Visual-Meta Appendix Structure 1.1

October 2021

This document presents Visual-Meta 1.1

It is presented in the format of black text being the fields, grey text sample data and comments in red, as shown here:

organisation = {The Augmented Text Company}, **organisation adding this Visual-Meta**

There is an example with no comments after this, with correct sizes of the text.

To implement Visual-Meta, it should be appended at the end of a PDF document, starting on a new page, with all of the text in small font, such as 2 point, after the initial explanatory text, as indicated. This document has page breaks between the different sections for clarity. That is not necessary in production PDF.

Note: Be wary of fonts with ligatures since they will not necessarily match document text to Visual-Meta.

Designed by Frode Hegland with Jacob Hazelgrove, Vint Cerf, Ismail Serageldin, David De Roure, Pip Willcox, Mark Anderson, Jakob Voß, Christopher Gutteridge, Adam Wern, Peter Wasilko, Rafael Nepô, Adam Laidlaw, Günter Khyo, Gyuri Lajos & Stephan Kreutzer. University of Southampton: Dame Wendy Hall, Les Carr and David Millard. This system is open for anyone to use.

Visual-Meta Appendix **Example** **with comments in red**

Visual-Meta Appendix Heading in document standard heading size

Start with normal size font/same size as document body text:
The information in very small type below allows software to provide rich interactions with this document. See Visual-Meta.info for more information.

@{visual-meta-start}

@{visual-meta-header-start}

@visual-meta{ **header about this appended Visual-Meta**
version = {1.1}, **version of Visual-Meta**
generator = {Author 7.0.1 (1020)}, **producing software**
OR:
appended-by = {Reader}, **appending/reading software**
organisation = {The Augmented Text Company}, **organisation adding this Visual-Meta**
}

@this-document{ **header information about this document**
supersedes = {98765678}, **vm-id**
AND/OR:
supersedes = {Newer Insights 2021}, **title of document**
check_if_superceded = {webplace.com}, **RSS feed URL**
in-reply-to-id = {98765678}, **vm-id**
in-reply-to-email = {name@emailaddress.com}, **email address of original author if this document is a reply and that email address was provided. If more than 1, comma separate**
plaintext = {nameofdocument.txt}, **or .html**
plaintext = {http : // ipfs.io/ipfs /bafkreidwyzsvsbxwwy6mqlf4}
}

@{visual-meta-header-end}

@{document-type-start}

ispartof = {9876567833}, **vm-id or DOI of the the document this article is included**
ispartofstartpage = {45}, **page in document this document is a part where this inclusion starts**
language = {English}, **primary language of the text**
languagecode = {en}, **Language code ISO 639**
languagedirection = {ltr}, **Using the model on https://www.mediawiki.org/wiki/ Architecture_Repository/Systems/Data_models/Knowledge_store**
language = {English US},
license = {CC-BY-SA-3.0},
license name: {Creative Commons Attribution Share Alike 3.0 Unported},
licenseurl = {https://creativecommons.org/licenses/by-sa/3.0/}

@{document-type-end}

@{author-details-start}

@author{1 **this is the reference number/ID to this author which will be used elsewhere in Visual-Meta, including the headings, next author will be '2' and so on**
firstname = {Alessio},
middlename = {},
lastname = {Antonini}, **also called 'family name'**
prefix = {Von},
postfix = {the 3rd},
title = {Dr.},
alternative = {},
formerly = {},
acm_user_id = {98765},
orchid = {9087678},
internal_id = {1},
email = {email@example-address.com},
department = {English},
organisation = {University of Southampton},
homepage = {},
}

@{author-details-end}

@{references-start}

@book{ernstCassirer/AnEssayonM, **ID created by author name / document title**
author = {Ernst Cassirer},
title = {An Essay on Man},
year = {2021},
month = {5},
url = {http://play.google.com/books/reader?id=0BMsEAAAQBAJ},
isbn = {9780300254075, 0300254075},
publisher = {Yale University Press},
}

@misc{dougCEngelbart/Augmenting,
author = {Doug C Engelbart},
title = {Augmenting Human Intellect: A Conceptual Framework},
year = {1962},
url = {https://www.dougengelbart.org/content/view/138},
publisher = {SRI},
note = {SRI Summary Report AFOSR-3223 • Prepared for: Director of Information Sciences, Air Force Office of Scientific Research, Washington DC, },
pagecited = {55–59}, **Can also include the following optional addition to specify clearly what pages are being cited**
}

@{references-end}

@{document-headings-start}

@heading
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level = {1},
page = {18} **optional**

@heading{
name = {15.4 4. Citing from Your Literature Review},
level = {level2},
}
@heading{
name = {1.1 Overview}, level = {level2}, author = {1}, **refers to author number in the author section but can also simply be a name or names**
}

@{document-headings-end}

@{glossary-start

@entry{
name = {ACM},
description = {From Wikipedia: "The Association for Computing Machinery (ACM) is a US-based international learned society for computing. It was founded in 1947 and is the world's largest scientific and educational computing society." https://en.wikipedia.org/wiki/Association_for_Computing_Machinery ACM's 'Hypertext' Conference piloted Visual-Meta in 2021.},
cite = {13} **the transitory id/label from the citation in the References section if this glossary term has a citation included**
}
}

@entry{
name = {Ted Nelson},
alt-name1 = {Theodor Holm Nelson},
description = {coined the term 'hypertext'.},
}

@{glossary-end}

@{endnotes-start}

@entry{,
text = {}
}

@{endnotes-end}

@{custom-start}

Custom field in the format of category = value, using the BibTeX syntax

@{custom-end}

@{visual-meta-full-document-text-start}

Full text of the document.

@{visual-meta-full-document-text-end}

@{visual-meta-end}

Visual-Meta Appendix Example (no comments)

Visual-Meta Appendix

The information in very small type below allows software to provide rich interactions with this document. See Visual-Meta.info for more information.

This is what we call Visual-Meta. It is an approach to add information about a document to the document itself on the same level of the content. The same as would be necessary on a physically printed page, as opposed to a data layer, since this data layer can be lost and it makes it harder for a user to take advantage of this data. ¶ Important notes are primarily about the encoding of the author information to allow people to cite this document. When listing the names of the authors, they should be in the format 'last name', a comma, followed by 'first name' then 'middle name' whilst delimiting discrete authors with '{'and'}' between author names, like this: Shakespeare, William and Engelbart, Douglas C. ¶ Dates should be ISO 8601 compliant. ¶ The way reader software looks for Visual-Meta in a PDF is to parse it from the end of the document and look for @{visual-meta-end}. If this is found, the software then looks for @{visual-meta-start} and uses the data found between these marker tags. ¶ It is very important to make clear that Visual-Meta is an approach more than a specific format and that it is based on wrappers. Anyone can make a custom wrapper for custom metadata and append it by specifying what it contains. For example @dublin-core or @rdfs. ¶ This was written Summer 2021. More information is available from https://visual-meta.info or from emailing frode@hegland.com for as long as we can maintain these domains.

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@{visual-meta-header-start}
@visual-meta{
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generator = {Author 7.0.1 (1020)},
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in-reply-to-id = {urn-id},
in-reply-to-email = {name@email.com},
organisation = {The Augmented Text Company},
plaintext = {name of document.txt or .html}
plaintext = {http: // gfs.io/gfs itafkeidwyzsvsbxwsy6mqjhl}
}
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author = {Kitromili, Sofia and Jordan, James and Millard, David E.},
title = {What Authors Think about Hypertext Authoring},
year = {2020},
isbn = {9781450370981},
publisher = {Association for Computing Machinery},
address = {New York, NY, USA},
url = {https://doi.org/10.1145/3372923.3404798},
doi = {10.1145/3372923.3404798},
abstract = {Despite significant research into authoring tools for interactive narratives and a number of established authoring platforms,},
booktitle = {Proceedings of the 31st ACM Conference on Hypertext and Social Media},
numpages = {6},
keywords = {authors, digital interactive narratives, hypertext fiction, digital interactive storytelling, authoring tools, authoring, interactive fiction},
location = {Virtual Event, USA},
series = {HT '20},
vm-id = {doi10.1145/3372923.3404798}
@{visual-meta-bibtex-self-citation-end}

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ispartofstartpage = {67},
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languagecode = {Language code ISO 639},
languagedirection = {ltr},
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license name = {Creative Commons Attribution Share Alike 3.0 Unported},
licenseurl = {https://creativecommons.org/licenses/by-sa/3.0/}
@{document-type-end}

@{author-details-start}
@author{
firstname = {Alessio},
middlename = {},
lastname = {Antonini},
prefix = {Von},
postfix = {the 3rd},
title = {Dr},
alternative = {},
formerly = {},
acm_user_id = {9087878.},
orchid = {9087878.},
internal_id = {1},
email = {email@example-address.com},
department = {English},
organisation = {University of Southampton},
homepage = {},
}
@{author-details-end}

@{references-start}
@book{ernstCassirerAnEssayonM,
author = {Ernst Cassirer},
title = {An Essay on Man},
year = {2021},
month = {5},
url = {http://play.google.com/books/reader?id=08MsEAAAQBAJ},
isbn = {9780300254075, 0300254075},
publisher = {Yale University Press},
}
@misc{dougCEngelbartAugmenting,
author = {Doug C Engelbart},
title = {Augmenting Human Intellect: A Conceptual Framework },
year = {1962},
publisher = {SRI},
url = {https://www.dougengelbart.org/content/view/138},
note = {SRI Summary Report AFOSR-3223 • Prepared for: Director of Information Sciences, Air Force Office of Scientific Research, Washington DC, },
pagetext = {55-59},
}
@{references-end}

@{document-headings-start}
@heading{
name = {1 Introduction}, level = {level1},
}
@heading{
name = {1.1 Overview}, level = {level2}, author = {1}}
@{document-headings-end}

@{glossary-start}
@entry{
name = {ACM},
description = {From Wikipedia: "The Association for Computing Machinery (ACM) is a US-based international learned society for computing. It was founded in 1947 and is the world's largest scientific and educational computing society."
https://en.wikipedia.org/wiki/Association_for_Computing_Machinery ACM's 'Hypertext' Conference piloted Visual-Meta in 2021.},
}
@entry{
name = {Ted Nelson},
alt-name1 = {Theodor Holm Nelson},
description = {coined the term 'hypertext'.},
}
@{glossary-end}

@{endnotes-start}
@entry{
text = {}
}
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@{custom-start}
Custom field in the format of category = value, using the BibTeX syntax
@{custom-end}

@{visual-meta-full-document-text-start}
Full text of the document. Experimental
@{visual-meta-full-document-text-end}

@{visual-meta-end}