### Michael Whittaker

# Beej's Guide to Network Programming

Thoughts and Notes

beejsockets github

CONTENTS Michael Whittaker

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#### **Preface**

This document contains the notes, musings, and thoughts generated during my reading of "Beej's Guide to Network Programming" by Brian Hall. The notes were taken primarily to encourage a thorough reading of the book and to help me recall the most important tidbits from the book upon a rereading of my notes. I can imagine the notes may be helpful to more than just me, so I am making them publicly available. A network programming novice, I cannot guarantee my notes are entirely correct, or even sensical at times. If you ever encounter a mistake, please contact me at mjw297@cornell.edu.

Along with the notes, I've thrown together some source code and other resources. Some of the code is taken directly from the text while some is original. All notes, code, and resources can be found at the beejsockets github.

Enjoy!

Intro Michael Whittaker

### 1 Intro

This book will teach network programming!

#### 1.1 Audience

This is a tutorial, not a reference, for novice programmers.

#### 1.2 Platform and Compiler

Compiled using Gnu's gcc.

#### 1.3 Official Homepage and Books For Sale

Visit <a href="http://beej.us/guide/bgnet">http://beej.us/guide/url/bgbuy</a>.

#### 1.4 Note for Solaris/SunOS Programmers

You have to additional work (see the book).

#### 1.5 Note for Windows Programmers

Switch to Unix:P

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### 2 What is a socket?

### 3 IP Adresses, structs, and Data Munging

# 4 Jumping from IPv4 to IPv6

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# 5 System Calls or Bust

# 6 Client-Server Background

# 7 Slightly Advanced Techniques