

# *A C++ Sample Book*

This is simply a placeholder. Your production team will replace this page with the real series page.

# *A C++ Sample Book*

0.0. Identify if we do  
want a subtitle

## *A Sample Subtitle of the Sample Book*

*John Lakos*  
*Joshua Berne*

◆◆Addison-Wesley

0.0. PH or AW?

Boston • Columbus • Indianapolis • New York • San Francisco • Amsterdam • Cape Town  
Dubai • London • Madrid • Milan • Munich • Paris • Montreal • Toronto • Delhi • Mexico City  
Sao Paulo • Sidney • Hong Kong • Seoul • Singapore • Taipei • Tokyo

Many of the designations used by manufacturers and sellers to distinguish their products are claimed as trademarks. Where those designations appear in this book, and the publisher was aware of a trademark claim, the designations have been printed with initial capital letters or in all capitals.

The authors and publisher have taken care in the preparation of this book, but make no expressed or implied warranty of any kind and assume no responsibility for errors or omissions. No liability is assumed for incidental or consequential damages in connection with or arising out of the use of the information or programs contained herein.

For information about buying this title in bulk quantities, or for special sales opportunities (which may include electronic versions; custom cover designs; and content particular to your business, training goals, marketing focus, or branding interests), please contact our corporate sales department at [corpsales@pearsoned.com](mailto:corpsales@pearsoned.com) or (800) 382-3419.

For government sales inquiries, please contact [governmentsales@pearsoned.com](mailto:governmentsales@pearsoned.com).

For questions about sales outside the United States, please contact [international@pearsoned.com](mailto:international@pearsoned.com).

Visit us on the Web: [informit.com/aw](http://informit.com/aw)

*Library of Congress Cataloging-in-Publication Data*

**LIBRARY OF CONGRESS CIP DATA WILL GO HERE; MUST BE ALIGNED AS INDICATED BY LOC**

Copyright © 2016 Pearson Education, Inc.

All rights reserved. Printed in the United States of America. This publication is protected by copyright, and permission must be obtained from the publisher prior to any prohibited reproduction, storage in a retrieval system, or transmission in any form or by any means, electronic, mechanical, photocopying, recording, or likewise. For information regarding permissions, request forms and the appropriate contacts within the Pearson Education Global Rights & Permissions Department, please visit [www.pearsoned.com/permissions/](http://www.pearsoned.com/permissions/).

ISBN-13: NUMBER HERE

ISBN-10: NUMBER HERE

Text printed in the United States on recycled paper at PRINTER INFO HERE.

First printing, MONTH YEAR

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

<b>Foreword</b>	<b>ix</b>
<b>Preface</b>	<b>xi</b>
<b>Acknowledgements</b>	<b>xiii</b>
<b>About the Authors</b>	<b>xv</b>
<b>Part I   Part Number One</b>	<b>1</b>
<b>Chapter 1   Chapter Number One</b>	<b>2</b>
1.1   A section	2
1.2   Another section	2
<b>Chapter 2   Chapter Number Two</b>	<b>3</b>
2.1   A section	3
2.2   Another section	3
<b>Part II   Part Number Two</b>	<b>4</b>
<b>Chapter 3   Chapter Number Three</b>	<b>5</b>
3.1   A section	5
3.2   Another section	5
<b>Chapter 4   Chapter Number Four</b>	<b>6</b>
4.1   A section	6
4.2   Another section	6
<b>Bibliography</b>	<b>7</b>
<b>Chapter A   Appendixal Stuff</b>	<b>9</b>
<b>Chapter B   Didn't My Appendix Get Removed?</b>	<b>10</b>
	vii

viii

Contents

**Todo list**

**11**



# 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.



Author  
Photo  
here





---

# Part I

## Part Number One

---

This is the description of part number one.

0.0. Write more  
about 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(); // this is a comment
```

```
/*  
This is a multi-line comment.  
*/
```

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.

3.2. Write more in  
this 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 Krzemiński, 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 Krzemiński, Ryan McDougall, Timur Doumler, Herb Sutter, “Contracts - use cases,” Tech. Rep. P1995R0, WG21 - The C++ Standards Committee, 2019.
- [17] Joshua Berne, Andrzej Krzemiński, 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 Krzemiński, “Minimal contract use cases,” Tech. Rep. P2114R0, WG21 - The C++ Standards Committee, 2020.



# Appendix A

## Appendixal Stuff

---

# Appendix B

## Didn't My Appendix Get Removed?

---

# Todo list

---

0.0. Identify if we do want a subtitle . . . . .	iii
0.0. PH or AW? . . . . .	iii
0.0. Write more about part number one . . . . .	1
3.2. Write more in this section . . . . .	5