How to handle web archive versions?

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Abstract

The proposed paper will debate different ways of handling versions in a web archive collection. It will present the problem, followed by a discussion on how the existing literature tackles different ways of handling it. Finally, the different approaches will be tested and discussed against the IIPC COVID-19 web archival collection.

For various reasons a collection of archived web material may contain any given web page several times, and often from different points in time. It is an advantage when studying the diachronic development of a web page. It can become a problem when a researcher investigates the entire collection: many distant reading methods may release biased outputs if some web pages of the corpus have different versions, but not all or not along the same modalities. Therefore, in studies that investigate an entire collection researchers would prefer to have only one copy of each entity. Hence a fundamental question: which version of a webpage should they choose?

The answer to this question is even more complex, that there are two ways of being ‘the same’: copies – two web pages are identical in any respect – and versions – they share the same URL, but they have been archived at different points in time and they are not exactly identical (Brügger, 2018). This paper will focus on versions: as versions may come with varying degrees of being non-identical, from a single character having been changed to an entirely new web page with the same URL: versions emerge at the nexus of variation and temporality.

In the existing literature different approaches have been used to deal with versions: for instance, some have set a specific point in time as the yardstick against which copies or versions should be evaluated to support the choice of only one of each (Weltevrede, Helmond, 2012; Helmond, 2017; Fage-Butler et al., 2021), while others have focused on providing the most complete version (Brügger et al., 2020). The overall rule that is at stake here is one of balancing temporal consistency against completeness.

We will discuss and test several strategies to deal with versions against the IIPC Covid-19 corpus. That will allow us to evaluate different strategies in terms of balance between temporal consistency and completeness.

Literature

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