

Web Performance Fundamentals

jatin

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Contents

1 Objective	1
2 Working of Webpage	1
2.1 From Hypertext document to complex Web Application . . .	1
2.2 Dependency Graph	1
2.3 Critical Rendering Path	2

1 Objective

- Understanding working of a webpage
- Critical Rendering Path
- Analysis and Optimization
- Hands-on with chrome dev tools
- Hands-on wit pagespeed, yslow and webpagetest

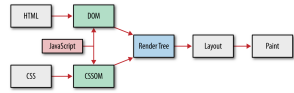
2 Working of Webpage

2.1 From Hypertext document to complex Web Application

- Plain hypertext document with text and hyperlink to other hypertext documents
- Web page with images, audio and styling of tags.

- Web application \Leftrightarrow Webpage + JavaScript

2.2 Dependency Graph



2.3 Critical Rendering Path

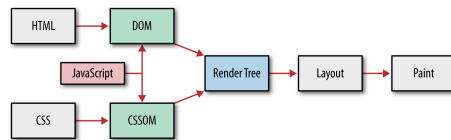


Figure 1: Number of urls versus Use a Content Delivery Network (CDN)