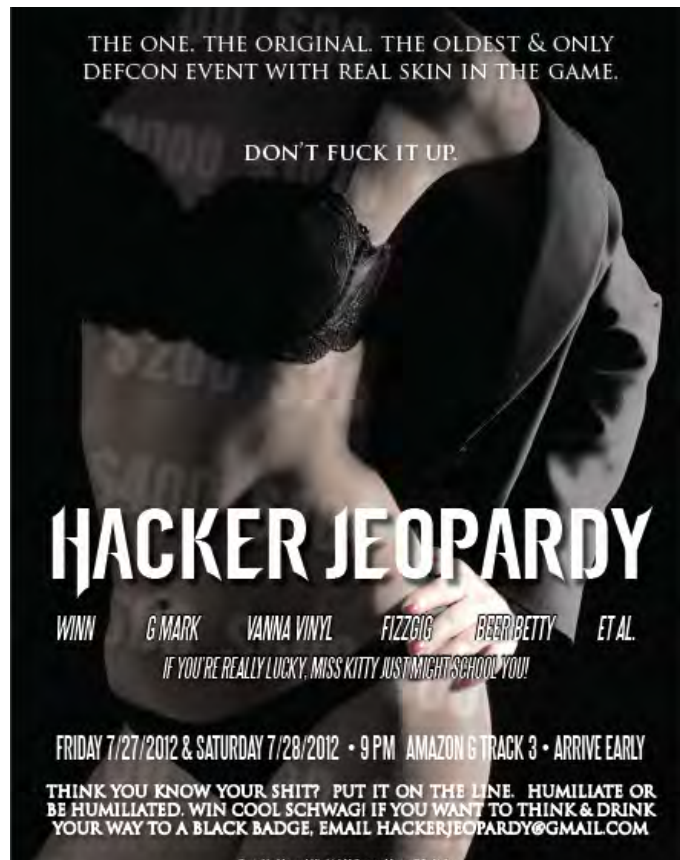


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P

C







## What Layer 8 \_is\_

- Attack surface
  - Users
- Executives who don't "get" security
- Vendor influence
- Legislation
  - Rockefeller-Snow (S. 1353, RIP!)
  - Aaron's Law Act of 2015 (H.R. 1918)



# Awareness

- Go beyond
  - Understanding
  - Comprehension
  - Formulate Strategy
  - Take Action
  - Produce Results





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# You Have An Obligation

- Self?
- Career?
- Money?
- Power?
- Our Profession!





*What is your Vocation?*  
*Your CALLING?*  
*Your purpose?*





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## G. Mark's Corollary to Moore's Law...

- Half of what you know about security will be obsolete in 18 months.



Is Security  
Your  
Magnificent  
Obsession?





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Help Wanted

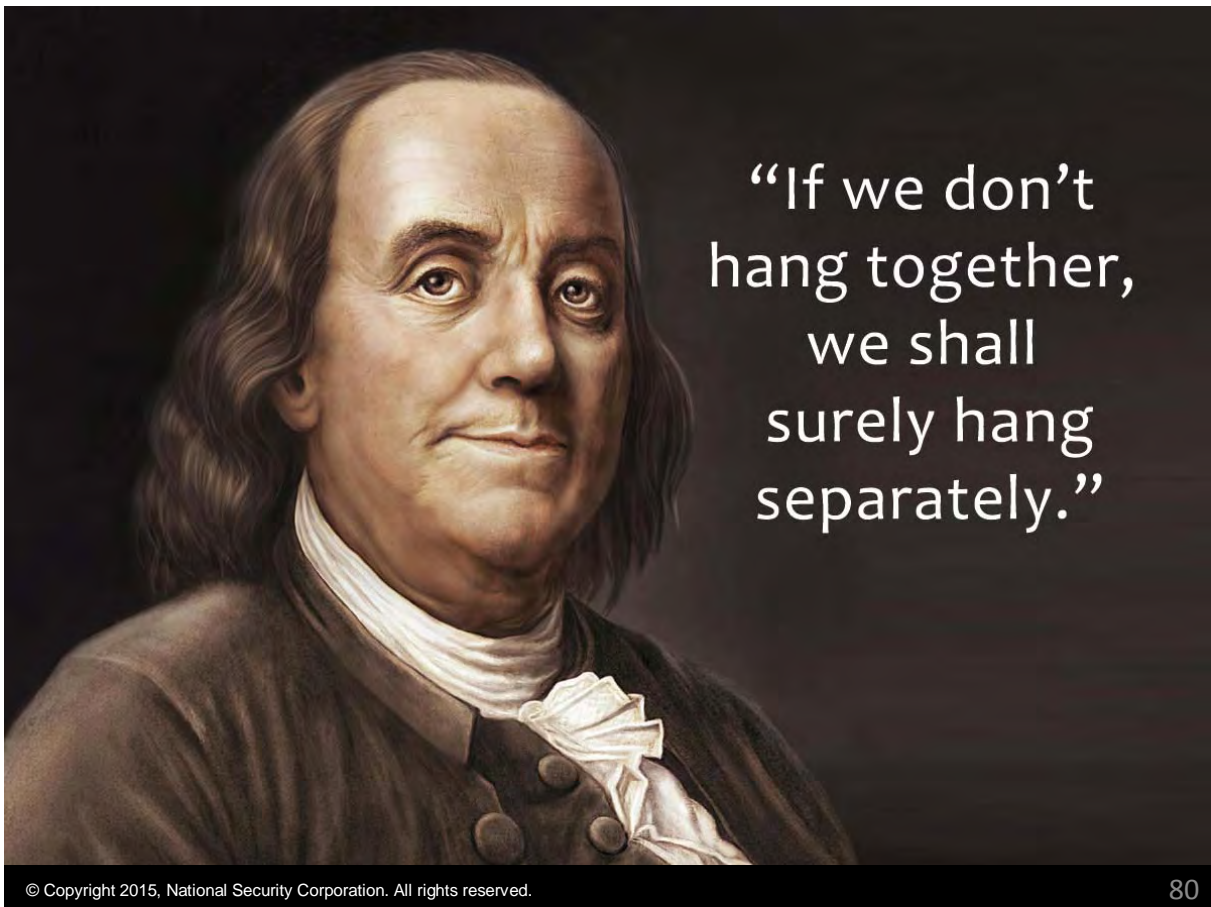








# Who Will Be Hackitus?



# Develop

- Influence
- Awareness
- Interaction
- Play the game







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Engage!





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“You may not be interested in politics,  
but politics is interested in you.”



Leon Trotsky

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Wrong  
Question

Is this man useful?



# Quiz: The enemy of my enemy is

**USEFUL!** ?



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Learn, Discipline Yourself, Engage

- Learn how to play
- Learn the rules
- Learn how to break the rules
- ...and claim you're following the rules



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- Learn how to change the rules and not have to tell anyone the new rules



- Learn how to win



## What Do You Win?

- Money?
- Power?
- Sex, Drugs, & Rock-n-roll?



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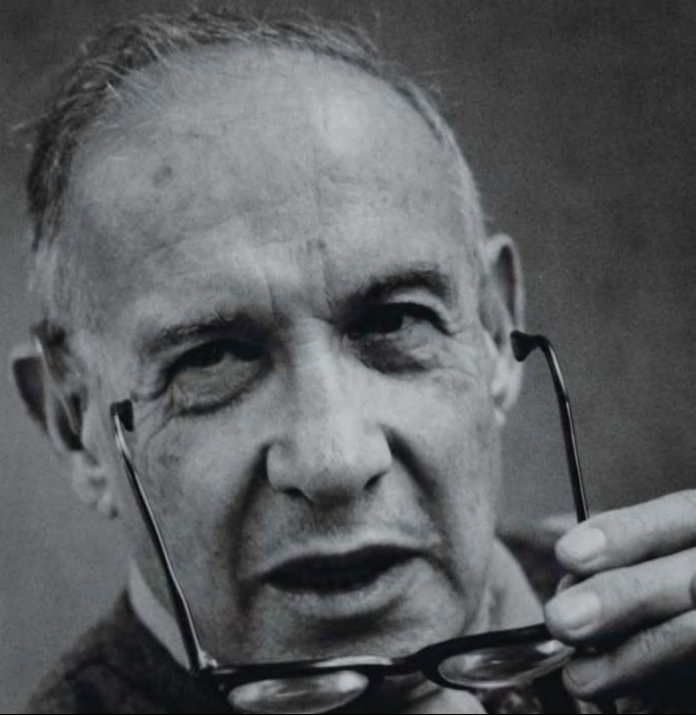
Yes,  
ALL OF THAT!  
But wait; there's  
more...

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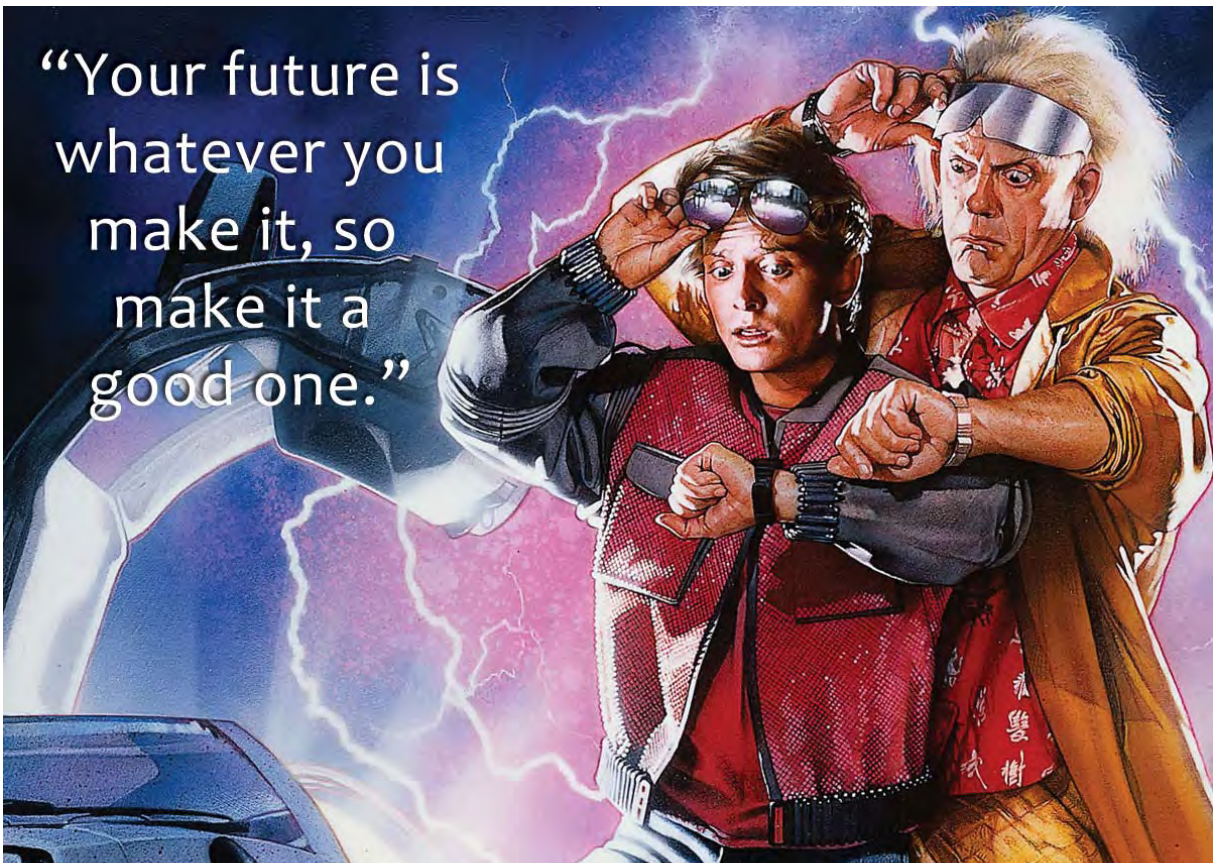
“The best way  
to predict your  
future is to  
create it.”



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“Your future is  
whatever you  
make it, so  
make it a  
good one.”



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# Win one for the Gipper

- Not for your CISSP recertification
- Not for your employer

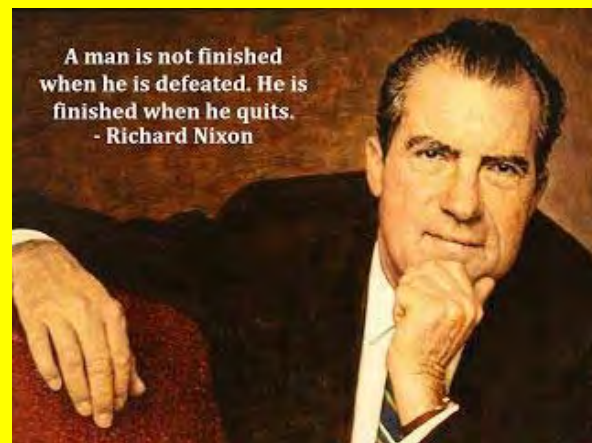


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You win because  
you believe.

NEVER GIVE UP!



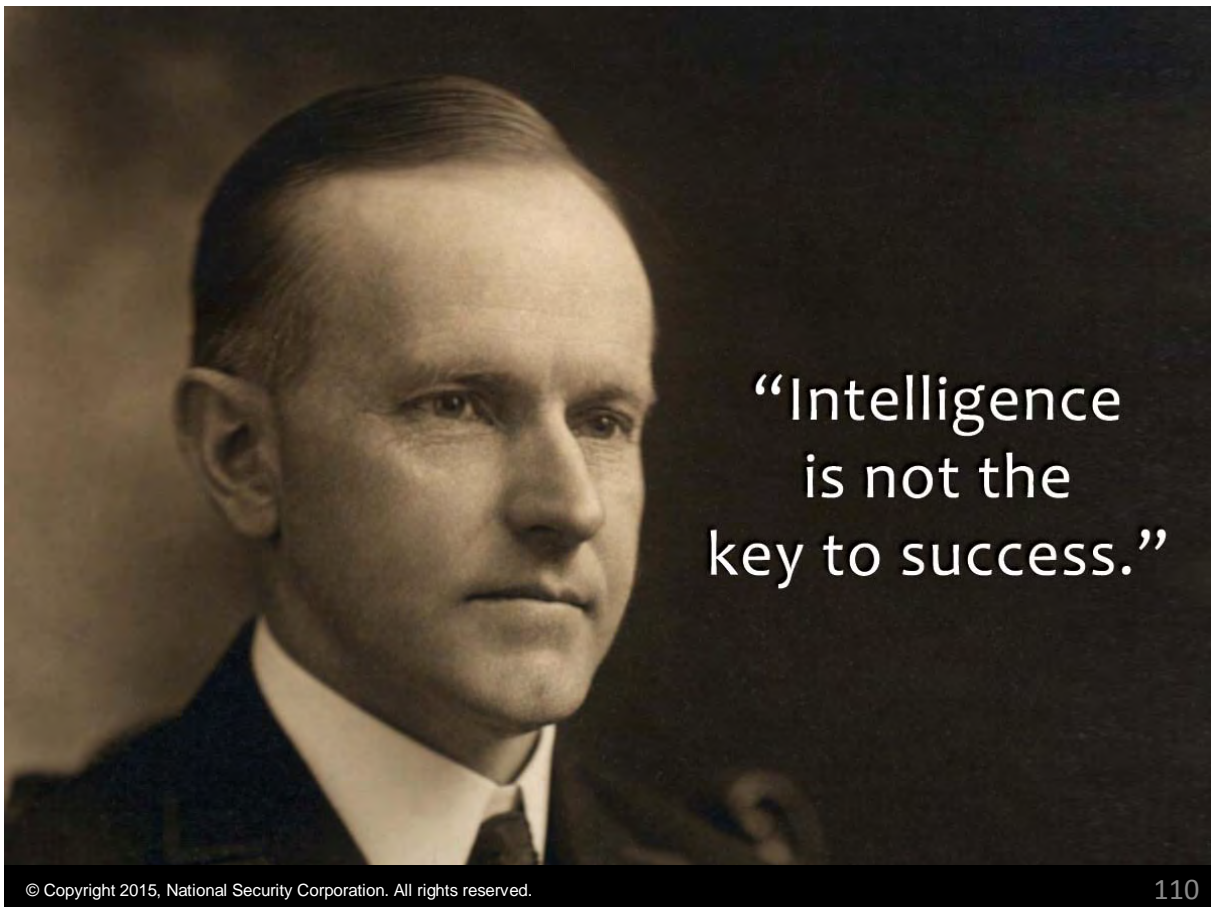
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You are transforming  
the future.

Do you realize  
how much raw IQ  
is in this room?





**WE ARE**

**ON A MISSION  
FROM GOD!**







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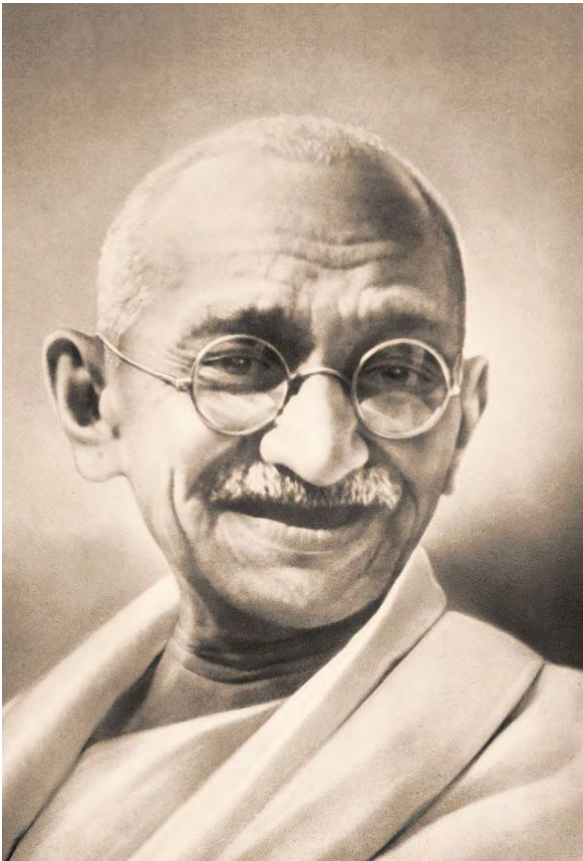
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“Be the change  
you seek  
in this world.”

On my business card:

If you're one step ahead, you're a  
leader

If you're two steps ahead, you're a  
visionary

If you're three steps ahead, you're a  
heretic

# Be a heretic.

## Pwn Layer 8.

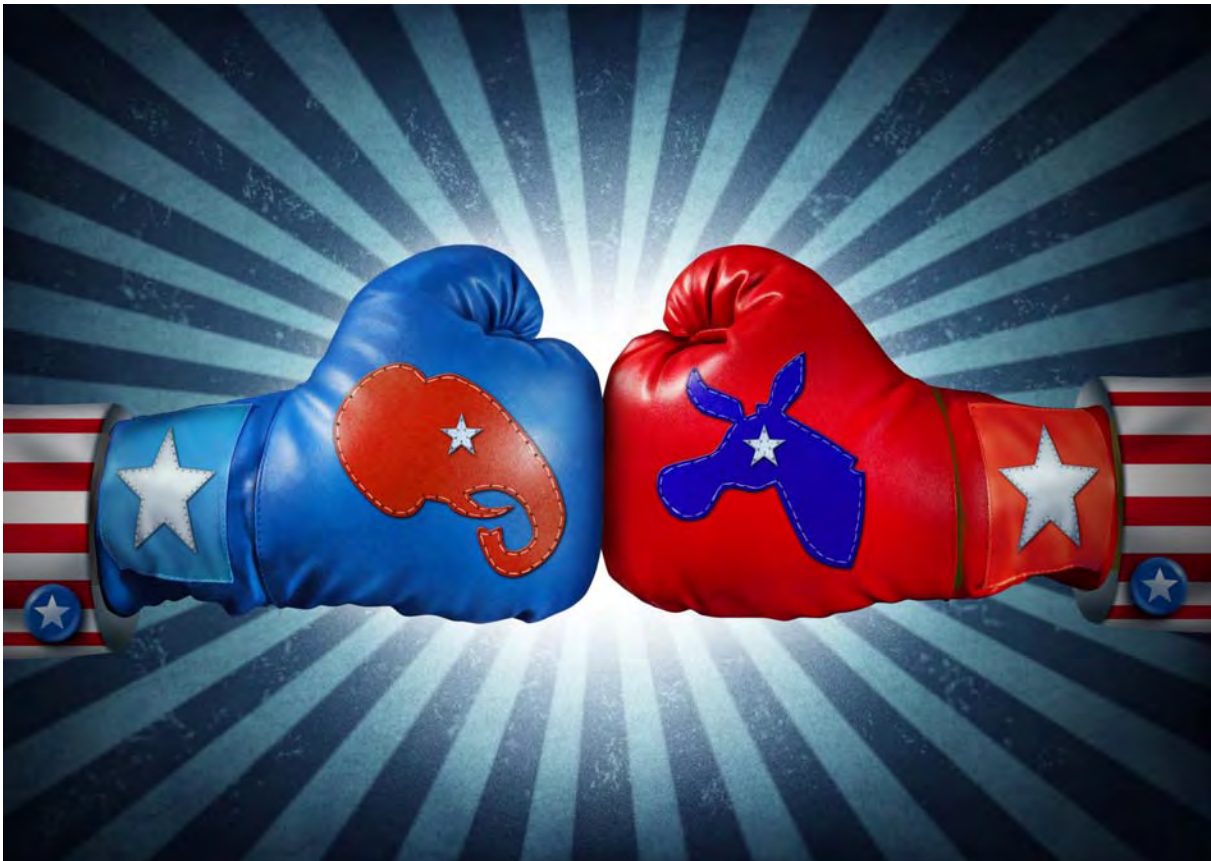
### We Have Defeated Evil...



Naziism,  
Facism,  
Saddam's nuclear  
arsenal,  
and next up is ISIS...  
All at a great cost...

Our biggest enemy isn't ISIS...

It's US.





US is more divided  
than it's been since 1865.

This is more than slavery, gender  
inequality, racism, gay rights.

It's about our ability to function  
as a cohesive society.

Many see America as a dream



## Many see America as a Threat



This is NOT the future



This is OUR vision of the future



America is YOUR FUTURE

THE NEW YORKER

NEWS CULTURE BOOKS & FICTION SCIENCE & TECH BUSINESS HUMOR CARTOONS MAGAZINE VIDEO ARCHIVE SUBSCRIBE

MARCH 17, 2015

The Biggest Threat to America's Future Is ... America

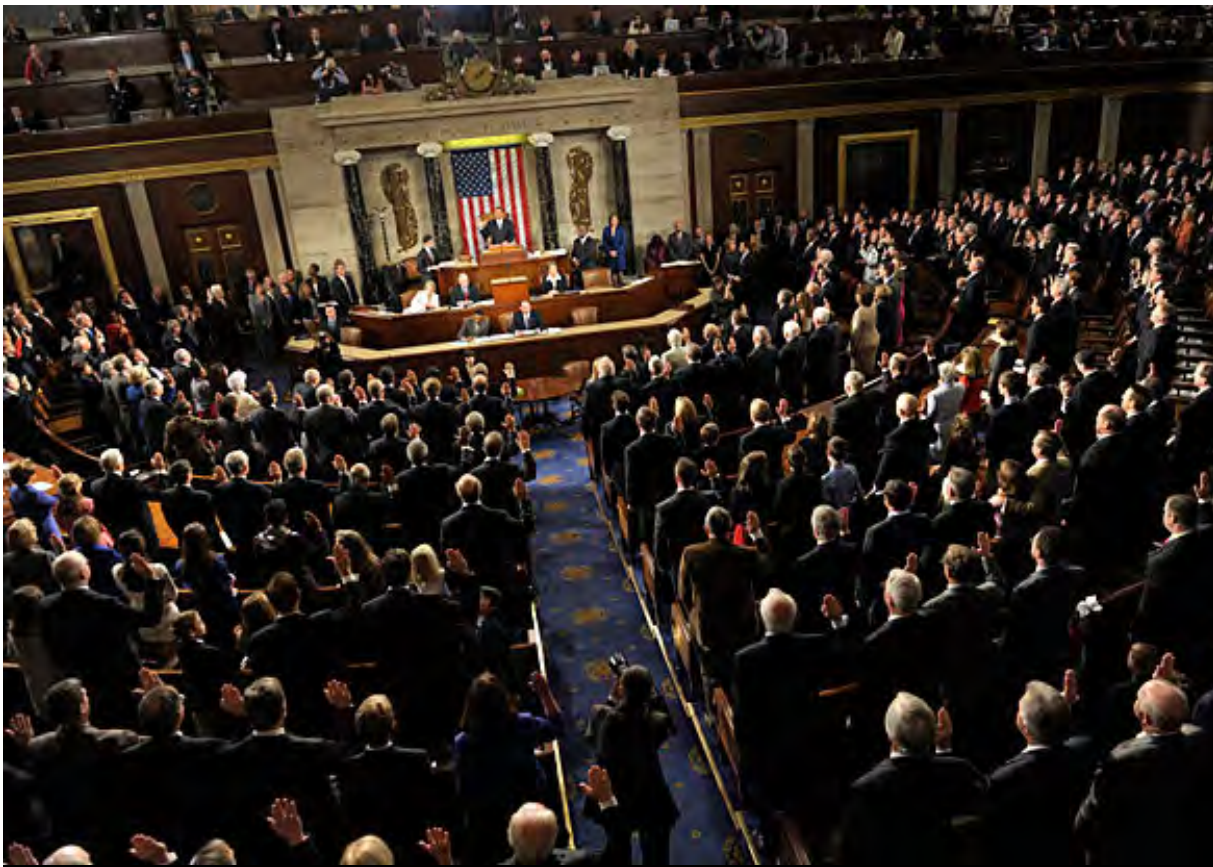
BY JOHN CASSIDY











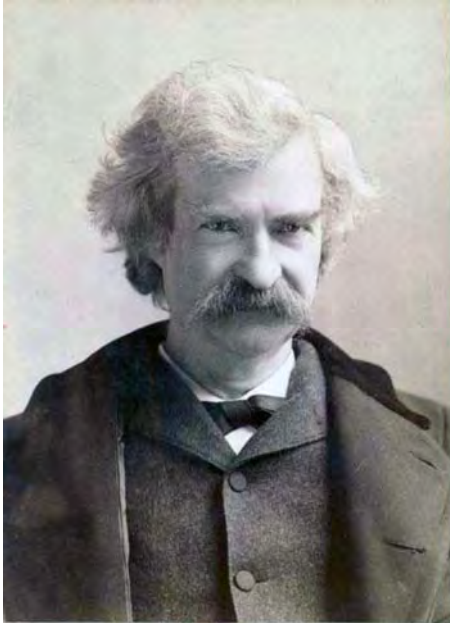
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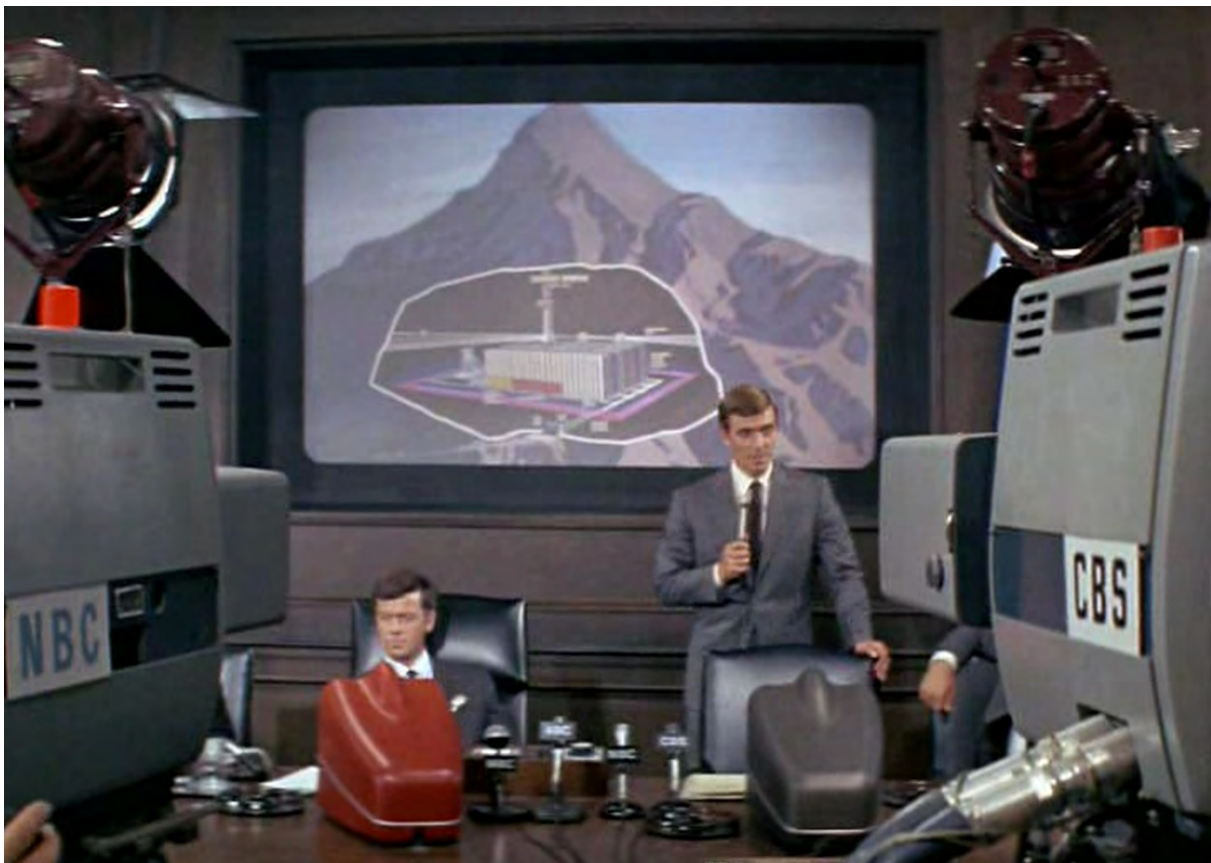


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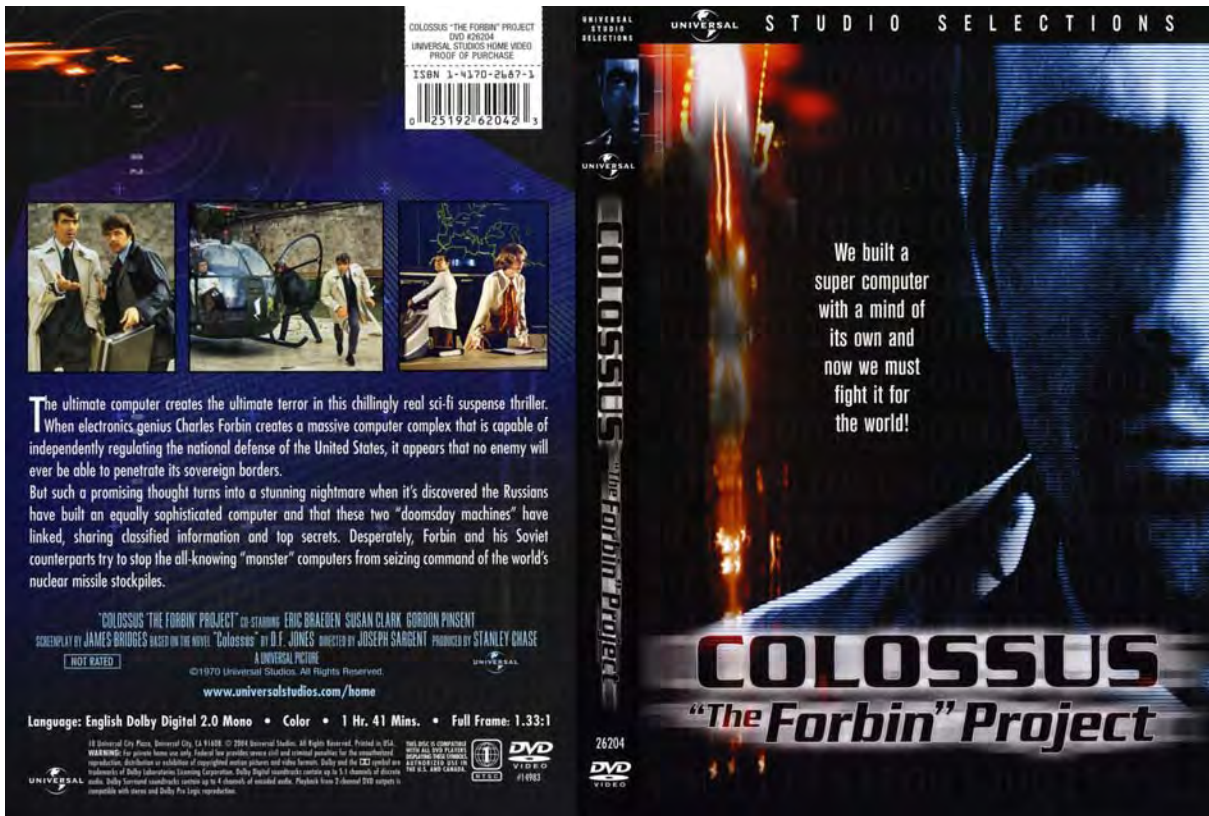
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“If voting really  
made a difference,  
they wouldn’t let  
us do it.”







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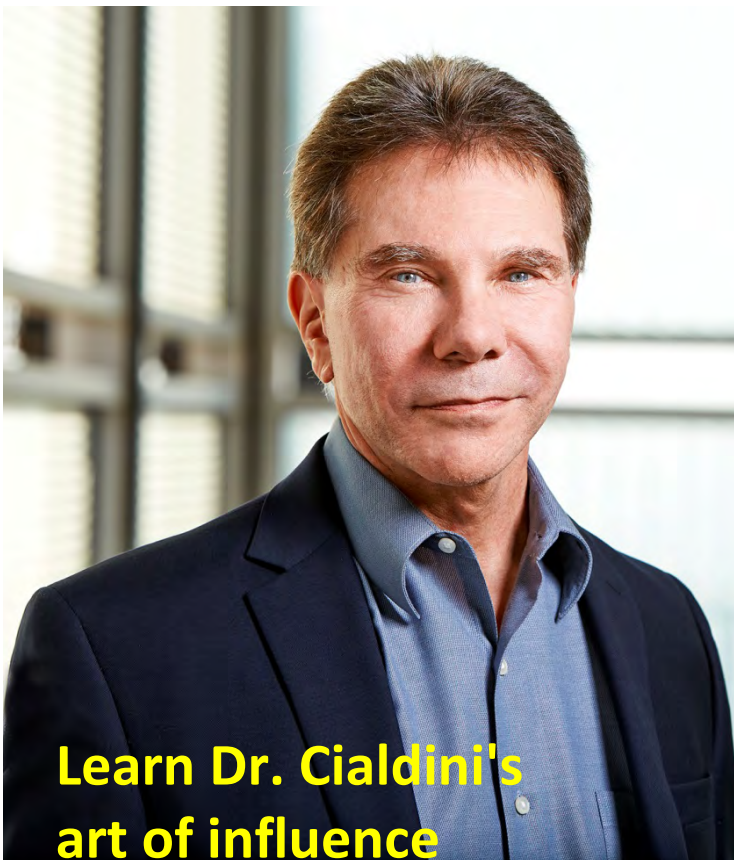
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How should  
we proceed?



**Learn Dr. Cialdini's  
art of influence**

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Reciprocity  
Consistency  
Social Proof  
Liking  
Authority  
Scarcity





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Why not?  
Hackers as CIO  
Hackers as CEO  
Hackers as  
generals and  
cabinet secretaries  
Why not a Hacker  
as President?



Imagine

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# Dan Kaminsky as President?



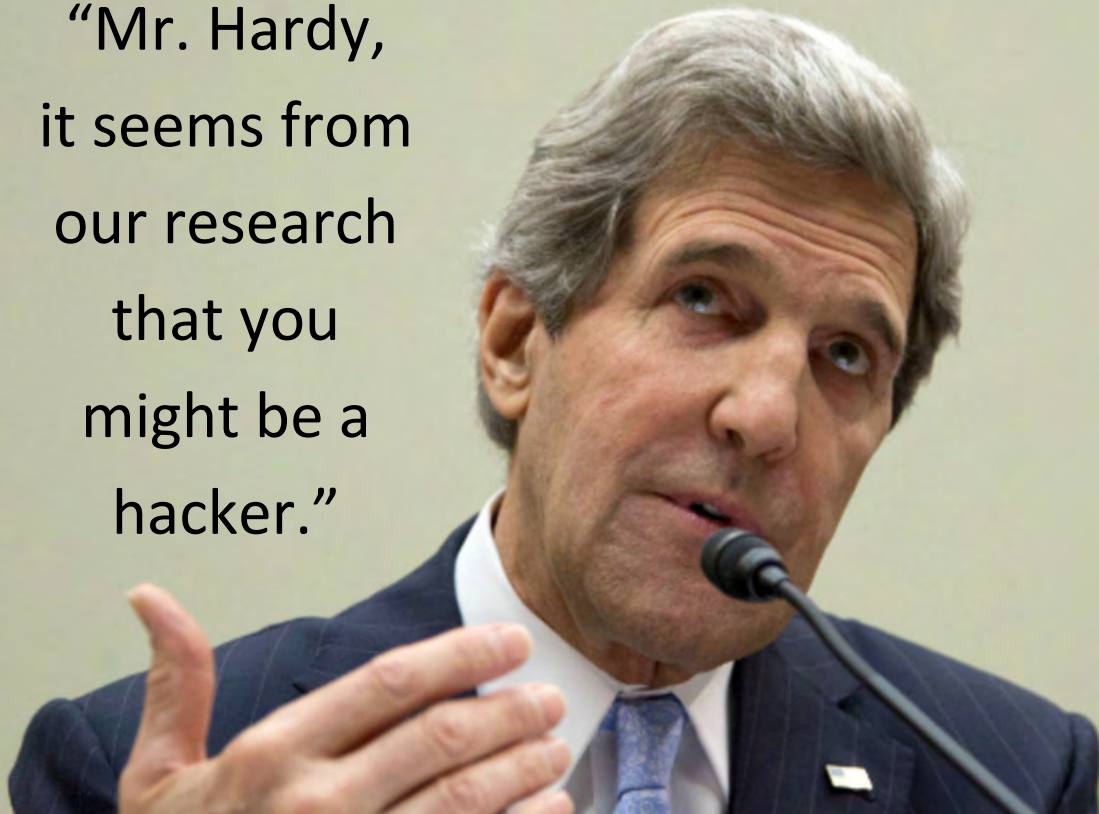
Yeah.

- Maybe not.
- (although I do like Dan)
- But you get the idea...

We can pwn anything,  
right? Right?



“Mr. Hardy,  
it seems from  
our research  
that you  
might be a  
hacker.”



It can be done...  
Let's Do It Right



Anyone know  
about  
Cincinnatus?



No way we  
can predict  
the future.



So become the future.  
You, for better or worse,  
are America's future.

You're Grrrrr 8!



# Thank you!

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@ g\_mark

LAYER



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Nyeahh!