Professional Clojure

Description: Professional guide to functional programming with Clojure

A modern dialect of Lisp, designed for concurrency and Java compatibility, Clojure offers the solutions many developers are seeking. Clojure's versatility and functionality are drawing more and more attention among enterprise-level developers, especially those looking to streamline their workflow with a step away from imperative programming. This book offers complete reference for the professional, with clear instruction and practical perspective on using Clojure in a real-world setting. Functional programming fundamentals are followed by Clojure-specific guidance, with insight from expert Clojure contributors. As the demand for experienced Clojure developers continues to grow, this guide provides the essential reference professionals need to get up to speed quickly.

Professional Clojure:

- Explores the gap between functional and object-oriented programming, and how Clojure provides a solution for that space
- Describes the read-eval-print loop workflow used in declarative programming for fast feedback loops
- Demonstrates the use of ClojureScript in the design and development of reactive web pages
- Explains Clojure's features, performance, capabilities, and the versatile compatibility that makes it an essential language
- Covers web services, testing, the datomic database, and much more for a complete professional reference and tutorial
- Provides practical insight on real-world applications from expert programmers and Clojure contributors

Wrox Professional guides are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job.

Contents:

INTRODUCTION xv

CHAPTER 1: HAVE A BEGINNER'S MIND 1
- Functional Thinking 2
- Value Oriented 2
- Thinking Recursively 5
- Higher Order Functions 8
- Embracing Laziness 11
- When You Really Do Need to Mutate 12
- Nil Punning 15
- The Functional Web 16
- Doing Object-Oriented Better 16
- Polymorphic Dispatch with defmulti 18
- Defining Types with deftype and defrecord 20
Getting Fast Feedback with Figwheel 132
Creating Components 134
Modeling the Data 135
Responding to Events and Handling State Change 136
Understanding Errors and Warnings 137
Namespace Layout 141
Styling 141
Form Inputs and Form Handling 142
Navigation and Routes 145
HTTP Calls: Talking to a Server 147
Drag and Drop 149
Publishing 150
Reagent in Depth 151
Form 1: A Function That Returns a Vector 151
Form 2: A Function That Returns a Component 152
Form 3: A Function That Returns a Class 153
Sequences and Keys 154
Custom Markup 155
Reactions 156
A Note on Style 158
Testing Components with Devcards 159
Interop with JavaScript 162
One Language, One Idiom, Many Platforms 164
Things to Know About the Closure Compiler and Library 164
Modeling State with DataScript 165
Go Routines in Your Browser with core.async 166
Summary 167
CHAPTER 6: THE DATOMIC DATABASE 169
Datatomic Basics 170
Why Datatomic? 170
The Datatomic Data Model 172
Querying 175
Ordering: Order Online - http://www.researchandmarkets.com/reports/3609886/
Order by Fax - using the form below
Order by Post - print the order form below and send to
Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit [http://www.researchandmarkets.com/contact/](http://www.researchandmarkets.com/contact/)

**Order Information**
Please verify that the product information is correct.

- **Product Name:** Professional Clojure
- **Web Address:** [http://www.researchandmarkets.com/reports/3609886/](http://www.researchandmarkets.com/reports/3609886/)
- **Office Code:** SCBRIQ8N

**Product Format**
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Copy (Paper back):</td>
</tr>
<tr>
<td>USD 98 + USD 29 Shipping/Handling</td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.

---

**Contact Information**
Please enter all the information below in **BLOCK CAPITALS**

- **Title:** [ ] Mr  [ ] Mrs  [ ] Dr  [ ] Miss  [ ] Ms  [ ] Prof
- **First Name:** ____________________________  **Last Name:** ____________________________
- **Email Address:** * ____________________________
- **Job Title:** ____________________________
- **Organisation:** ____________________________
- **Address:** ____________________________
- **City:** ____________________________
- **Postal / Zip Code:** ____________________________
- **Country:** ____________________________
- **Phone Number:** ____________________________
- **Fax Number:** ____________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

<table>
<thead>
<tr>
<th>Account number</th>
<th>833 130 83</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sort code</td>
<td>98-53-30</td>
</tr>
<tr>
<td>Swift code</td>
<td>ULSBIE2D</td>
</tr>
<tr>
<td>IBAN number</td>
<td>IE78ULSB98533083313083</td>
</tr>
</tbody>
</table>
| Bank Address   | Ulster Bank,
                 27-35 Main Street,
                 Blackrock,
                 Co. Dublin,
                 Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World