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To cite this version:
Mihnea Tufis, Jean-Gabriel Ganascia. Crowdsourcing annotations for comics corpora. 2017. hal-01495518

HAL Id: hal-01495518
https://hal.sorbonne-universite.fr/hal-01495518
Submitted on 25 Mar 2017

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Crowdsourcing annotations for comics corpora

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In this proposal, we address the difficulty of creating a digitized corpus by using a crowdsourced approach for annotating comic books. The resulting XML-based encodings could assist not only researchers, but publishers and collection curators equally.

The motivation for our work is three-fold. Digital Humanities scholars will be provided with an annotated corpus for conducting research relating to comics and sequential art. Curators and collectors would be provided with a structured content, which could be more easily integrated within their collections or databases. This may assist them into enlarging public or private databases of characters or comics series and enable the creation of artefacts such as comic books dictionaries, search indices and dictionaries of onomatopoeia. From a publishing perspective, the data we are collecting will allow publishers and digital comics authors to create enhanced content for a better reading experience.

Our proposal is a complementary solution to image processing approaches for identifying page/grid structures and extracting text from narration devices (i.e. different types of bubbles) [4]. We address the difficulty of automatically extracting complex page layouts, narration elements (characters, places, events, objects) or stylistic elements (frame shapes, onomatopoeia, movement lines), by engaging with the passionate “crowd” of comic books readers. Previous research has identified expertise sharing, belonging to a community and helping with a research project as strong motivating factors for crowdsourcing participants [1]. In addition, our industrial partner will incentivize participants with product vouchers for their digital comics platform.

We aggregate the answers [2] taking into account the reliability of an annotator in a given context (task difficulty, task type, annotator expertise) and the agreement between annotators [3]. We generate a quality score for each annotation, with the best of them being selected and compiled into a ready-to-use ComicsML encoding [5].

References: