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*Principles*

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*1 \ "Uncle\ " Bob*

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*Martin – "The  
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pattern, you'll

learn the key

skills you need

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languages (DSLs)

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implementation

by breaking it

down into the

most common

design patterns.

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learn the key

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is understanding

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implementations.

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Patterns

identifies and

condenses the

most common

design patterns,

providing sample

implementations

of each. The

pattern

implementations

use Java, but

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the patterns

themselves are  
completely

general. Some of

the

implementations

use the well-  
known ANTLR

parser

generator, so

readers will  
find this book

an excellent

source of ANTLR



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# Language

examples as

well. But this

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benefit anyone

interested in

implementing

languages,

regardless of

their tool of

choice. Other

language

implementation

books focus on

compilers, which

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in your daily

life. Instead,

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Patterns shows

you patterns you

can use for all

kinds of

language

applications.

You'll learn to

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source  
analyzers, and

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interpreters.

Each chapter

languages

groups related  
design patterns

Pragmatic

and, in each

Programmers

pattern, you'll

get hands-on

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experience by

building a

complete sample

implementation.

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finish the book,

you'll know how

to solve most

common language

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problems.

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covers such

topics as data

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analyzers.

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about The

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about this book

is that it's

great for  
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keeping the  
programming  
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process fresh.  
Languages

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you to continue  
Programmers

to grow and

clearly comes

from people who

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there.” –Kent  
Beck, author of  
Extreme

Programming

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Embrace Change

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book to be a

great mix of  
solid advice and  
wonderful

analogies!”

–Martin Fowler,

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all my

colleagues to

run out and grab

a copy. This is

a book I would

never loan

because I would

worry about it



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being lost.”

—Kevin Ruland,  
Management  
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wisdom and  
practical  
experience of

the authors is  
obvious. The

topics presented  
are relevant and

useful.... By

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explanation of

the need for

orthogonality,

especially in a

crisis

situation. I

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have little

doubt that this

book will

eventually

become an

excellent source

of useful

information for

journeymen

programmers and

expert mentors

alike.” —John

Lakos, author of

Large-Scale C++

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Implementation Design

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sort of book I  
will buy a dozen

copies of when

it comes out so

I can give it to  
my clients.”

—Eric Vought,

Software

Engineer “Most

modern books on

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development fail

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to cover the

basics of what

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makes a great

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software

developer,

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Languages

technology where

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in reality the

greatest

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leverage

possible for any

software team is

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really know

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their craft

well. An

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excellent book.”

Programming  
—Pete McBreen,

Independent  
Languages

Consultant  
Pragmatic

“Since reading  
Programmers

this book, I

have implemented

many of the

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practical

suggestions and

tips it

contains. Across

the board, they

have saved my

company time and

money while

helping me get

my job done

quicker! This

should be a

desktop

reference for

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everyone who  
works with code  
for a living.”

—Jared

Richardson,

Senior Software  
Developer,

iRenaissance,

Inc. “I would

like to see this  
issued to every  
new employee at  
my company....”

—Chris Cleeland,

*Page 72/134*



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Language

Senior Software  
Engineer, Object  
Computing, Inc.

“If I’m putting  
together a specific  
project, it’s  
the authors of  
this book that I  
want. . . . And  
failing that I’d  
settle for  
people who’ve  
read their  
book.” —Ward

*Page 73/134*

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Language

Cunningham

Straight from  
the programming  
trenches, The

Pragmatic

Programmer cuts  
through the  
increasing

specialization

and  
technicalities  
of modern

software

development to

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# Language

examine the core

process--taking

a requirement

and producing

working, **Specific**

maintainable

code that

delights its

users. It covers

topics ranging

from personal

responsibility

and career

development to

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architectural

techniques for

keeping your

code flexible

and easy to

adapt and reuse.

Read this book,

and you'll learn

how to Fight

software rot;

Avoid the trap

of duplicating

knowledge; Write

flexible,

*Page 76/134*

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dynamic, and

adaptable code;

Avoid

programming by

coincidence;

Bullet-proof

your code with

contracts,

assertions, and

exceptions;

Capture real

requirements;

Test ruthlessly

and effectively;

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Delight your

users; Build

teams of

pragmatic

programmers; and

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developments

more precise

with automation.

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series of self-

contained

sections and

filled with

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best practices

and major

pitfalls of many

different

aspects of

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responsible for

software  
projects, use

these lessons  
daily, and

you'll quickly  
see improvements



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productivity,

accuracy, and

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satisfaction.

You'll learn

skills and

develop habits

and attitudes

that form the

foundation for

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success in your

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Your Own

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Kent Beck

Presents a

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Infinitely

Useful for

Everyday

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Great code

*Page 82/134*

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Language

doesn't just

function: it

clearly and

consistently

communicates

your intentions,

allowing other

programmers to

understand your

code, rely on

it, and modify

it with

confidence. But

great code

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Implementation

doesn't just  
happen. It is  
the outcome of  
hundreds of

small but Specific

critical  
decisions

And General  
programmers make

Programming  
every single

Languages  
day. Now,

Pragmatic  
legendary  
software

Programmers  
innovator Kent

Beck—known

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worldwide for  
creating Extreme  
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Programming and  
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pioneering

software Specific

patterns and  
And General  
test-driven deve  
Programming  
lopment-focuses

on these  
Languages

critical  
Pragmatic  
decisions,  
Programmers  
unearthing

powerful

“implementation

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Language

patterns” for  
writing programs  
that are  
simpler,

clearer, better  
organized, and  
more cost  
effective. Beck

collects 77  
patterns for  
handling  
everyday

programming  
tasks and

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# Language

writing more  
readable code.

This new  
collection of

patterns **Specific**

addresses many  
aspects of  
development,

including class,  
state, behavior,  
method,

collections,  
frameworks, and

more. He uses

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# Language

diagrams,

stories,

examples, and

essays to engage

the reader as he

illuminates the

patterns. You'll

find proven

solutions for

handling

everything from

naming variables

to checking

exceptions.



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Programmers run into parsing problems all the time. Whether it's a data format like JSON, a network protocol like SMTP, a server configuration file for Apache, a PostScript/PDF file, or a

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simple implementation

spreadsheet Patterns Create

macro

Your Own language--ANTLR

v4 and this book

will demystify

the process.

ANTLR v4 has

been rewritten

from scratch to

make it easier

than ever to

build parsers

and the language

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rewritten new

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you how to take

advantage of

these new

features. Build

your own

languages with

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# Language

ANTLR v4, using

ANTLR's new

advanced parsing

technology. In

this book,

you'll learn how

ANTLR

automatically

builds a data

structure

representing the

input (parse

tree) and

generates code

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# Language

Implementation

that can walk

the tree

(visitor). You

can use that

combination to

implement data

readers,

language

interpreters,

and translators.

You'll start by

learning how to

identify grammar

patterns in

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Language

language

reference

manuals and then

slowly start

building Specific

increasingly

complex

grammars. Next,

you'll build

applications

based upon those

grammars by

walking the

automatically

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# Language

# Implementation

generated parse

trees. Then

you'll tackle

# Patterns Create

some nasty

language

problems by

parsing files

containing more

than one

language (such

as XML, Java,

and Javadoc).

You'll also see

how to take

# Read Free

# Language

absolute control

over parsing by

embedding Java

actions into the

grammar. You'll

learn directly

from well-known

parsing expert

Terence Parr,

the ANTLR

creator and

project lead.

You'll master

ANTLR grammar



Read Free

Language

Construction and

learn how to

build language

tools using the

built-in parse

tree visitor

mechanism. The

book teaches

using real-world

examples and

shows you how to

use ANTLR to

build such

things as a data

Read Free

Language

file reader, a

JSON to XML

translator, an R

parser, and a

Java

class->interface

extractor. This

book is your

ticket to

becoming a

parsing guru!

What You Need:

ANTLR 4.0 and

above. Java

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Language

development

tools. Ant build  
system

optional (needed  
for building

ANTLR from  
source)

Your success—and  
sanity—are

closer at hand  
when you work at

a higher level  
of abstraction,

# Read Free

# Language

allowing your  
attention to be  
on the business  
problem rather  
than the details  
of the  
programming  
platform. Domain  
Specific Languages—  
"little  
languages"  
implemented on  
top of  
conventional

Read Free

Language

Implementation

languages—give

you a way to do

this because

they model the

domain of your

business

problem. DSLs in

Action

introduces the

concepts and

definitions a

developer needs

to build high-

# Read Free

# Language

quality domain

specific

languages. It

provides a solid

foundation to

the usage as

well as

implementation

aspects of a

DSL, focusing on

the necessity of

applications

speaking the

language of the

# Read Free

# Language

domain. After

reading this

book, a

programmer will

be able to

design APIs that

make better

domain models.

For experienced

developers, the

book addresses

the intricacies

of domain

language design

Read Free

Language

without the pain  
of writing  
parsers by hand.

The book

discusses DSL

usage and  
implementations  
in the real

world based on a

suite of JVM  
languages like  
Java, Ruby,

Scala, and

Groovy. It



Read Free

Language

contains code

snippets that  
implement real  
world DSL

designs and

discusses the  
pros and cons of  
each

implementation.

Purchase of the  
print book comes  
with an offer of

a free PDF,  
ePub, and Kindle

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Language

eBook from

Manning. Also

available is all

code from the

book. What's

Inside Tested,

real-world

examples How to

find the right

level of

abstraction

Using language

features to

build internal

Read Free

Language

DSLs Designing p  
arser/combinator-  
based little  
languages

Domain Specific

When carefully  
selected and  
used, Domain-

Specific

Languages (DSLs)  
may simplify  
complex code,

promote

effective

Read Free

Language

Implementation

with customers,  
Patterns Create  
improve

Your Own  
productivity,

Domain Specific

development

And General  
bottlenecks. In

Programming  
Domain-Specific

Languages,

Pragmatic  
noted software

development

Programmers  
expert Martin

Fowler first

provides the

Read Free

Language

Implementation

software

Patterns Create

professionals

Your Own

need to decide

Domain Specific

if and when to

utilize DSLs.

And General

Then, where DSLs

prove suitable,

Programming

Fowler presents

effective

Pragmatic

techniques for

building them,

Programmers

and guides

software

Read Free

Language

engineers in  
choosing the  
right approaches  
for their

applications.

This book's  
techniques may  
be utilized with  
most modern

object-oriented  
languages; the  
author provides  
numerous

examples in Java

Read Free

Language

and C#, as well

as selected

examples in

Ruby. Wherever

possible,

chapters are

organized to be

self-standing,

and most

reference topics

are presented in

a familiar

patterns format.

Armed with this

Read Free

Language

wide-ranging

book, developers

will have the

knowledge they

need to make

important

decisions about

DSLs—and, where

appropriate,

gain the

significant

technical and

business

benefits they



# Read Free

# Language

# Implementation

# Patterns Create

# Your Own

# Domain Specific

# And General

# Programming

# Languages

# Pragmatic

# Programmers

offer. The

topics covered

include: How

DSLs compare to

frameworks and

libraries, and

when those

alternatives are

sufficient. Using

parsers and

parser

generators, and

parsing external

DSLs

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Language

Understanding,

comparing, and

choosing DSL

language

constructs

Determining

whether to use

code generation,

and comparing

code generation

strategies

Previewing new

language

workbench tools

Read Free  
Language  
Implementation  
Patterns Create  
Your Own  
Enterprise  
Integration Specific  
Patterns  
And General  
Programming  
Languages  
Pragmatic  
Programmers

for creating  
DSLs  
Enterprise  
Integration  
Patterns  
provides an  
invaluable  
catalog of sixty-  
five patterns,  
with real-world  
solutions that  
demonstrate the  
formidable of

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Language

messaging and

help you to

design effective

messaging

solutions for

your enterprise.

The authors also

include examples

covering a

variety of

different

integration

technologies,

such as JMS,

# Read Free Language

MSMQ, TIBCO Acti

veEnterprise,

Microsoft

BizTalk, SOAP,

and XSL. A case

study describing

a bond trading

system

illustrates the

patterns in

practice, and

the book offers

a look at

emerging

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Language

standards, as well as insights into what the future of

enterprise

integration might hold. This book provides a

consistent vocabulary and visual notation framework to

describe large-scale

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Language

integration

solutions across  
many

technologies. It

also explores in

detail the

advantages and

limitations of

asynchronous

messaging

architectures.

The authors

present

practical advice

Read Free  
Language  
Implementation  
Patterns Create  
Your Own  
Domain Specific  
And General  
Programming  
Languages  
Pragmatic  
Programmers

on designing  
code that  
connects an  
application to a  
messaging  
system, and  
provide  
extensive  
information to  
help you  
determine when  
to send a  
message, how to  
route it to the



# Read Free

# Language

# Implementation

# Patterns Create

# Your Own

# Domain Specific

# And General

# Programming

# Languages

# Pragmatic

# Programmers

proper destination, and

how to monitor

the health of a

messaging

system. If you

want to know how

to manage,

monitor, and

maintain a

messaging system

once it is in

use, get this

book.

# Read Free Language Implementation

A catalog of  
Patterns Create  
Your Own  
solutions to  
commonly

occurring design  
Domain Specific  
problems,  
And General  
presenting 23  
Programming  
patterns that  
Languages  
allow designers  
to create  
Pragmatic  
flexible and  
Programmers  
reusable designs  
for object-  
oriented

Read Free

Language

software.

Describes the  
circumstances in  
which each

pattern is

applicable, and

discusses the  
consequences and

trade-offs of

using the

pattern within a  
larger design.

Patterns are

compiled from

Read Free

Language

real systems,

and include code

for

implementation

in object-

oriented

programming

languages like

C++ and

Smalltalk.

Includes a

bibliography.

Annotation

copyright by

*Page 124/134*

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Language

Book News, Inc.,

Portland, OR

The definitive

resource on

domain-specific

languages: based

on years of real-

world

experience,

relying on

modern language

workbenches and

full of

# Read Free Language

examples. Domain-

Specific Create

Languages are  
programming

languages Specific

specialized for  
a particular  
application

domain. By

incorporating  
knowledge about  
that domain,

DSLs can lead to  
more concise and

# Read Free

# Language

more analyzable  
programs, better  
code quality and  
increased

development  
speed. This book  
provides a  
thorough

introduction to  
DSL, relying on  
today's state of  
the art language  
workbenches. The  
book has four

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# Language

# Implementation

introduction,  
DSL design, DSL  
implementation

# Domain Specific

role of DSLs in  
various aspects  
of software

# Programming

# Languages.

Part I

# Pragmatic

Introduction:

# Programmers

This part

introduces DSLs  
in general and



# Read Free

# Language

discusses their advantages and drawbacks. It also defines

important terms and concepts and introduces the case studies used in the most of the remainder of the book.

Part II DSL

Design: This part discusses

# Read Free Language

the design of

DSLs –  
Patterns Create

independent of  
Your Own  
implementation

techniques. It

reviews seven  
And General  
design

dimensions,

explains a

number of  
Pragmatic  
reusable

language  
Programmers

paradigms and

points out a

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Language

Implementation

process-related  
issues. Part III  
DSL

Implementation:

This part  
provides details  
about the

implementation  
of DSLs with  
lots of code. It  
uses three state-  
of-the-art but  
quite different

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# Language

## Implementation

workbenches:

JetBrains MPS,

Eclipse Xtext

and TU Delft's

Spoofax. Part IV

DSLs and

Software

Engineering:

This part

discusses the

use of DSLs for

requirements,

architecture,

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Language

implementation

and product line

engineering, as

well as their

roles as a

developer

utility and for

implementing

business logic.

The book is

available as a

printed version

(the one your

are looking at)

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Language

and as a PDF.

For details see  
the book's  
companion

website at <http://dslbook.org>

Programming

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a70c4533f04a2912

Programmers