

Contents

Preface *page* ix

Introduction 1

1. General Principles 4

2. Formatting 7

 Layout 7

 White Space 12

 Code Blocks 15

 Formatting Summary 17

3. Naming 18

 General 19

 Variables and Parameters 24

 Constants 33

 Structures and Cell Arrays 35

 Functions 37

 Classes 42

 Data Files and Directories 45

 Naming Summary 48

4. Documentation 49

 General 49

 Comments 51

 Header Comments 58

 Block Comments 66

Cambridge University Press

978-0-521-73258-1 - The Elements of MATLAB® Style

Richard K. Johnson

Table of Contents

[More information](#)

vi CONTENTS

Interspersed or Inline Comments	69
Documentation Summary	69

5. Programming 71

General	71
Variables and Constants	73
Character Strings	81
Structures	83
Cell Arrays	85
Expressions	87
Statements	90
Loops	91
Conditionals	96
Logical Functions	103
Vectorization	104
Functions	105
Input and Output	116
Classes and Objects	119
Exceptions, Errors, and Warnings	128
Output Style	131
Tests	131
Data Files	135
Programming Summary	136

6. Files and Organization 138

Toolboxes	138
Project Files	140
Organization Summary	142

7. Development 144

Design	145
Development Practices	147
MATLAB IDE Tools	149

CONTENTS vii

Development Summary 152

Keywords..... 155

is* function list 157

Glossary 159

Bibliography 165

Index 167