

Obstacles for following i18n best practices when developing content at INAF

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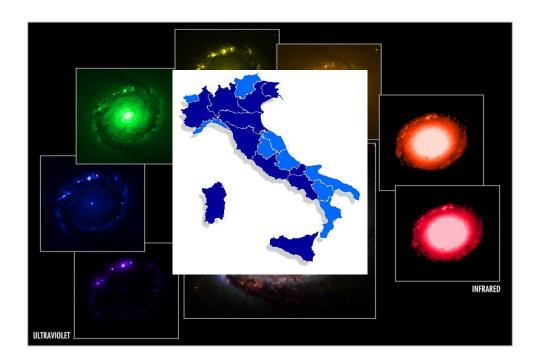
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W3C Workshop – Content on The Multilingual Web



INAF: Who are we





INAF (National Institute for Astrophysics) – an italian research institute (19 institutes in Italy + 2 main facilities (TNG in Spain and LBT in Arizona, USA)

Mission: Scientific and technological research in astronomy and astrophysics through international projects designing and implementing infrastructure from earth (i.e. future projects E-ELT, SKA) to space (ESA GAIA).



Dissemination results through web content

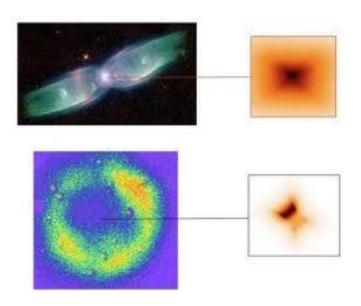
Web content for astrophysics

THE WEB =

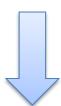
Ideal platform to deploy modern astrophysical applications (i.e. web user interfaces) and to disseminate information (i.e. websites).



We need web standards to design, develop and deploy web content







Web content = from web pages (including text, images, forms, sounds, web code, etc.) to multimedia format (especially) audio/video solutions) and social objects (i.e. tweets)



INAF stakeholders and web content authors

STAKEHOLDERS

- Heterogeneous
- International (different countries)

WEB CONTENT CREATORS

- Heterogenous
- Not specifically web skillful





Why we need internationalization and multilingual content

- Our stakeholders are multilingual
- Science needs international collaboration (even if english is common language, giving content in native language increases communication)



BUT INAF situation is:

- Content/websites in one language (italian or english);
- Several authoring tools for web content (i.e. for websites from «hand-make» code to disparate CMS) and use of proprietary technologies (i.e. Flash);
- Content hosted in several web servers



The obstacles to i18n best practices

Our content authors and the necessity to be web skillful in order to follow best practices

- Authoring tools could not generate automatically web content (i.e. necessity to control the code for example for encoding);
- Web CMS-like frameworks used for their simplicity to publish content do not often adhere to web specifications;
- Authors do not follow web standards and practices (i.e. most of webpages do not yet fully make use of style sheets separating presentation from content);



What we need

As INAF

- To educate our authors to follow standards and best practices to guarantee added-value to their content (internationalization, usability, accessibility, etc.)
- Produce a simple document that summarizes best practices in achieving such a goal

From authoring tools makers

 Automation in generating content that satisfy internationalization and multilingual objectives



To conclude

Main questions:

- 1. What could be the best way to produce multilingual web content to communicate astrophysical science and its projects?
- 2. How we could educate and persuade our content authors to follows i18n practices while using their preferred web authoring tools or web content management systems?

A solution: having automatic tools generating "good" content – however we have to persuade our authors and educate them to web standards



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