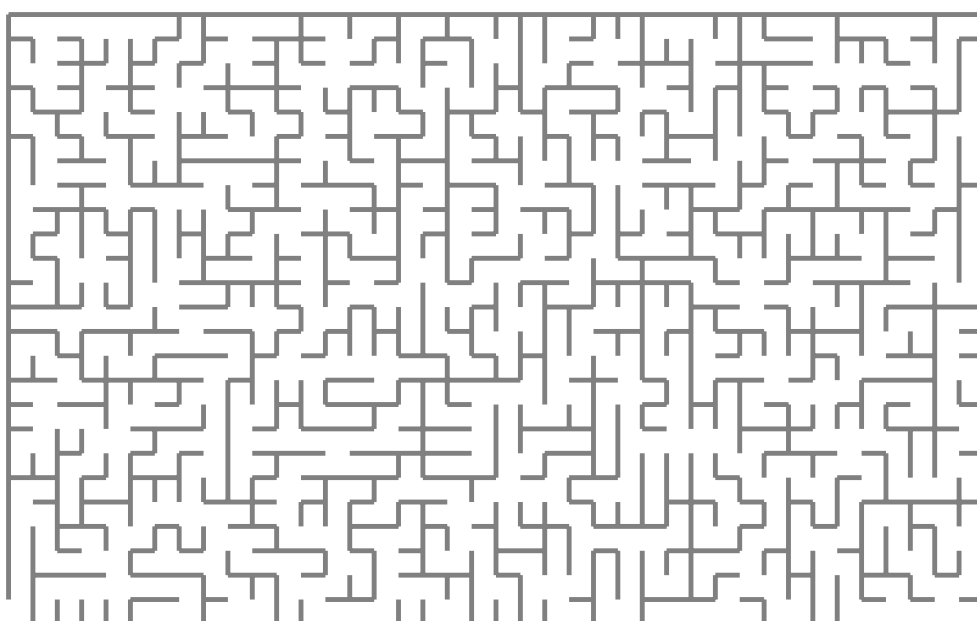


# Formalizing WebDSL with Statix

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*Version of January 7, 2021*



Max Machiel de Krieger



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# Formalizing WebDSL with Statix

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THESIS

submitted in partial fulfillment of the  
requirements for the degree of

MASTER OF SCIENCE

in

COMPUTER SCIENCE

by

Max Machiel de Krieger  
born in Delft, the Netherlands



Programming Languages Group  
Department of Software Technology  
Faculty EEMCS, Delft University of Technology  
Delft, the Netherlands  
[www.ewi.tudelft.nl](http://www.ewi.tudelft.nl)

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Cover picture: Random maze.

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# Formalizing WebDSL with Statix

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Author: Max Machiel de Krieger  
Student id: 4705483  
Email: M.M.deKrieger@student.tudelft.nl

## Abstract

WebDSL is a domain-specific language for web programming that is being used for over ten years. As web applications evolved over the past decade, so did WebDSL. A complete formal specification of WebDSL has been *\*TO-DO: check if missing or not updated\** since its original development. With the introduction of Statix in the Spoofax language workbench, a declarative language that generates a typechecker, we made an elegant and practical formal semantics for WebDSL.

## Thesis Committee:

Chair:	Prof. dr. E. Visser, Faculty EEMCS, TU Delft
Committee Member:	Dr. A. Katsifodimos, Faculty EEMCS, TU Delft
University Supervisor:	Ir. D. M. Groenewegen, Faculty EEMCS, TU Delft
Expert:	Ir. A. Zwaan, Faculty EEMCS, TU Delft



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# Preface

Preface here.

Max Machiel de Krieger  
Delft, the Netherlands  
January 7, 2021





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# Chapter 1

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## Introduction

Introduction here. (Sústrik 2012)





## Chapter 2

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## Evaluation

Evaluation here.



## Chapter 3

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### Related work

Related work here.



## Chapter 4

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## Conclusion

Conclusion here.



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# Bibliography

Sústrik, Martin (2012). *ZeroMQ*. URL: <http://aosabook.org/en/zeromq.html> (visited on 02/16/2018).





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# Acronyms

**AST** abstract syntax tree

**DSL** domain-specific language



# Appendix A

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**A**

Appendix here.