

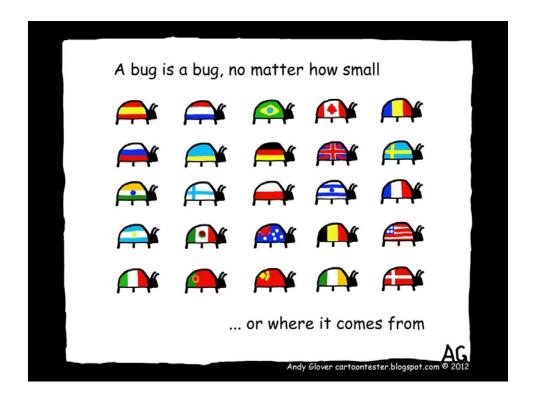


Key Questions

- Localisation:
 - Do you know if you are offending someone?
- Globalisation:
 - Do others understand things the same way you do?
- Internationalisation:
 - Does it work?



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The Players: Who Tests i18n?

- Tester, Developer, Product Owner, Tech Writer
- Anyone interested in checking that the software:
 - works and makes sense for people in other languages/locations
 - doesn't offend someone in a different language



NOTE: You do NOT need to know another language to be good at this kind of



The Context: Definitions

- Internationalisation a.k.a. i18n

 the process of designing and coding a product so it can perform properly when it is modified for use in different languages and locales.

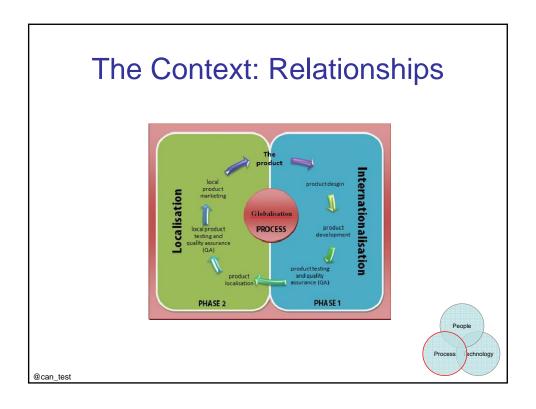
> What does Testing look like here?

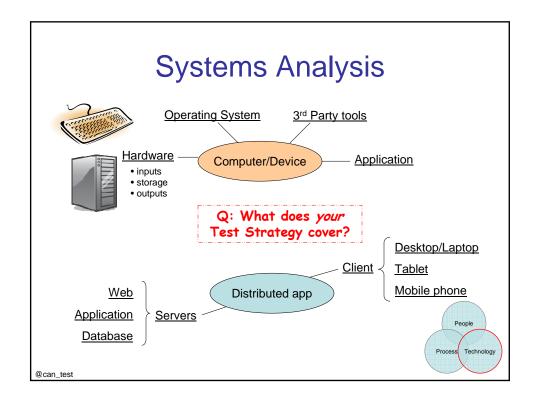
Localisation - a.k.a. L10n

e. the product, of translating messages and content of documentation as well as marking specifically local the process, on a properly internationalised base documentation as well as modifying other locale-specific files.

People

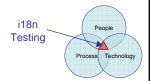
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i18n Test Strategy Guideline

- 1) Research your target audience(s)
- 2) Test UI
- 3) Test Data Inputs
- 4) Test Data Flow
- 5) Check/confirm/validate with the *Locals* (They don't call it "Localisation" testing for nothing)



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(2) Testing the UI

Start with the UI - Does it look right?



Changing your "Regional Settings" is a quick way to size up the scope of L10N applied.

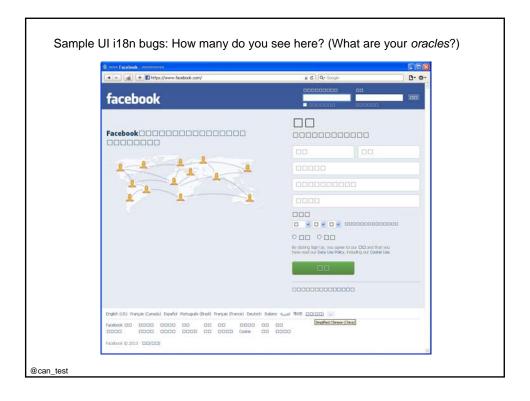
(WHAT) Things to look for in App UI include:

- Correct language appears everywhere!
- Number formatting
- Currency symbols
- · Time & Date format; Time Zones
- Buttons, labels, menus correctly wrap longer strings

Warning: many things still missed this way!

Tip: Install a different-language OS to discover more differences.

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i18n Téstïng Tïp

- Check i18n with a made-up string set
- For example, copy your "strings" file so that your labels, buttons, etc. use different characters
 - Before: "Enter your username" After: "Le Entér yôür üsérnåmé.
 - > Still readable. Identify missing strings quickly.

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PUBLIC SERVICE ANNOUNCEMENT:

OUR DIFFERENT WAYS OF WRITING DATES AS NUMBERS CAN LEAD TO ONLINE, CONFUSION, THAT'S WHY IN 1988 ISO SET A GUBAL STANDARD NUMERIC DATE FORMAT.

THIS IS THE CORRECT WAY TO WRITE NUMERIC DATES:

2013-02-27

THE FOLLOWING FORMATS ARE THEREFORE DISCOURAGED:

02/27/20/3 02/27/13 27/02/20/3 27/02/3 20/30227 20/3.02.27 27.02.13 27-02-13 27.2.13 20/3.15.27 27/2-13 20/3.15.8904109 MMXIII-II-XXVII MMXIII $\frac{LVII}{CCCLNV}$ 1330300800 ((3+3)×(111+1)-1)×3/3-1/3³ 20/3 $\frac{1}{2}$ 137 10/10/10/10 02/27/20/13 $\frac{1}{2}$ 137

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http://xkcd.com/1179/

(3) Testing Data Inputs

- Does the system accept what you input?
- Testing Tips:
 - use names with accented characters:
 - e.g. Édouard, Jérôme, Željko
 - names with apostrophes: Miles O'Brien
 - double-byte characters: Chinese, Japanese, ...
- Apply these everywhere, not just Name fields:
 - file and folder names, company names, other record types
 - usernames, passwords, email addresses
 - · Search fields, ...

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(4) Testing Data Flow

- Does the system work with what you input?
- Does the data correctly:
 - a) save (to file, database) and retrieve? (CRUD)
 - b) display? (in lists, drop-downs, title bars, different fonts, etc.)
 - c) transform? (e.g. capitalisation, etc.)
 - d) sort?
 - e) print?



- Web apps correctly encode strings (for URL's, etc.)?
- WARNING: 3rd Party tools & integrations = Fail Magnets

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(5) Check with Locals

- Sometimes the correct context requires more than just a string translation.
- The Monty Python Heuristic



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Putting it Together

- What are some ways to integrate this into your Testing?
- What do you think?



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Références

Articles:

- "Testing with an Accent"
 - by Paul Carvalho, Better Software, Feb. 2005
- · "As a tester do you think globally?"
 - by Karen Johnson, Tea-time with Testers, Jan. 2012
- "Bare Minimum Internationalization"
 - by Rick Scott, StickyMinds.com, Apr. 2012
- "What's Wrong With Turkey?"
 - by Jeff Atwood, CodingHorror.com, Mar. 2008
- "Translation is UX"
 - by Antoine Lefeuvre, AListApart.com, Dec. 2012



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Références

Advice from big orgs:

- http://www.w3.org/International/
- http://msdn.microsoft.com/en-us/library/Aa292185
- http://developers.sun.com/dev/gadc/des_dev/Intl_Testing.html

References:

- http://en.wikipedia.org/wiki/Internationalization_and_localization
- http://en.wikipedia.org/wiki/List_of_Google_domains
- World Currency Symbols: http://www.xe.com/symbols.php



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Références

Tools:

- Translators:
 - http://translate.google.com
 - http://babelfish.yahoo.com



- Did You Know: MS Word has built-in translator
- Test Data:
 - International News pages (check other Google domains)
 - Humorous Random Phrase Generator: http://www.smartphrase.com/
 - Translations of "My hovercraft is full of eels":
 http://www.omniglot.com/language/phrases/hovercraft.htm
 - International Baby Name lists

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