A C++ Sample Book

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A C++ Sample Book

A Sample Subtitle of the Sample Book

John Lakos

Joshua Berne

Addison-Wesley

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This is John's dedication to Josh for being so great and
writing this book so well.
JL

This is Josh's dedication to his wife, child,
and mother-in-law for being all supportive and
wonderful. And to steak. Steak is great.
JMB

Contents

Foreword ix

Preface xi

Acknowledgements xiii

About the Authors xv

Part I Part Number One 1

Chapter 1 Chapter Number One 2
1.1 A section 2
1.2 Another section 2

Chapter 2 Chapter Number Two 3
2.1 A section 3
2.2 Another section 3

Part II Part Number Two 4

Chapter 3 Chapter Number Three 5
3.1 A section 5
3.2 Another section 5

Chapter 4 Chapter Number Four 6
4.1 A section 6
4.2 Another section 6

Bibliography 7

Chapter A Appendixical Stuff 9

Chapter B Didn't My Appendix Get Removed? 10

Foreword

The text of the foreword will go here.

Preface

The text of the preface will go here. All the elements and commands offered within the text will work here as well.

Acknowledgements

The text of the author's acknowledgements will go here.

About the Authors

Joshua Berne serves at Bloomberg LP as a senior software engineer on Bloomberg's core library team. After the difficult choice to pursue a career in software engineering over research mathematics, he has been an active programmer in the financial industry, writing day trading applications in C++ for E*TRADE Capital Markets and, after that, architecting large distributed trading systems in Java for Instinet and IDC. Since joining Bloomberg in 2017, he has been an active participant in the C++ Standards Committee, seeking to bring the advancements made within Bloomberg to the C++ Standard and thus to the rest of the world.

Part I

Part Number One

This is the description of part number one.

Chapter 1

Chapter Number One

This will be chapter one.
This is some code that is typeset inline `void foo() {return;}`
The header would contain

```
void foo();
```

The implementation file would contain

```
void foo() {
  return;                                                    // RETURN
}
```

1.1 A section

Here's a section.

1.2 Another section

Here's another section.

Chapter 2

Chapter Number Two

This will be chapter two. Some WG21 papers that i've written are [1], [2], [3], [4], [5], [6], [7], [8], [9], [10], [11], [12], [13], [14], [15], [16], [17], [18], and [19].

2.1 A section

Here's a section.

2.2 Another section

Here's another section.

Part II

Part Number Two

Chapter 3

Chapter Number Three

This will be chapter three.

3.1 A section

Here's a section.

3.2 Another section

Here's another section.

Chapter 4

Chapter Number Four

This will be chapter four.

4.1 A section

Here's a section.

4.2 Another section

Here's another section.

Bibliography

[1] Joshua Berne, Nathan Burgers, Hyman Rosen, John Lakos, "Contract checking in c++: A (long-term) road map," Tech. Rep. P1332R0, WG21 - The C++ Standards Committee, 2018.

[2] Joshua Berne, John Lakos, "Assigning concrete semantics to contract-checking levels at compile time," Tech. Rep. P1333R0, WG21 - The C++ Standards Committee, 2018.

[3] Joshua Berne, John Lakos, "Specifying concrete semantics directly in contract-checking statements," Tech. Rep. P1334R0, WG21 - The C++ Standards Committee, 2018.

[4] Joshua Berne, John Lakos, "Contracts that work," Tech. Rep. P1429R0, WG21 - The C++ Standards Committee, 2019.

[5] Joshua Berne, John Lakos, "Contracts that work," Tech. Rep. P1429R1, WG21 - The C++ Standards Committee, 2019.

[6] Joshua Berne, "Requirements for contract roles," Tech. Rep. P1606R0, WG21 - The C++ Standards Committee, 2019.

[7] Joshua Berne, Jeff Snyder, "Minimizing contracts," Tech. Rep. P1607R0, WG21 - The C++ Standards Committee, 2019.

[8] Joshua Berne, John Lakos, "Contracts that work," Tech. Rep. P1429R2, WG21 - The C++ Standards Committee, 2019.

[9] Joshua Berne, Alisdair Meredith, "Side effects of checked contracts and predicate elision," Tech. Rep. P1670R0, WG21 - The C++ Standards Committee, 2019.

[10] Joshua Berne, Alisdair Meredith, "Contract evaluation in constant expressions," Tech. Rep. P1671R0, WG21 - The C++ Standards Committee, 2019.

[11] Joshua Berne, ""axiom" is a false friend," Tech. Rep. P1672R0, WG21 - The C++ Standards Committee, 2019.

[12] Andrzej Krzemieński, Joshua Berne, "Undefined functions in axiom-level contract statements," Tech. Rep. P1704R0, WG21 - The C++ Standards Committee, 2019.

[13] Joshua Berne, John Lakos, "Contracts that work," Tech. Rep. P1429R3, WG21 - The C++ Standards Committee, 2019.

[14] Joshua Berne, Jeff Snyder, Ryan McDougall, "Minimizing contracts," Tech. Rep. P1607R1, WG21 - The C++ Standards Committee, 2019.

[15] Joshua Berne, "An overview of contracts papers for cologne," Tech. Rep. P1807R0, WG21 - The C++ Standards Committee, 2019.

[16] Joshua Berne, Andrzej Krzemienski, Ryan McDougall, Timur Doumler, Herb Sutter, "Contracts - use cases," Tech. Rep. P1995R0, WG21 - The C++ Standards Committee, 2019.

[17] Joshua Berne, Andrzej Krzemienski, Ryan McDougall, Timur Doumler, Herb Sutter, "Contracts - use cases," Tech. Rep. P1995R1, WG21 - The C++ Standards Committee, 2020.

[18] Joshua Berne, "Contracts - what came before," Tech. Rep. P2032R0, WG21 - The C++ Standards Committee, 2020.

[19] Joshua Berne, Ryan McDougall, Andrzej Krzemieński, "Minimial contract use cases," Tech. Rep. P2114R0, WG21 - The C++ Standards Committee, 2020.

Appendix A

Appendixical Stuff

Appendix B

Didn't My Appendix Get Removed?