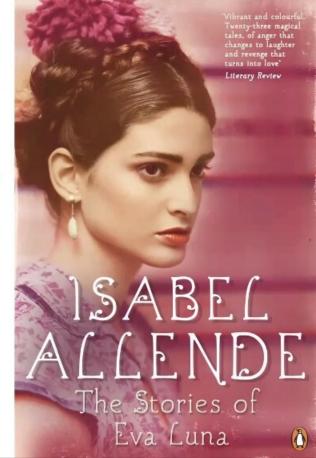
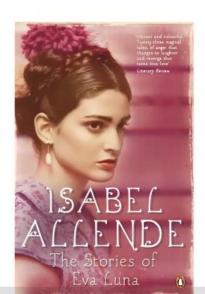
Names

"Two words" tale (read it if you can)



Names

Let's talk about names on the web, both sides: social and technical



Web names: social side

- How to choose a good web address?
- There are some rules that can maximize the potential success of the site
- How much? (read as: shoud we care about a name?? Can it really impact a website??)
- Answer: on average 10-20%, with variance up to 50% (!!)

Shorter names work much better than longer names

The name should be unique, sufficiently separatable from other names (that is: it shuld not be confounded with other names!)

- ◆Take the .COM (!!!!)
- ♦ Impact: about +4.5%

It should be easy to memorize and write

- (overlapping with rule n.4): better to choose existing words rathen than creating new ones
- In any case, if new words, or acronyms, are used, the important factor is the ratio between the «standard» words and the new ones: the higher the better
- ◆Range: from +1.5% to -5% (!)

Beware the sound...!

The beginning of a name....

- Names that start with a wovel work well (about +3.7%)
- Semi-wovel (r, j, y, w) work well (about +2.9%)
- Surprise: consonants like f, v, s, z work even better (+3.3%)

Sound (cont.)...

- Sounds associated with bad words in English (like the phonem «uh», like in «yuck») damage the site up to a – 44% (!)
- ◆In other contexts though, for instance adult material (!), they give advantages up to +7% (!!)

Ruke 8

- No numbers
 (rule that is also present in the Internet)
- **♦ FALSE!**
- ◆In fact: use numbers! (Impact: about +8.2%!!!!)

- Be careful on how you check whether a domain is free or not... (!!!!!!!!)
- Suggestion: internic

URI!!

◆Uniform Resource Identifier



URI and Web addresses

- ◆URI == web addresses http://...?
- **♦NO!**
- URIs are a superset of the web addresses http://....

Web addresses

- Common use for instance to say www.mysite.com
- This is not a URI!
- And in fact... the form above doesn't exist in any standard (!)
- It's the browsers that, for convenience, translate this "web address" (for the people) into http://www.mysite.com/

Examples of URIs

- http://corsi.math.unipd.it/wim
- news:it.culture
- telnet://example.net:453

URLs

- Uniform Resource LOCATOR
- URLs are those URI that identify the resource via a representation of their primary access mechanism
- So, yes, for instance web addresses like "http://..." are URLs

URNs

- Uniform Resource NAMES
- URNs are those URIs that stay unique and persistent even when the resource doesn't exist any more or it not available any more

The Schema

- Defines the semantics (the meaning) of the URI
- For instance
- ◆In http://corsi.math.unipd.it/wim
- ... the schema is http
- ♦ → This is a URI whose semantics is set by the formal specification describing the http schema

Hierarchical URIs

- ◆Typical general form:
- **♦** Schema :// authority path ? query

Authority

- Literally, the authority!!
- The element that states that URI is under control of a certain

authority

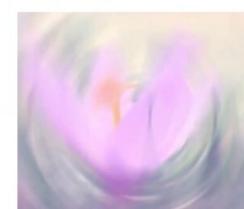
Query

Information interpreted by the resource ("input parameters")



Example

- mailto:director@cnn.com
- ♦ mailto → schema
- ♦director@cnn.com → opaque_part



More URIs

- **◆TELEPHONE** (/FAX etc etc)
- ◆Rfc2806
- Examples:
- ♦tel:+358-555-1234567

Beware...



- To use relative URIs that are completed into something we don't want
- Example of one of the most common web errors: in our http://www.mysite.com we insert a link to "www.othersite.com"
- ♦ → completed into "http:www.mysite.com/www.othersite.com"

Example (cont.)...



- Within http://www.mysite.com, we insert in a web page the email link to "shop@mysite.com"
- ♦ → completed into "http:www.mysite.com/shop@mysite.com"

URNs

- Uniform Resource NAMES
- ◆Typical form:

urn: NID :...

ISBN as URNs

- ◆Rfc3187
- ◆URN:ISBN:0-395-36341-1



New Zealand...

- Has been the first state to ask and obtain a URN of its own (!)
- ◆urn:nzl:...



Beyond URI

- URI: URLs URNs etc
- But.... what encoding?
- **♦**ASCII...(!) ⊗
- \rightarrow IRI (Internationalized Resource Identifiers)







IRI and security...

- *IDN (Internazionalied Domain Names), even in extensions: example .pφ (.ru)
- Homograph attack (rnicrosoft.com, G00GLE.C0M...)
- ♦ → enormously powered up with IRIs (es. Cyrillic, Greek etc)

wikipedia.org

Back to URI: problem

What is the data format of http://www.sito.it/a/b.html? (Italian? English? French?)



The Answer

- That information is not part of the URL/URI: the web address is a black-box string, and every property depends on the schema, not on the string (!)
- ◆ HTTP provide methods (content negotiation) to transmite the correct data format. Every other algorithm (like using the final extension of the URL, like .txt, .gif etc) is not 100% reliabledell'URL non è attendibile.

"TLD overkill"

Create a new TLD to solve a problem

Example of problem:

In the Internet it's full of crazy perverts, lots of sex and vulgar people!!





. . .



And dually...

Proposal to add a .kids ("secure" site)



Other proposal

- *****".adult"
- ♦ → more generic, "adult website"



Proposal... by whom?

 ICM Registry, California-based company (Palm Beach Gardens)





So we can implement this two ways...

- ◆["light"] Adding domains with these new TLDs, or
- ["strong"] Force all the content of a specific kind into the corresponding TLD



Costs?

- Technological cost: SUPER LOW!
- ◆Social cost: ... (!?)

Pro/cons ("light" case)

- ♦ Pro: ???
- Con: companies will (maybe) buy another .sex domain, keeping the existing one
- Question: But that's just a transition, eventually they will all migrate, no?
- Answer: no! (tracking/filtering)

Example...



What is this?

- The most famous test image used in computer graphics (great mixture of details, "flat" regions, shading, textures)
- Time ago it even came included in every graphic program (like for instance within Windows with Paint)

The lady?

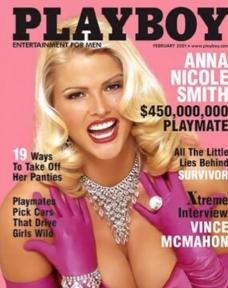
Lena Soderberg (ne Sjööblom), Swedish, happily living there, married with three children, working in the state monopoly and helping as a volunteer for disabled people

Playboy!

... scanned from the big centerfold page

of Playboy (1972!!) and ..





... "cropped"...



And so...

- In 1996 someone curios finds out
- ♦ → petition to ban forever that (for instance from all articles in the

IEEE TRANSACTIONS ON IMAGE PROCESSING)

◆ Formally never "forbidden", but "strongly suggested" not to use it → people started to use it less and less → taken out from all graphic programs



Boundaries...

So what is porno and what is not? (Renoir, Picasso, Dali', Botticelli, a Fellini movie?)









Douglas Crockford

Co-inventor of Javascript, JSON etc... (!)



JSMin

- The reference library to minimize Javascript
- License, free software with an added sentence:
- "The Software shall be used for Good, not Evil"



Result

◆Infinite legal battles and argumentations... (!), whole operating systems incorporating that library at risk... (!!!)

SQLite

"May you do good and not evil May you find forgiveness for yourself and forgive others May you share freely, never taking more than you give."



Back to URL: the moral

Using URLs for scopes that go beyond, forcing information that doesn't belong there, is just stupid!



JSMin

- The reference library to minimize Javascript
- License, free software with an added sentence:
- "The Software shall be used for Good, not Evil"



And in fact...

- ◆18 March 2011...
- •xxx has been approved....
- Real effect?
- ◆200 milion dollars a year more in the

bank account of

ICM Registry (...!!)