

YOU'RE NOT YOUR IPHONE – OR ARE YOU?

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What we'll talk about

- Of course you're your iPhone!
- Of course you're not!
- Separating the I from the iPhone
- Bringing them back together
- Conclusions (or not!)







The questions we'll explore

- Why the number of devices you have matters
- Why your relationship to your device(s) matters
- What technological, societal and government regulatory trends are relevant in our relationships to our device(s)





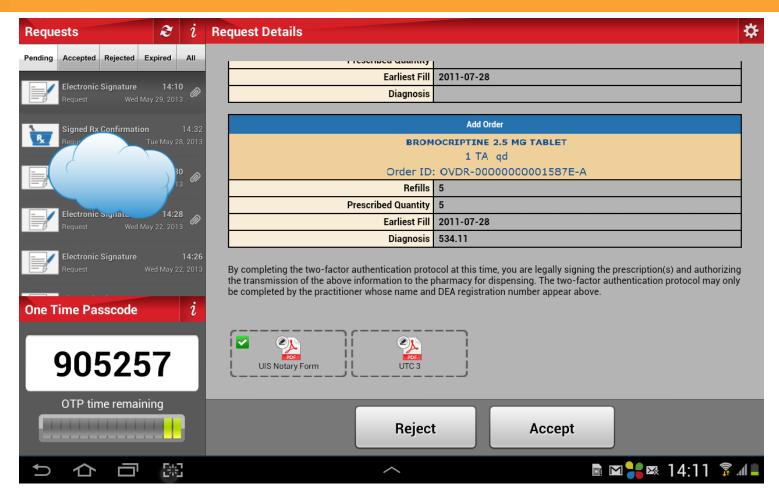


Of course you're your iPhone!



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Universal Identity is already here



Google's Universal Online ID







Too many devices



And we already have too many devices









You don't lose what's important



If we had only one device, wouldn't we be less likely to lose it?









Biometrics are Already Here



Why else did Apple buy AuthenTec?









Devices will get more versatile



In form as well as function, making single device even more feasible

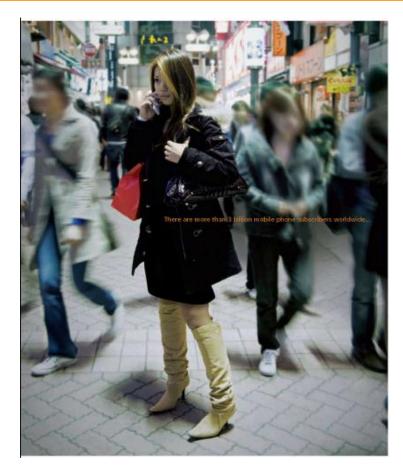








The Integration of Communication



► For digital natives, communication is integrated – so should your device be.









We are what We Wear



But our phone is more than an accessory

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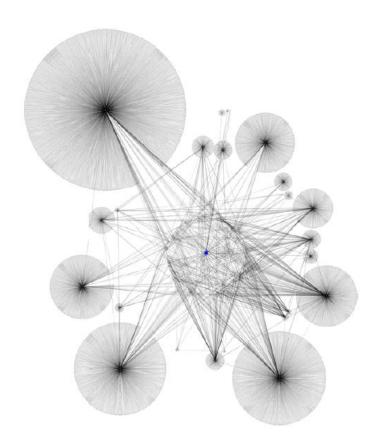


Of course you're not!



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Your identity is more than a device



Identity is a subtle, diverse set of relationships and attributes, intimately bound to particular contexts











We all have multiple personas



Shouldn't our devices be multiple as well?

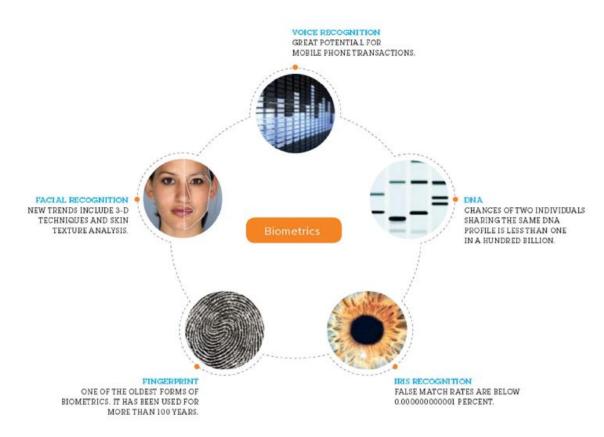








How do we identify ourselves



We don't rely on a single identifier. We shouldn't rely on a single device.











Multiple-use devices become unusable



Devices tailored to use or unusable, elaborate devices?









The "Swiss Army Knife" iPhone



Is this the really the direction to go?











You never lose your razor... but why?



- You only use it for a single purpose
- ► In a single context
- Those assumptions don't hold for mobile devices
- We can design a single, multiauthentication device... but should we?







A tempting analogy...



- It's tempting to think of your phone as a "virtual keyring"
- Tempting, but misguided
- Your keyring holds a collection of singlepurpose "credentials"
- They're all dumb
- It's always obvious to you which context you use them in
- All the different things for which you use your phone give rise to different contexts and kinds of risk







Are biometrics the answer?



- If our phone becomes our identity, what happens if we lose it (the phone, that is...)?
- How do you "re-issue" a compromised biometric?
- Who has your biometrics right now?
- There are "biometrics" you leave everywhere: is that good or bad?
- How robust will biometrics prove to be, over time?
- In short: an interesting technology, but we're still learning...









Fortunately, I have a solution



- Guaranteed handset security
- Simple user interface
- Universally applicable principle...







Also works for hard drives...



- I know what you're thinking...
- "You've only secured the disk, Robin, not the data"

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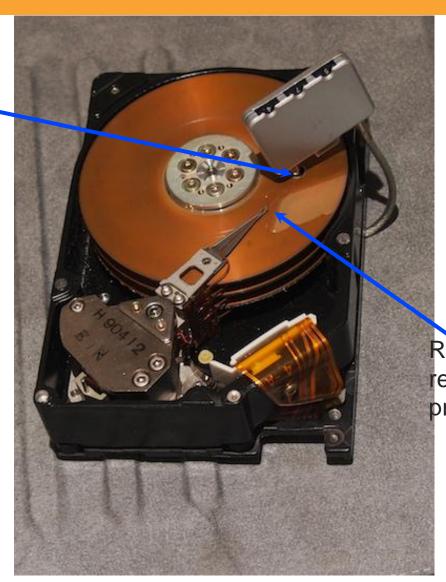






I'm way ahead of you...

ull, platter-level hysical security



Read/write head removed for added protection

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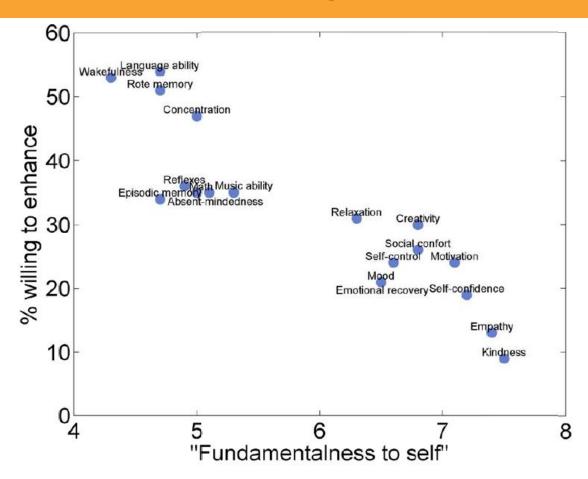


Taking the i out of the iPhone



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Our Multiple Selves



We constantly make decisions that affect our sense of self and how we present ourselves to others



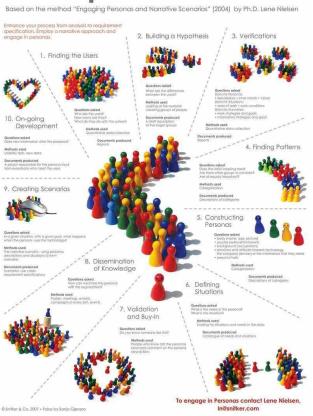






Personas in Marketing

10 steps to Personas



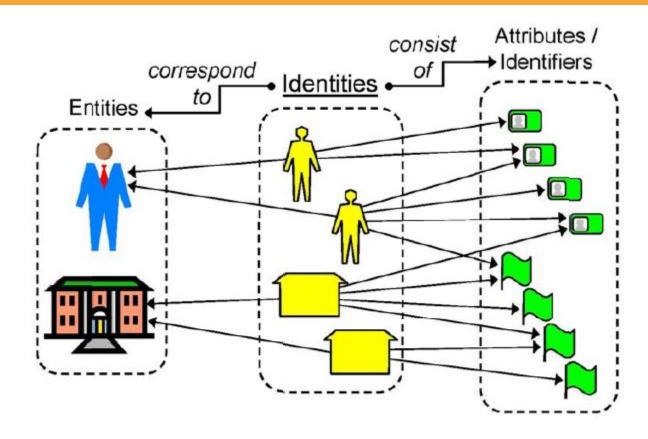
- Definition of personas for marketing purposes reflects one use of the multiple personas each of us has.
- The marketing/profiling industry is a complex ecosystem, invisible to most of us...
- ... and yet it is fuelled by monetization of our attributes
- You cannot manage something you don't see or understand







Entities, Identities and Attributes



- Our individual relationship to identity is inherently one to many.
- See Roger Clarke's excellent model, here:

http://www.rogerclarke.com/ID/#Summ









Managing Personas



Persona Management Solutions

► Tools that already exist for persona management show the need for multiple personas, multiple devices... and, frankly, better tools ;^(











What is the real design challenge?

- We should not be trying to design a "wallet"
- We need devices that can:
- Keep contextual data separate
- Support attribute-only assertions
- Make multiple personas/contexts clear and usable
- Rebalance user control vs service provider control
- Help us cultivate better identity/privacy habits
- Will that be enough?
- What happens when your devices talk to each other?
- What happens when service providers share data?







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Back to one device



The complexity of identity



We need to be able to manage our digital shadow

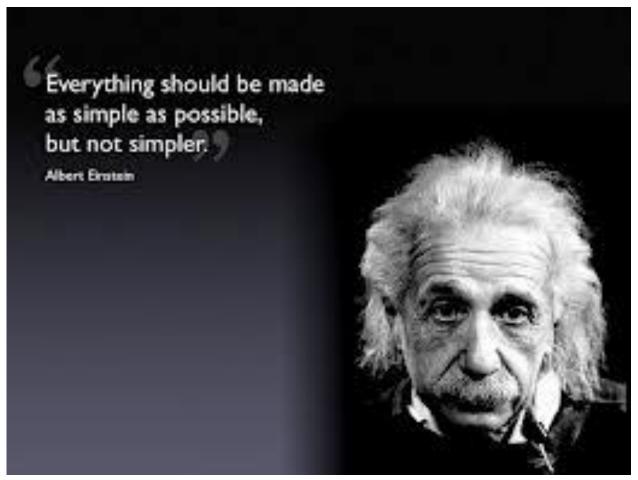








The simplicity of a single device



What could be simpler than a single device?











A simpler you



Research sponsored by the EU









In Conclusion...



What can individuals do?

- Develop stronger awareness of the issues/risks
- Understand the principles of basic privacy "hygiene"
- ► Take control of default settings in apps/devices
- Seek out specific tools that help manage identity/personas
- But above all:
- Recognise that fundamentally, identity isn't a "technology" problem
- Be prepared to adjust the value you place on privacy vs. convenience...
- ... only then can you change your privacy habits









What do **You** Think?

- Are both perspectives valid?
- A conflict of two goods?
- A wicked problem!









Security in knowledge

► Thank you!

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