

Paul S. Hethmon

*Illustrated
Guide to*
HTTP



Covers HTTP/1.1

 MANNING



COMPACT DISK INCLUDED

Illustrated Guide to HTTP

PAUL S. HETHMON
"



MANNING

Greenwich
(74° w. long.)

For electronic browsing and ordering of this book, see <http://www.browsebooks.com>.

The publisher offers discounts on this book when ordered in quantity. For more information, please contact:

Special Sales Department
Manning Publications Co.
3 Lewis Street
Greenwich, CT 06830

Fax: (203) 661-9018
email: orders@manning.com



QA76
.76
H94H484
1997
MRC

©1997 by Manning Publications Co. All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by means electronic, mechanical, photocopying, or otherwise, without prior written permission of the publisher.

Recognizing the importance of preserving what has been written, it is Manning's policy to have the books it publishes printed on acid-free paper, and we exert our best efforts to that end.

Many of the designations used by manufacturers and sellers to distinguish their products are claimed as trademarks. Where those designations appear in the book, and Manning Publications was aware of a trademark claim, the designations have been printed in initial caps or all caps.

Library of Congress Cataloging-in-Publication Data

Hethmon, Paul S.

Illustrated guide to HTTP / Paul S. Hethmon.

p. cm.

Includes bibliographical references and index.

ISBN 1-884777-37-6

1. Hypertext systems. 2. HTTP (Computer network protocol)


I. Title.

QA76.76.H94H484 1997

004.6'2—dc21

97-1596

CIP

 Manning Publications Co.
3 Lewis Street
Greenwich, CT 06830

Copyeditor: Maggie Mitchell
Typesetter: Dorothy Marsico
Cover designer: Leslie Haimes

Printed in the United States of America

1 2 3 4 5 6 7 8 9 10 - CR - 00 99 98 97

contents

preface xii

acknowledgments xiv

1 Introduction 1

- 1.1 Is this book for you? 2
- 1.2 Required background 3
- 1.3 The material 4
- 1.4 Finishing 6

2 HTTP overview 7

- 2.1 What is the World Wide Web? 8
 - The client/server model 8
- 2.2 General operation 10
- 2.3 A bit of history 12
 - HTTP/0.9 12, HTTP/1.0 13
- 2.4 HTTP/1.1 16
 - New request methods 17, Persistent connections 18,
 - Chunked encoding 19, Byte range operations 20,
 - Content negotiation 20, Digest Authentication 21,
 - Caching 22
- 2.5 Finishing 24

- 3 *Basic HTTP—syntax and semantics* 25
 - 3.1 Terminology 26
 - 3.2 Protocol syntax 31
 - 3.3 The basic grammar 33
 - 3.4 Basic HTTP concepts 34
 - HTTP version 34, Uniform Resource Identifiers 35, Formats for date and time 38, Code: date handling 39, Character sets 41, Content codings 42, Transfer codings 43, Code: chunked encoding 44, Media types 47, Product tokens 49, Quality values 49, Language tags 50, Entity tags 50, Range units 51
 - 3.5 Finishing 52

- 4 *The request* 53
 - 4.1 The Request Message 54
 - 4.2 Method definitions 55
 - The OPTIONS method 55, The GET method 56, The HEAD method 57, The POST method 58, The PUT method 59, The DELETE method 60, The TRACE method 60
 - 4.3 The request header fields 61
 - Accept 61, Accept-Charset 62, Accept-Encoding 62, Accept-Language 62, Authorization 63, Code: Base64 64, From 67, Host 67, IF-Modified-Since 67, IF-Match 68, IF-None-Match 68, IF-Range 69, IF-Unmodified-Since 69, Max-Forwards 69, Proxy-Authorization 70, Range 70, Referer 71, User-Agent 71
 - 4.4 Implementation 71
 - GET and HEAD 72, POST 78, PUT 80, DELETE 81, OPTIONS 81, TRACE 82
 - 4.5 Finishing 83

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.