

Allowing Responsive Web Modules

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ABSTRACT

UPDATED—September 12, 2015. This sample paper describes the formatting requirements for SIGCHI conference proceedings, and offers recommendations on writing for the worldwide SIGCHI readership. Please review this document even if you have submitted to SIGCHI conferences before, as some format details have changed relative to previous years. Abstracts should be about 150 words and are required.

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ACM Classification Keywords

H.5.m. Information Interfaces and Presentation (e.g. HCI): Miscellaneous; See <http://acm.org/about/class/1998/> for the full list of ACM classifiers. This section is required.

INTRODUCTION

- Why modules? Reusability (even across applications), reduced code complexity.
- Why responsive design?
- Responsive Modules of today need to be context aware (thus, not very reusable [they only work in a specific layout]).
- What do we want and why? Modules that are responsive relative to its outer frame.

EXAMPLES OF BROKEN RWD TODAY

- MQ is not the solution to RWD. ($MQ- > RWD$. $RWD!- > MQ$)
- All elements adapt their inner design by the viewport width.
- Menu Example shows how MQ are broken.
- Limitations of MQ regarding font-size (em).

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A SOLUTION

- Parents should decide the layout of their children, and the children should adapt their inner design accordingly.
- Valid language syntaxes (HTML, CSS, JS).

WHY IS A NATIVE IMPLEMENTATION TROUBLESOME?

- Performance issues.
- Cite Tab Atkins of RICG (he states that it is infeasible to standardize this).

A JAVASCRIPT IMPLEMENTATION

- Why is this pragmatic? Compatability, no impact (performance, language) on apps that do not need responsive modules.
- Satisfies the requirements for a solution given above.
- Present Elq's API.
- Present the performance.
- Note drawbacks (but only drawbacks for added functionality!).

DISCUSSION AND SUMMARY OF RELATED WORK

- Performance, APIs, Features.
- The mirror functionality of Elq makes it uniquely suitable for nested modules.

CONCLUSION

- Production ready.
- Probably no standard (or not in a long time).

ACKNOWLEDGMENTS

Sample text: We thank all the volunteers, and all publications support and staff, who wrote and provided helpful comments on previous versions of this document. Authors 1, 2, and 3 gratefully acknowledge the grant from NSF (#1234–2012–ABC). *This whole paragraph is just an example.*

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