Errors and web design!

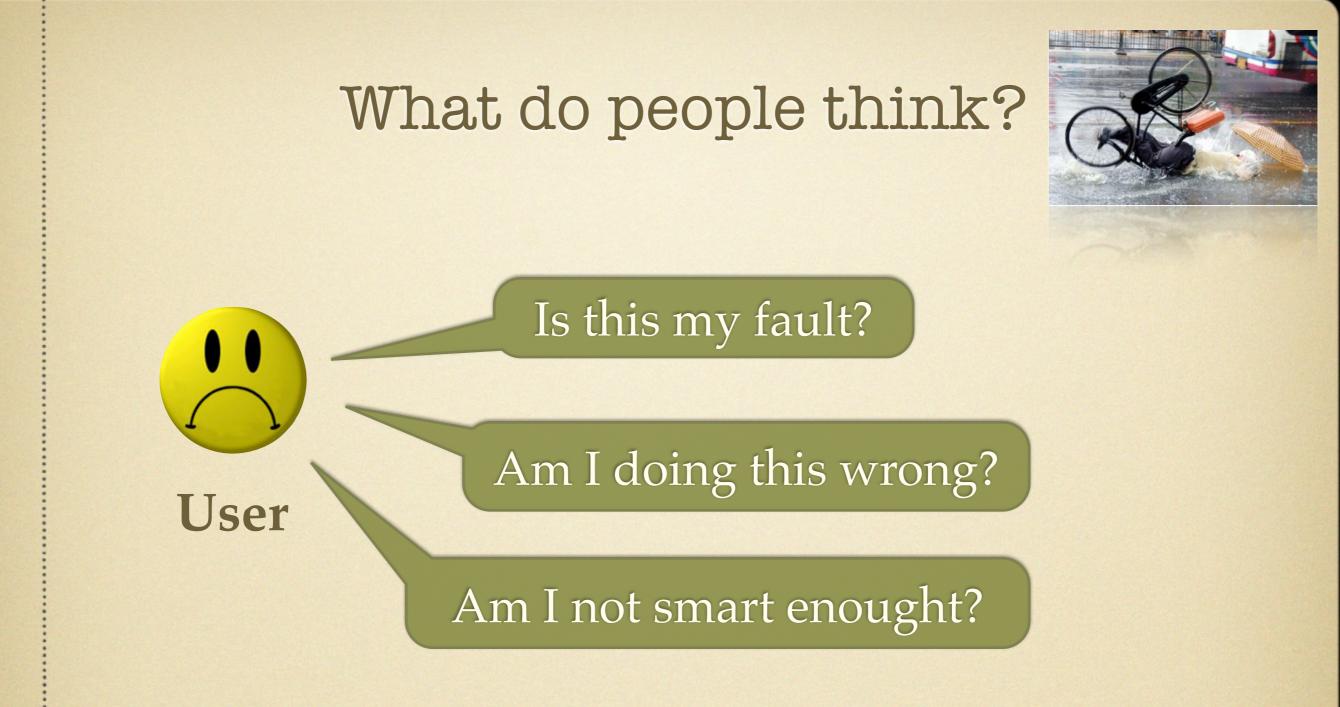
Error		×
STOP	User error - Replace user	
	(OK)	

Warni	ng		
Proceeding with the operation 'Delete' will erase the contents of your hard drive. What do you wish to do?			will
	Proceed	Delete	

Metropolia Single Sign-on Service
Password is a required field.
Passworu is a required field.
Username is a required field.
Username
Password
LOGIN

People make mistakes!





Feels stupid, embarrassed, loses confidence = stops using your site / app



What do people think?



You didn't watch the road! (use software correctly)

You're just too dumb!

Problem with our logic?

- We need to handle errors **before** and **after** they occur
- The best way to handle errors is to prevent them from ever occurring

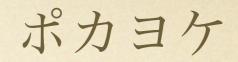
Poka-yoke

ポカヨケ

Is a Japanese term that means "error-proofing" or "mistake-proofing".

Its purpose is to **prevent**, **correct** or **draw attention** to errors as they occur.

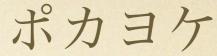
Poka-yoke



• Prevention (control) devices



Poka-yoke ポ



Detection (warning) devices

Can't prevent fire! But I can detect and notify it!



Poka-yoke and web design?

- Inline validation
- Error messages
- Errors into opportunities
- Auto-complete
- Mixed situation



twitter	
Join the Conv Already use Twitter o	ersation Already on Twitter? Sign in. n your phone? Finish signup now.
Full name	← enter your first and last name Your full name will appear on your public profile
Username	Your public profile: http://twitter.com/ USERNAME
Password	
Email	Let others find me by my email address Note: Email will not be publicly displayed
Terms of Service Printable version	Terms of Service These Terms of Service ("Terms") govern your access to and use of the services and Twitter's websites (the "Services"), and any information, text, graphics, or other materials uploaded, downloaded or appearing on the Services (collectively referred
Printable version	These Terms of Service ("Terms") govern your access to and use of the services and Twitter's websites (the "Services"), and any information, text, graphics, or other materials uploaded,

twitter			
Join the Conve Already use Twitter of	ersation n your phone? Finish signup now		Already on Twitter? Sign in.
Full name	Toni	⊌ ok	
	Your full name will appear on your public pro	file	
Username		\Rightarrow pick a unique name on t	twitter.
	Your public profile: http://twitter.com/ USER	NAME	
Password			
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	Let others find me by my email add Note: Email will not be publicly displayed	dress	
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Printable version	These Terms of Service ("Terms of the services and Twitter's any information, text, graphic downloaded or appearing on the	websites (the "Services" s, or other materials up), and A loaded, V

twitter					
Join the Conve Already use Twitter of	ersation n your phone? Finish signup now	Already on Twi	tter? Sign in.		
Full name	Toni	⊌ ok			
	Your full name will appear on your public pro	file			
Username		can't be blank			
	Your public profile: http://twitter.com/ USER	NAME			
Password					
Email		can't be blank			
	Let others find me by my email address Note: Email will not be publicly displayed				
Terms of Service Printable version	of the services and Twitter's any information, text, graphic	") govern your access to and use websites (the "Services"), and s, or other materials uploaded, Services (collectively referred			
Printable version	of the services and Twitter's any information, text, graphic	") govern your access to and use websites (the "Services"), and s, or other materials uploaded,			

Inline validation WRONG!

Welcome! English (US) T				A	Iready a member? Login.
remember ••• the milk	er Home	Sign Up (Free!)	Services	Blog	Help
Sign Up					
			8	Sign up wi	th your Google Account
First Name	Toni	✓			
Last Name	1	🗌 🕴 Last name is rec	quired		
Username					
Password					
Confirm Password					
Email Address					
Which Looks Right	02/14/02/11 02/14/11				
	I have read and accept th	e Terms of Use.			
	Sign Up				

Boring error message

Google	Epäjärjestelmällistyttämättömyydelläänsäkäänköhäänsä IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	laku	
 Kaikki Kuvahaku Videot Lisää Hakusi - Epäjärjestelmällistyttämättömyydelläänsäkäänköhäänsä - ei vastaa yhtään Ehdotuksia: Varmista, että kaikki sanat on kirjoitettu oikein. Kokeile eri hakusanoja. 			
Helsinki Muuta sijaintia	 Kokeile yleisempiä hakusanoja. 		
kaikkialta internetistä suomenkielisiltä sivuilta	Epäjärjestelmällistyttämättömyydelläänsäkäänköhäänsä	laku	
sivuita maasta Suomi Käännetyt vieraskieliset sivut	Hakuvihjeitä Anna palautetta Google Etusivu Googlen mainontaratkaisut Yritysratkaisut Tietosuoja Tietoja Googlesta		

Lisää...

Turn the error into advantage!

Bern .		& Kirjaudu sisään tai luo tunnus
A D W	Toimintosivu	Käyttöliittymäsuunnittelukirjalli:Q
WIKIPEDIA	Hakutulokset	
Vapaa tietosanakirja	Käyttöliittymäsuunnittelukirjallisuus Etsi	Owners
Etusivu	MediaWiki-haku Google Yahoo Bir	ig 🔘 Wikiwix
Tietoja Wikipediasta Kaikki sivut	Sisältösivut Muut mediat Ohje- ja projektisivut Kaikki Laajennettu	
Satunnainen artikkeli	Hakusi ei tuottanut tulosta.	
 Osallistuminen Ohje Kahvihuone 	Luo sivu <i>Käyttöliittymäsuunnittelukirjallisuus</i> tähän wikiin.	
Ajankohtaista Tuoreet muutokset Lahjoitukset	Yksityisyydensuoja Tietoja Wikipediasta Vastuuvapaus	wikimedia project
Työkalut		
Työkalut		
Agrosofiteista Tuoreet muutokset Lahjoitukset		WIKIMEDIA Druged

Turn the error into advantage!



Käyttöliittymäsuunnittelukirjallisuus

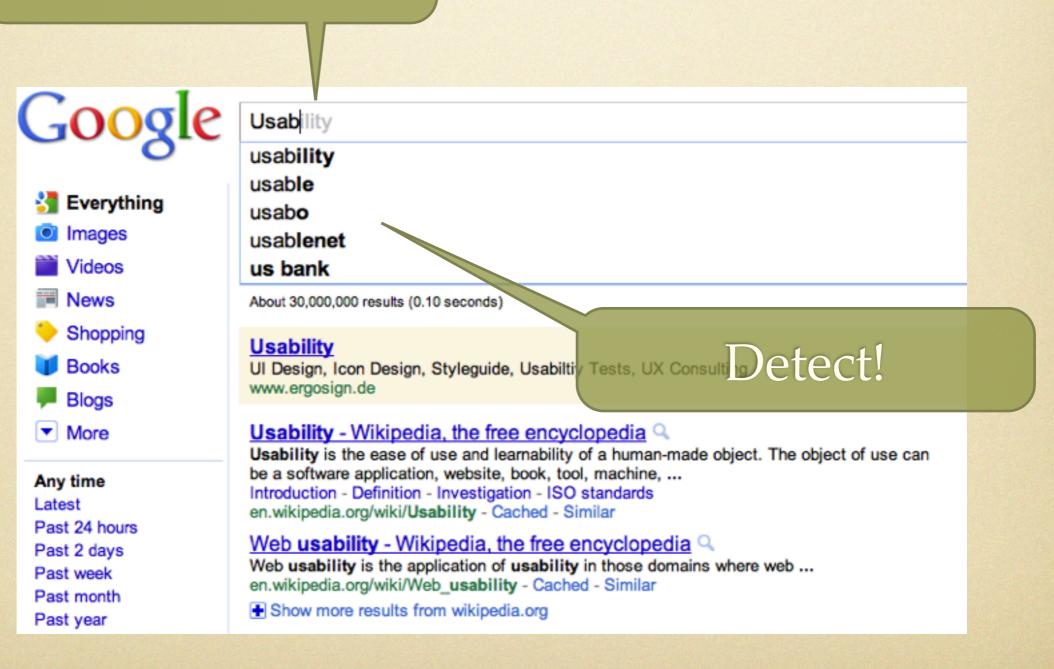


Congratulations! You are one of the FIRST to search for this topic in Squidoo. Why not be one of the first to BUILD A LENS on it?.

Congratulations! You are one of the FIRST to search for this topic in Squidoo. Why not be one of the first to BUILD A LENS on it?.

Auto-complete + mixed situation

Prevent!



Downside of Poka-yoke

- No one will ever realize how clever you were
- Users don't see the errors that **could have** happened.

Conclusion

Don't tell that the user has done something wrong! (pop-up, error message, etc...)

Design the system in such way that the user **never** has a change to make a mistake!

