Body Talk User Studies

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Fig. 1. In the Clouds: Vancouver from Cypress Mountain. Note that the teaser may not be wider than the abstract block.

Abstract—OUR ABSTRACT.

Index Terms—Radiosity, global illumination, constant time

1 Introduction

Body talk introduction

1.1 Background

Background information goes here

2 USING THE STYLE TEMPLATE

- Note that each author needs to have a separate entry in author footer on the bottom-left corner of the first page, merging two people (even if from the same institution) is not permitted.
- The style uses the hyperref package, thus turns references into internal links. We thus recommend to make use of the "\autoref{reference}" call (instead of "Figure \ref{reference}" or similar) since "\autoref{reference}" turns the entire reference into an internal link, not just the number. Examples: Fig. 2 and Table 1.
- The style automatically looks for image files with the correct extension (eps for regular LATeX; pdf, png, and jpg for pdfLATeX), in a set of given subfolders (figures/, pictures/, images/). It is thus sufficient to use "\includegraphics{CypressView}" (instead of "\includegraphics{pictures/CypressView.jpg}").
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Manuscript received xx xxx. 201x; accepted xx xxx. 201x. Date of Publication xx xxx. 201x; date of current version xx xxx. 201x. For information on obtaining reprints of this article, please send e-mail to: reprints@ieee.org. Digital Object Identifier: xx.xxxx/TVCG.201x.xxxxxxx

• For adding hyperlinks and DOIs to the list of references, you can use "\bibliographystyle{abbrv-doi-hyperref-narrow}" (instead of "\bibliographystyle{abbrv}"). It uses the doi and url fields in a bibTEX entry and turns the entire reference into a link, giving priority to the doi. The doi can be entered with or without the "http://dx.doi.org/" url part. See the examples in the bibTEX file and the bibliography at the end of this template.

Note 1: occasionally (for some LATEX distributions) this hyper-linked bibTEX style may lead to compilation errors ("pdfendlink ended up in different nesting level ...") if a reference entry is broken across two pages (due to a bug in hyperref). In this case make sure you have the latest version of the hyperref package (i.e., update your LATEX installation/packages) or, alternatively, revert back to "\bibliographystyle{abbrv-doi-narrow}" (at the expense of removing hyperlinks from the bibliography) and try "\bibliographystyle{abbrv-doi-hyperref-narrow}" again after some more editing.

Note 2: the "-narrow" versions of the bibliography style use the font "PTSansNarrow-TLF" for typesetting the DOIs in a compact way. This font needs to be available on your LATEX system. It is part of the "paratype" package, and many distributions (such as MikTeX) have it automatically installed. If you do not have this package yet and want to use a "-narrow" bibliography style then use your LATEX system's package installer to add it. If this is not possible you can also revert to the respective bibliography styles without the "-narrow" in the file name.

DVI-based processes to compile the template apparently cannot handle the different font so, by default, the template file uses the abbrv-doi bibliography style but the compiled PDF shows you the effect of the abbrv-doi-hyperref-narrow style.

3 BIBLIOGRAPHY INSTRUCTIONS

- Sort all bibliographic entries alphabetically but the last name of the first author. This LATEX/bibTEX template takes care of this sorting automatically.
- Merge multiple references into one; e. g., use [?,?] (not [?] [?]).
 Within each set of multiple references, the references should be sorted in ascending order. This LATEX/bibTEX template takes care of both the merging and the sorting automatically.
- Verify all data obtained from digital libraries, even ACM's DL and IEEE Xplore etc. are sometimes wrong or incomplete.
- Do not trust bibliographic data from other services such as Mendeley.com, Google Scholar, or similar; these are even more likely to be incorrect or incomplete.
- Articles in journal—items to include:
 - author names
 - title
 - journal name
 - year
 - volume
 - number
 - month of publication as variable name (i. e., {jan} for January, etc.; month ranges using {jan #{/}# feb} or {jan #{--}# feb})
- use journal names in proper style: correct: "IEEE Transactions on Visualization and Computer Graphics", incorrect: "Visualization and Computer Graphics, IEEE Transactions on"
- · Papers in proceedings—items to include:
 - author names
 - title
 - abbreviated proceedings name: e.g., "Proc.\
 CONF_ACRONYNM" without the year; example: "Proc.\ CHI", "Proc.\ 3DUI", "Proc.\ Eurographics", "Proc.\ EuroVis"
 - year
 - publisher
 - town with country of publisher (the town can be abbreviated for well-known towns such as New York or Berlin)
- article/paper title convention: refrain from using curly brackets, except for acronyms/proper names/words following dashes/question marks etc.; example:
 - paper "Marching Cubes: A High Resolution 3D Surface Construction Algorithm"
 - should be entered as "{M}arching {C}ubes: A High Resolution {3D} Surface Construction Algorithm" or "{M}arching {C}ubes: A high resolution {3D} surface construction algorithm"
 - will be typeset as "Marching Cubes: A high resolution 3D surface construction algorithm"
- for all entries
 - DOI can be entered in the DOI field as plain DOI number or as DOI url; alternative: a url in the URL field
 - provide full page ranges AA--BB
- when citing references, do not use the reference as a sentence object; e.g., wrong: "In [?] the authors describe ...", correct: "Lorensen and Cline [?] describe ..."

4 RELATED WORK

5 ALGORITHM

6 RESULTS

Data was gathered from the user studies to determine whether Body Talk would be viable in other applications. All 7 Oregon State University students who took part in these user studies were able to make models they felt accurately depicted their body shape. On a 1 to 5 scale, the average student gave their generated model a 4 on how closely the model resembled them. These results show that Body Talk could indeed be useful in generating realistic body types from words (students used sliders for each word in the interface).

However, aside from these impressive stats, the students gave the word descriptions generated from their models a 3.6 out of 5 on whether they believed the words described their body types accurately. This score is okay but not great like the previous score. This is no surprise because Body Talk generated around 6 - 16 words for different models. With that many body type descriptions generated, there is bound to by some words that a students just wont agree with. Rightfully so, some of the word traits would probably not match their body types at all. Aside from Body Talk generating inaccurate body type word descriptions, it also generated very accurate ones as well. This would result in a higher score for this test. But just because a student gives a high score, it doesn't mean that it is accurate data. For example, a student may get a "fit" word description generated by body talk based off the model the student made of themselves. Even if the person really isn't fit, the student may like to see this trait anyways. Because the program gave them a positive trait, they will give the test a higher score resulting in inaccurate data. The same thing can happen the other way around. A student may find a bad trait that may be true but they don't like, so they give the test a lower score than it should be. All these factors most likely played a factor in the user tests which led to a passable average

7 FUTURE WORK

Can include improvements to user studies (ex. set time, more participants, more generated models, more tests)

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Table 1. VIS/VisWeek accepted/presented papers: 1990-2015.

year	Vis/SciVis	SciVis conf	InfoVis	VAST	VAST conf	TVCG @ VIS	CG&A @ VIS	VIS/VisWeek incl. TVCG/CG&A	VIS/VisWeek w/o TVCG/CG&A
2015	33	9	38	33	14	17	15	159	127
2014	34		45	33	21	20		153	133
2013	31		38	32		20		121	101
2012	42		44	30		23		139	116
2011	49		44	26		20		139	119
2010	48		35	26				109	109
2009	54		37	26				117	117
2008	50		28	21				99	99
2007	56		27	24				107	107
2006	63		24	26				113	113
2005	88		31					119	119
2004	70		27					97	97
2003	74		29					103	103
2002	78		23					101	101
2001	74		22					96	96
2000	73		20					93	93
1999	69		19					88	88
1998	72		18					90	90
1997	72		16					88	88
1996	65		12					77	77
1995	56		18					74	74
1994	53							53	53
1993	55							55	55
1992	53							53	53
1991	50							50	50
1990	53							53	53
sum	1515	9	595	277	35	100	15	2546	2431

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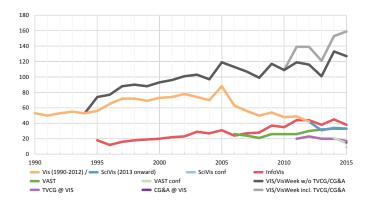


Fig. 2. A visualization of the data from Table 1. The image is from [?] and is in the public domain.

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8 CONCLUSION

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ACKNOWLEDGMENTS

The authors wish to thank A, B, C. This work was supported in part by a grant from XYZ.

¹The algorithm behind Marching Cubes [?] had already been described by Wyvill et al. [?] a year earlier.

²Footnotes appear at the bottom of the column.