Multidimensional Quality Metrics (MQM) A New Framework for Translation Quality Assessment

Arle Lommel (DFKI)



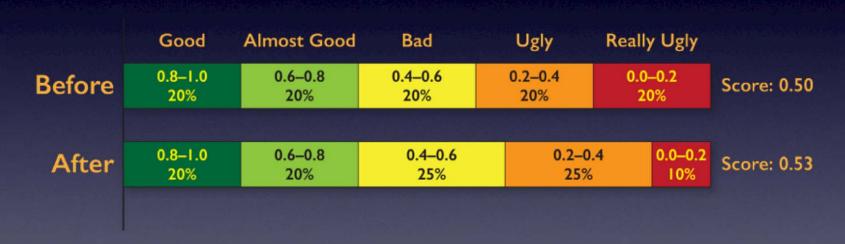


QTLaunchPad is an EU-funded project to lay the ground for systematically identifying and addressing the barriers to high-quality translation.

Many ways of assessing quality = no agreement

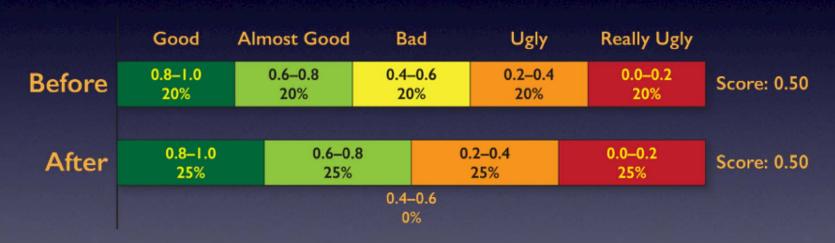


The problem with BLEU/many reference methods



Increased BLEU score but no substantial improvement for human use

The problem with BLEU



Substantial human improvement but no BLEU increase

MT methods require reference translations: Cannot be used for production purposes



Human quality assessment takes too much time and is not principled



Wait a minute... What do you mean by quality?



Quality: A New Definition

A quality translation demonstrates required accuracy and fluency for the audience and purpose and complies with all other negotiated specifications, taking into account end-user needs.

Source: Alan Melby

Why not use a single, shared metric?



Which one?

LISA QA Model **SAE J2450** SDL TMS Acrocheck **ApSIC XBench** CheckMate **QA** Distiller XLIFF:Doc EN15038...

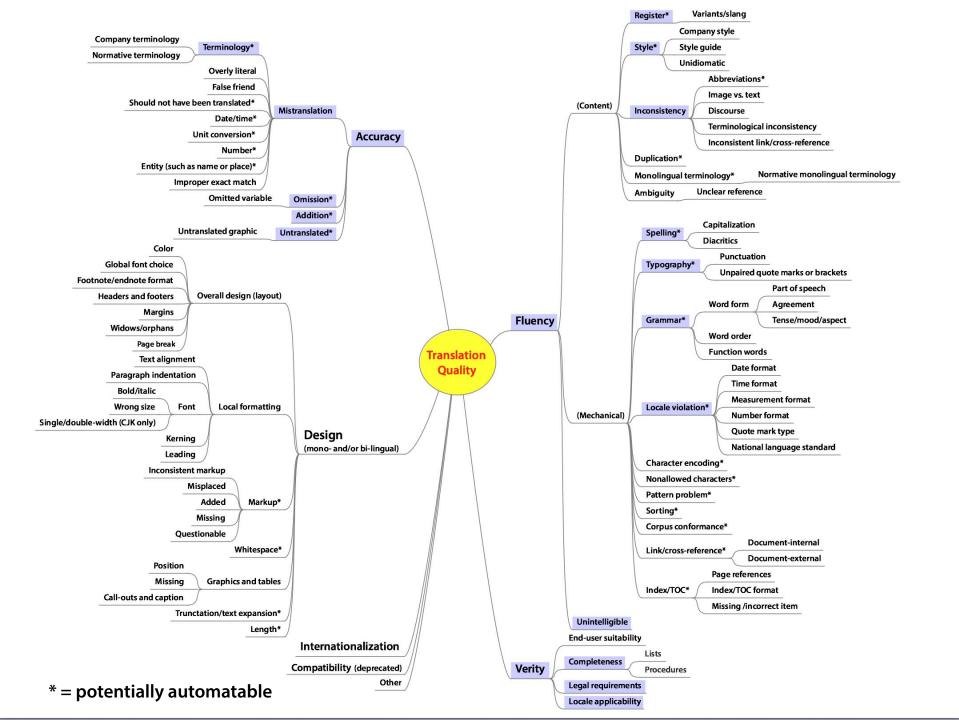
All of them disagree* about what is important to quality

*The only thing they agree on is terminology



The solution





Are you kidding?





The MQM Core

Don't assume. Use specifications.



Specifications based on 12 Parameters

(from ISO/TS-11669)

- 1. Language/locale
- 2. Subject field/domain
- 3. Terminology (source/target)
- 4. Text type
- 5. Audience
- 6. Purpose

- 7. Register
- 8. Target text style
- 9. Content correspondence
- 10. Output modality
- 11. File format
- 12. Production technology

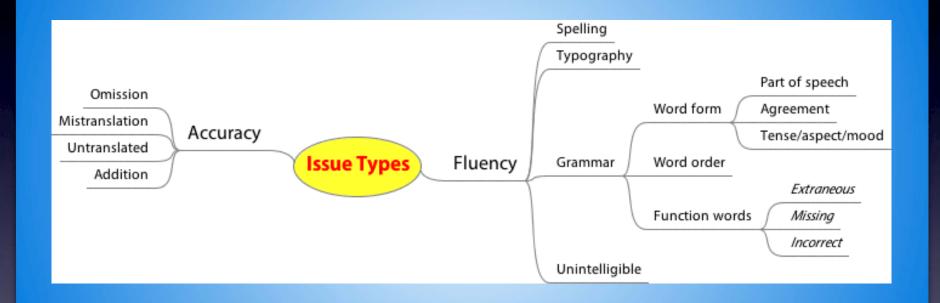
http://www.ttt.org/specs

You don't use all of MQM (or its core): you use the parts you need.

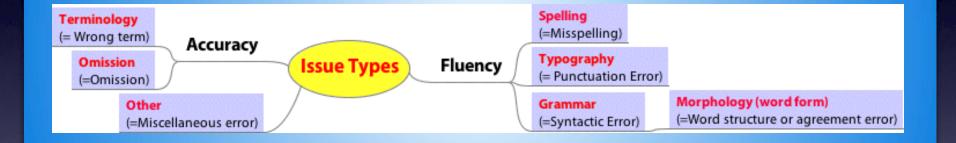


MQM lets you declare your quality metric in a shared vocabulary.



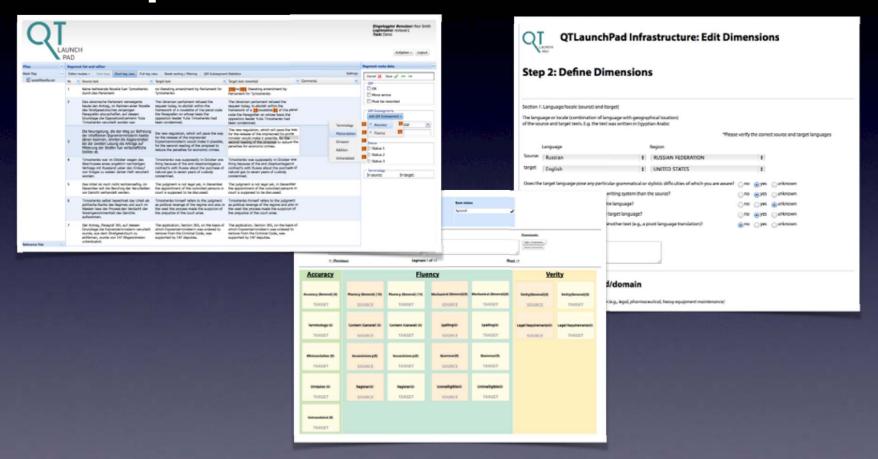


MQM for MT Diagnostics



SAE J2450

Open-source and online tools



DEMO: http://www.translate5.net
http://scorecard2.gevterm.net

MQM for large organizations

- Automatic MQM profiles
- Share MQM profiles
- Sampling methods and quality estimation
- Compare MT and human output directly
- Include MQM profile in RFPs

Looking for feedback: http://www.qt21.eu/ mqm-definition



Questions?

Learn more at http://www.qt21.eu

