

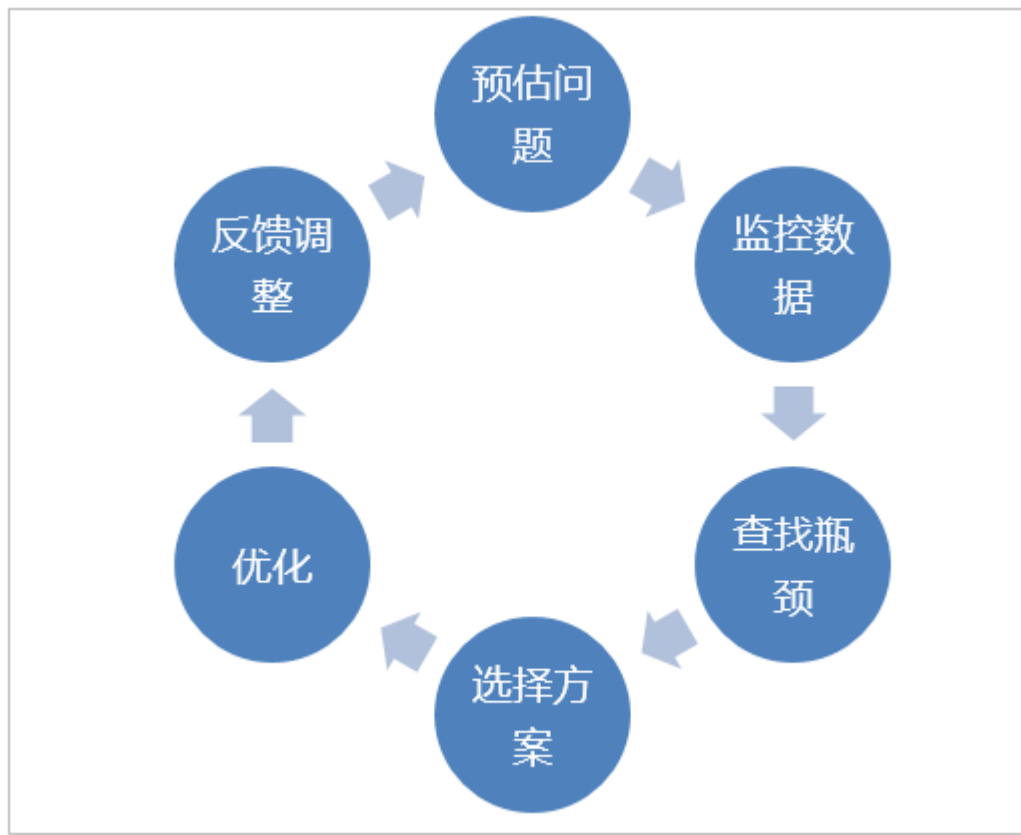


性能优化整体解决方案





性能优化整体流程





为什么需要性能优化

性能	收益
Google 延迟 400ms	搜索量下降 0.59%
Bing 延迟 2s	收入下降 4.3%
Yahoo 延迟 400ms	流量下降 5-9%
Mozilla 页面打开减少 2.2s	下载量提升 15.4%
Netflix 开启 Gzip	性能提升 13.25% 带宽减少 50%





性能优化目的

用户更快的访问、使用产品的功能





性能优化需要优化些什么？

1

页面加载完成时间
(**onload**)

2

用户可操作时间 (**dom
ready**)

3

首屏时间
白屏时间





机器自动监控 **or** 用户数据上报监控





建立监控建议

1. 足够的样本量
2. 支持新功能的抽样监控
3. 支持定制化监控





传统性能优化方式

YAHOO!

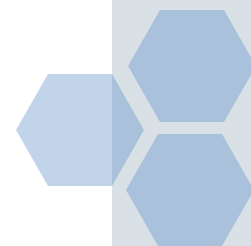
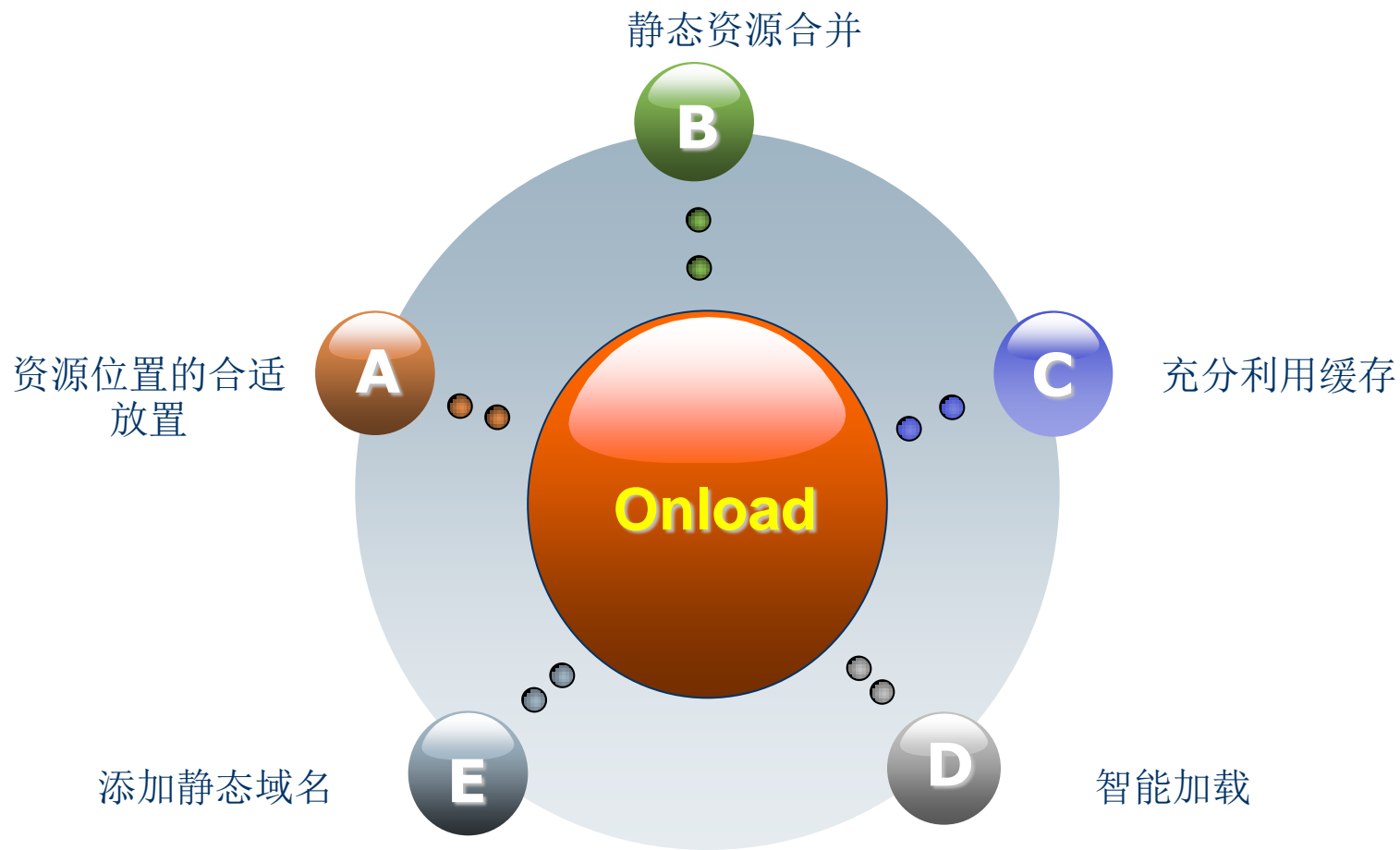
AJAX Edition

Google™



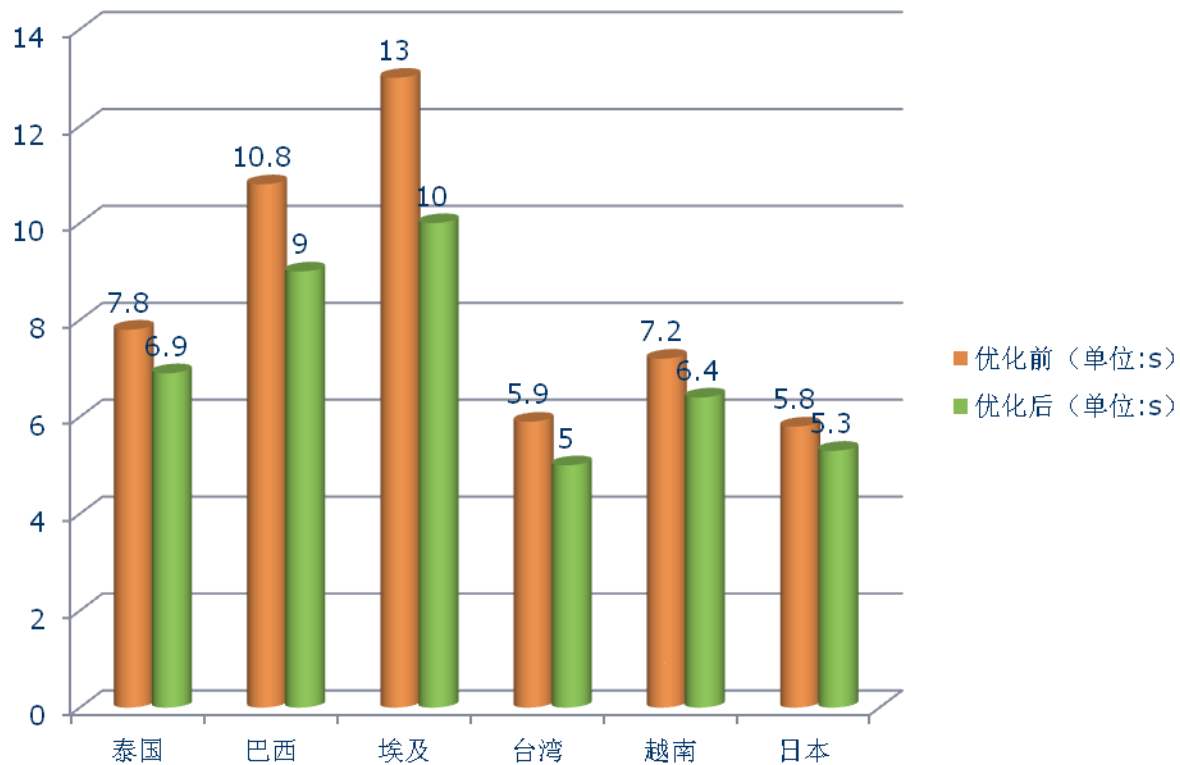


传统优化方式





传统优化某网站收益（onload时间）





传统优化方式总结

1. 优化的成果难以得到保持

- a. 产品迭代过快，新产品的上线抹杀了前期的优化成果

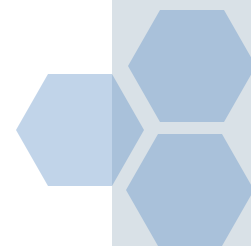
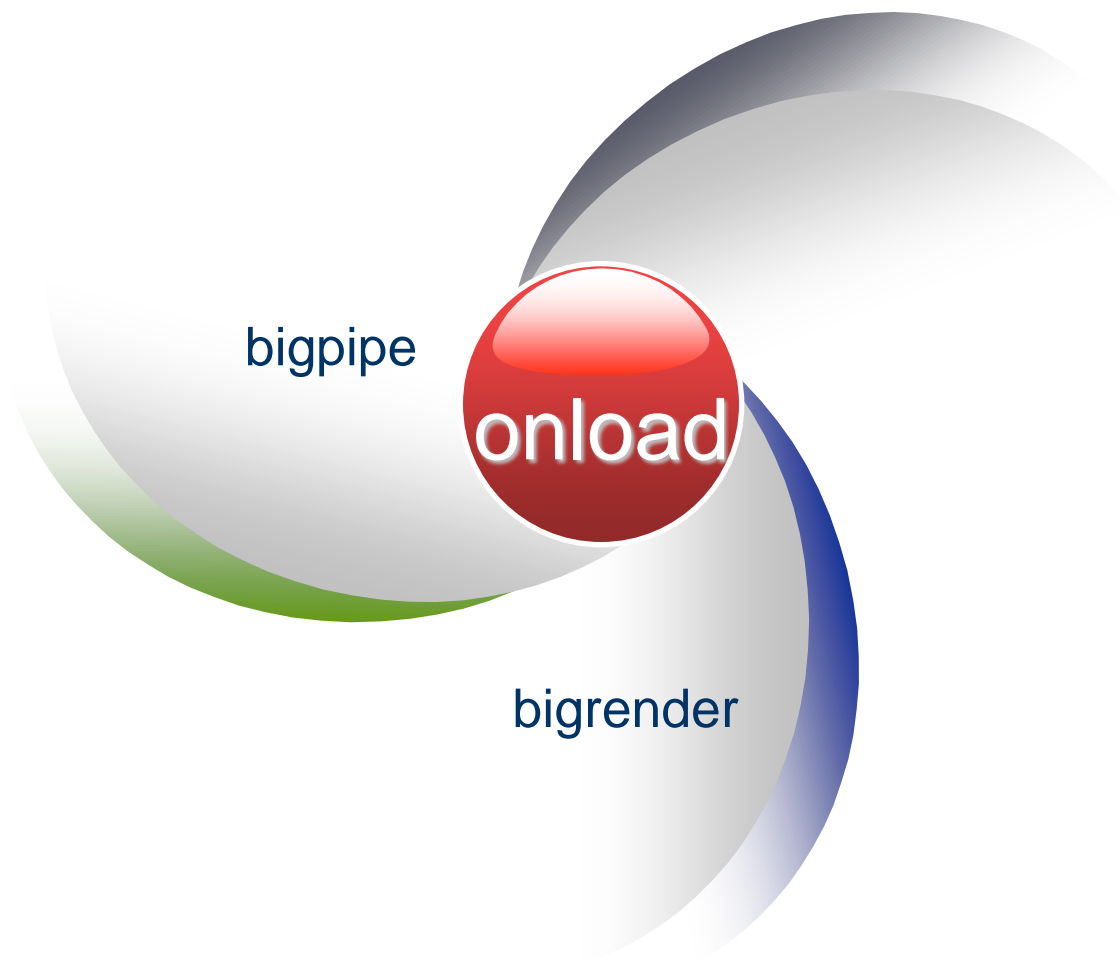
2. 传统的优化方式遇到瓶颈

- a. 内容接入区域的资源优化不可控
- b. 产品迭代过快，页面的复杂度增加。造成传统优化遇到瓶颈



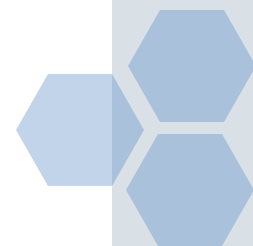
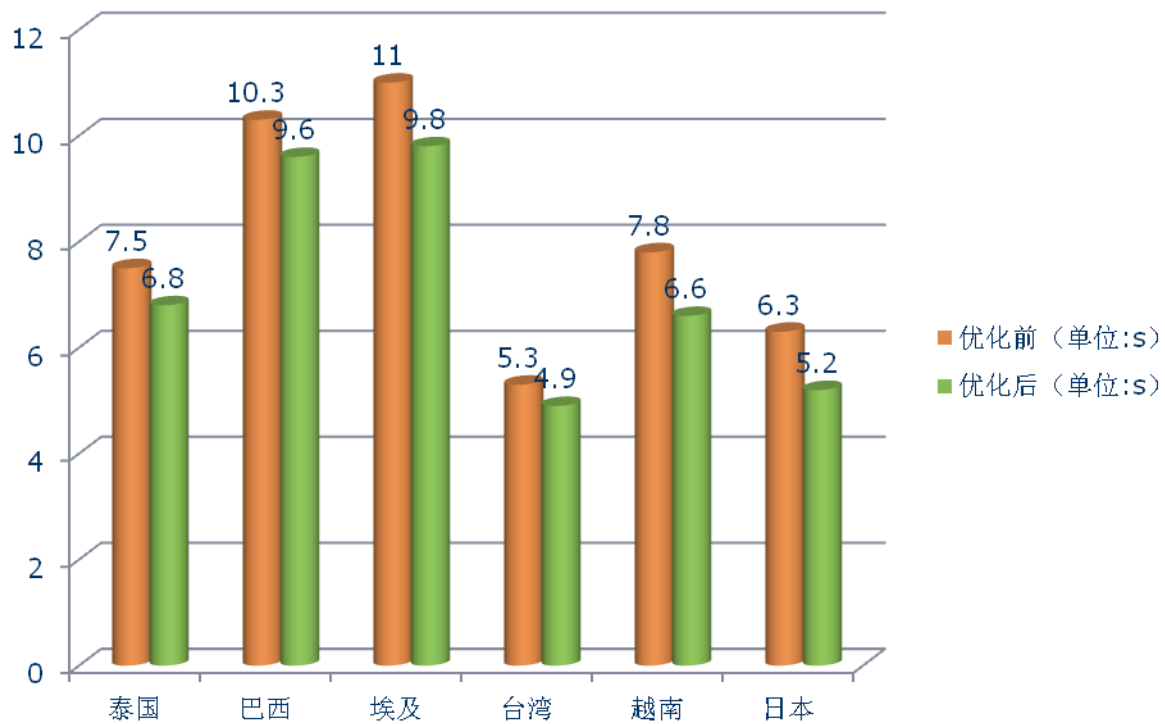


新型优化方式选型





新型优化方式收益





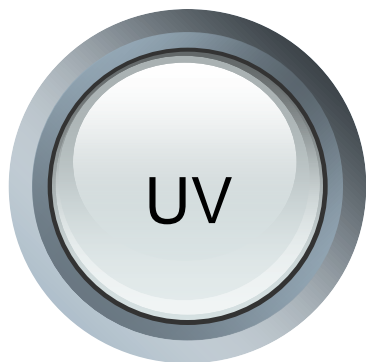
新型传统优化方式总结

1. 需要研发手工干预
2. 浪费研发的时间





传统的性能指标问题



提升不明显



ONLOAD?





产品线指标建议



一切用数据说话

Hunter >

(1) 99.94%
[0~70]

(2) 99.88%
[70~140]

(3) 99.82%
[140~210]

(4) 99.73%
[210~280]

(5) 99.54%
[280~350]

(6) 99.00%
[350~420]

(7) 96.77%
[420~490]

(8) 91.96%
[490~560]

(9) 80.16%
[560~630]

Hunter >

(10) 21.97%
[630~700]

(11) 16.26%
[700~770]

(12) 9.31%
[770~840]

(13) 6.90%
[840~910]

(14) 2.14%
[910~980]

(15) 1.61%
[980~1050]

(16) 1.27%
[1050~1120]

(17) 1.05%
[1120~1190]

(18) 0.87%
[1190~1260]

Baixar agora mesmo o atalho do Hao123 e tenha acesso aos melhores sites da web!

Hao123

e Pronto!

Previsão para os próximos 5 dias

25 de Junho, Terça-Feira

Entrar com Facebook

Definir página inicial

Web / Downloads / Vídeos / Músicas / Imagens / Tradutor / Mapas / Post

Google

Búsquedas populares: pec 37 jogo ao vivo telexfree manifestação sp

Hot Mais visitados

Facebook

Globo

Orkut

YouTube

MegaFilmes HD

TV Online Grátis

Baixaki

Ultra Downloads

Hotmail

Yahoo! Brasil

UOL

Twitter

Itaú

Kboing

Globo Esporte

R7

Fotos Bonitas

MercadoLivre

Google

Gmail

ClickJogos

FRIV

Jogos

337 Jogos

Softwares

Jogos

TV Online

Filmes

PC Faster

ClickJogos

TV Online Grátis

MegaFilmes HD

Spark Browser

Jogos 360

MegaTV Online

Armagedom Filmes

MSN Messenger

Ojogos

Ver TV Online

Baixar Filmes Dublados

Avast!

Travian

Ao Vivo Agora

G1 Filmes

Skype

Big Farm

Globo TV

AdoroCinema

RealPlayer

Level Up!

VTO

Filmes Online Grátis

Música

Imagens

Postbar

Bancos

Palco MP3

Meninas Bonitas

Mulheres Sensuais

CEF

Vagalume

Capa do Facebook

Gay

Banco do Brasil

Kboing

Memes

Lésbica

Bradesco

Som13

Deusa Sexy

Seleção Brasileira

Santander Brasil

Music Online

Wallpaper

Piadas

Itaú

Rádio UOL

Animais

Filmes

Banco Central BR

Portais

Esportes

Compras

Vídeos

Terra

Globo Esporte

MercadoLivre

YouTube

Yahoo! Brasil

Lancenet

COMPRAfácil

Dailymotion

Globo.com

UOL Esporte

Netshoes

Videolog

iG

ESPN

Submarino

TV UOL

UOL

R7 Esportes

PeixeUrbano

Vimeo

Email

Humor

Comunidades

Celebridades

Yahoo! Mail

Não Intendo

Facebook

CARAS

Spark Browser

Imagens Vídeos Música Jogos

Brasileiras boni... Meninas Picantes

Coloridas Animais

Horóscopo

25 de Junho

Capricórnio 12.22 - 01.19

Hoje Amanhã

Resumo

Amor

Dinheiro

Trabalho

O medo de não ser aceito, reconhecido ou valorizado ...

56~77
708997

Novo

share

25% 50% 75%

721~728
135649

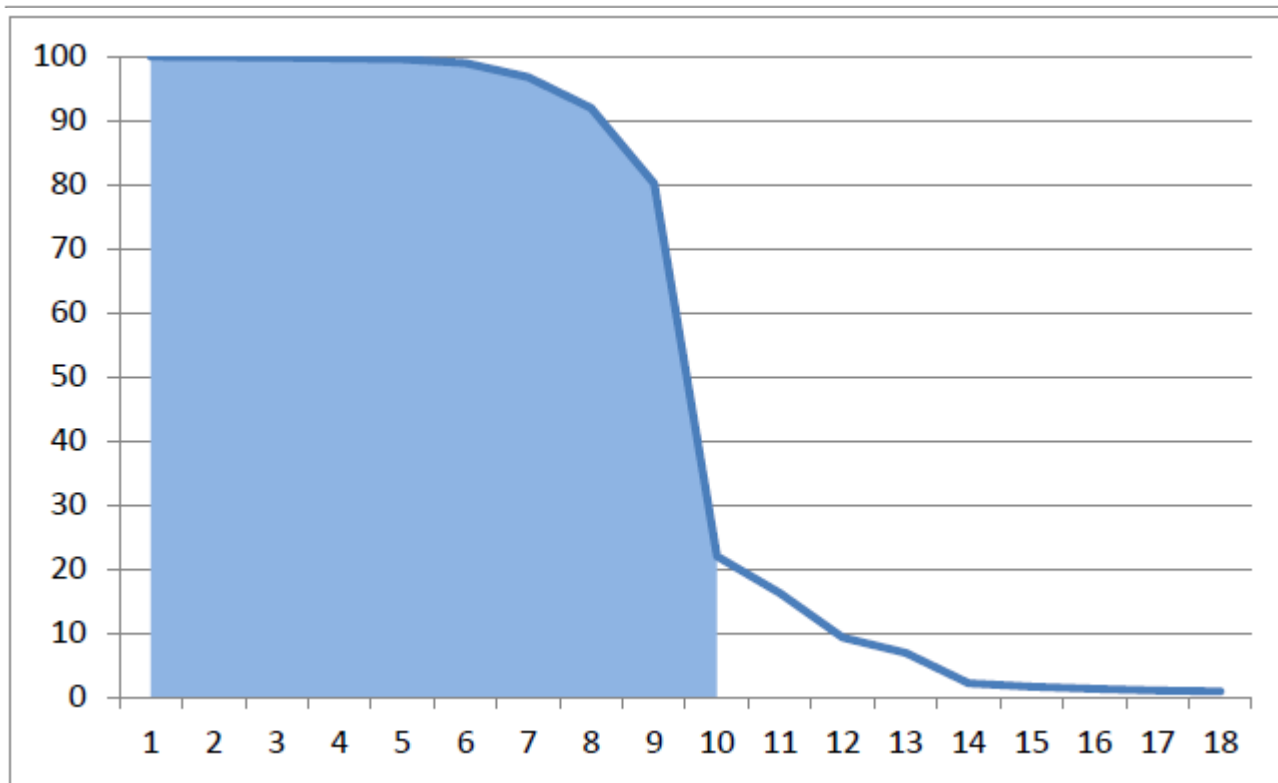
Novo

share

25% 50% 75%

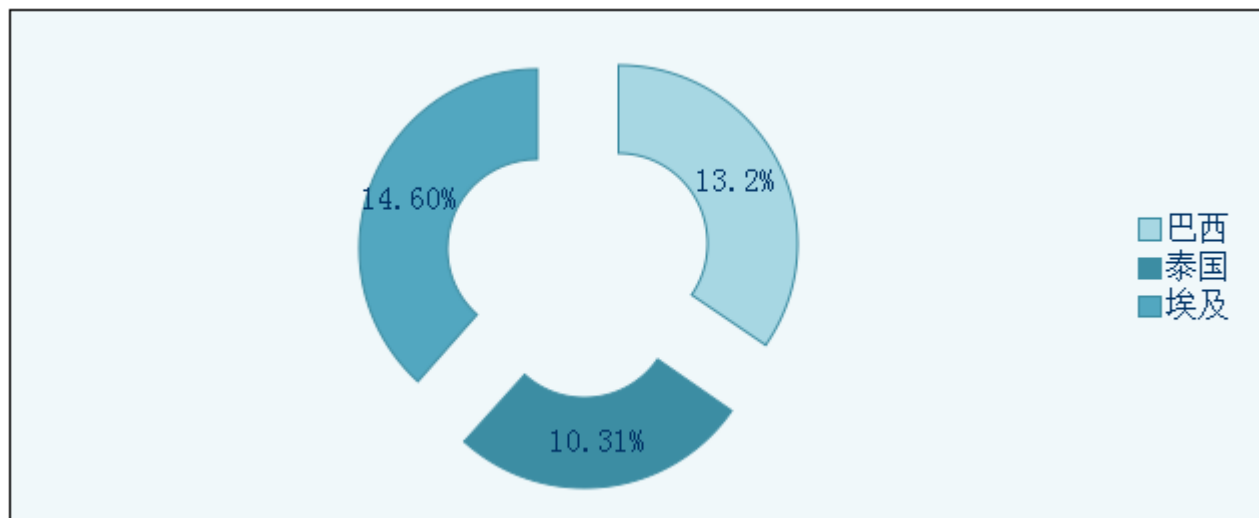


用户页面到达深度





白屏用户流失比率





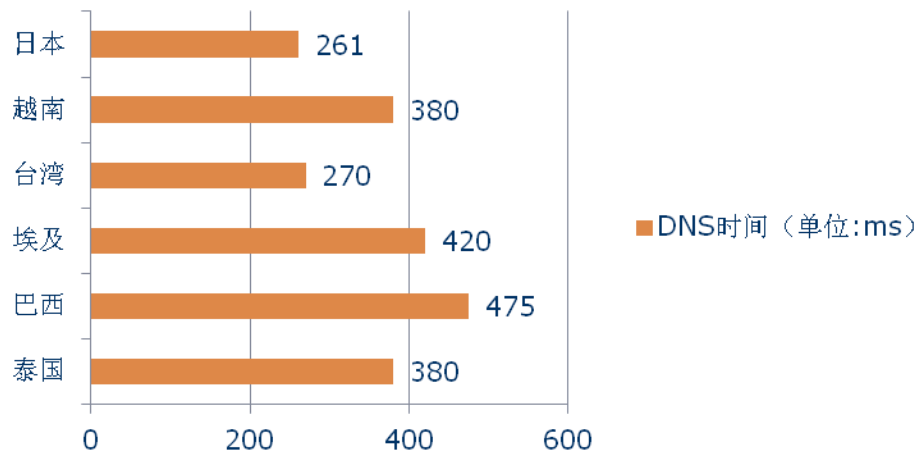
性能目标调整



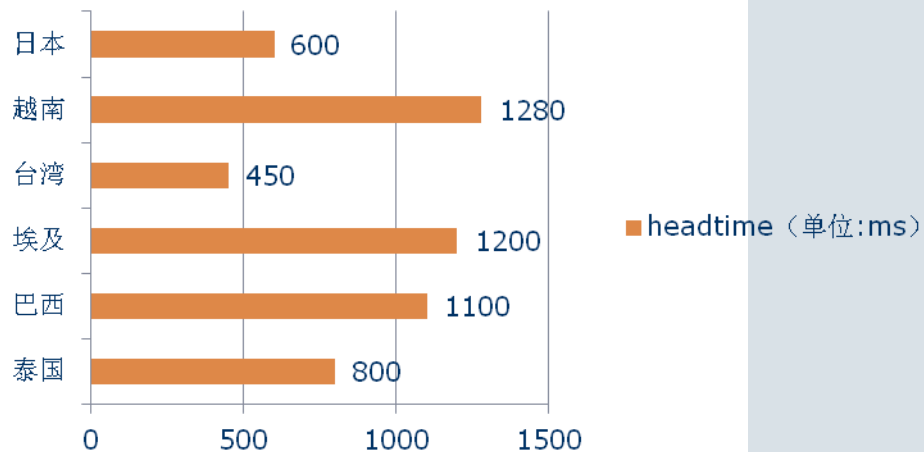


监控数据

DNS时间（单位:ms）



headtime（单位:ms）

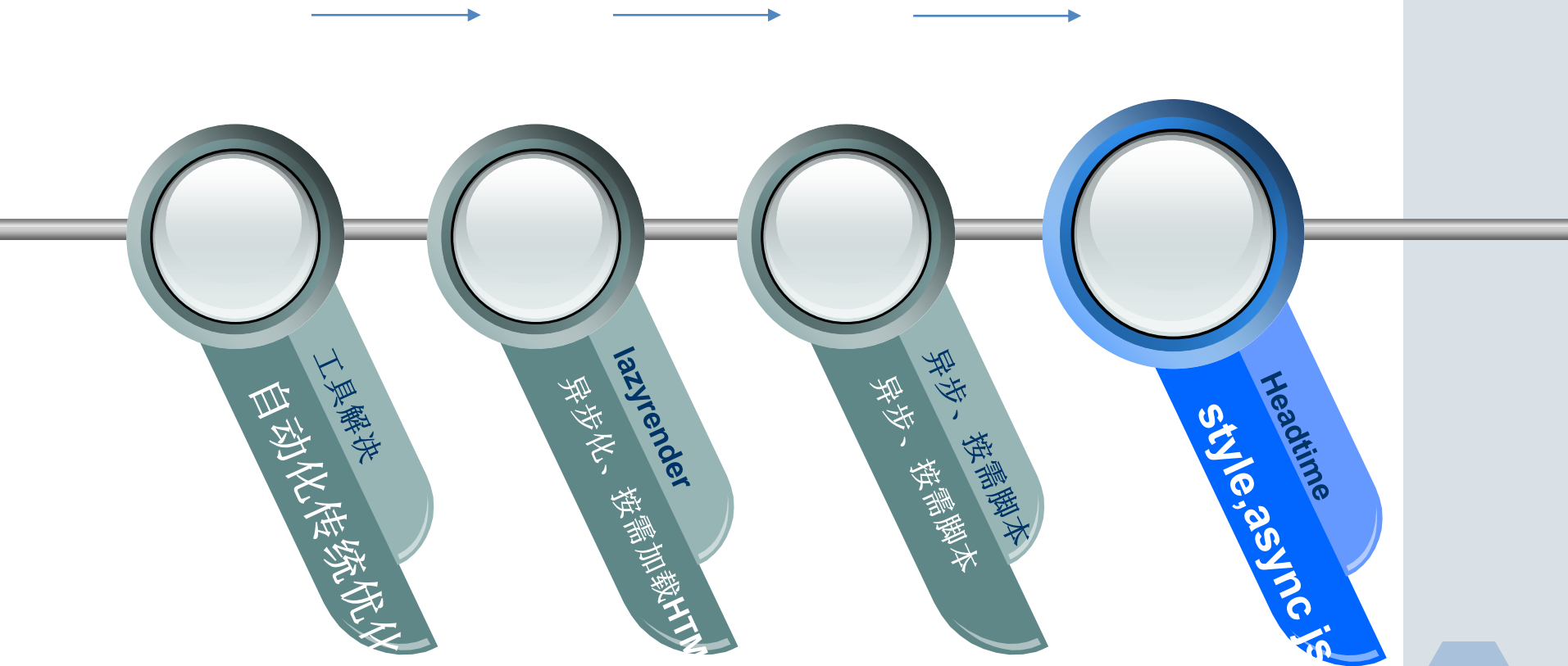


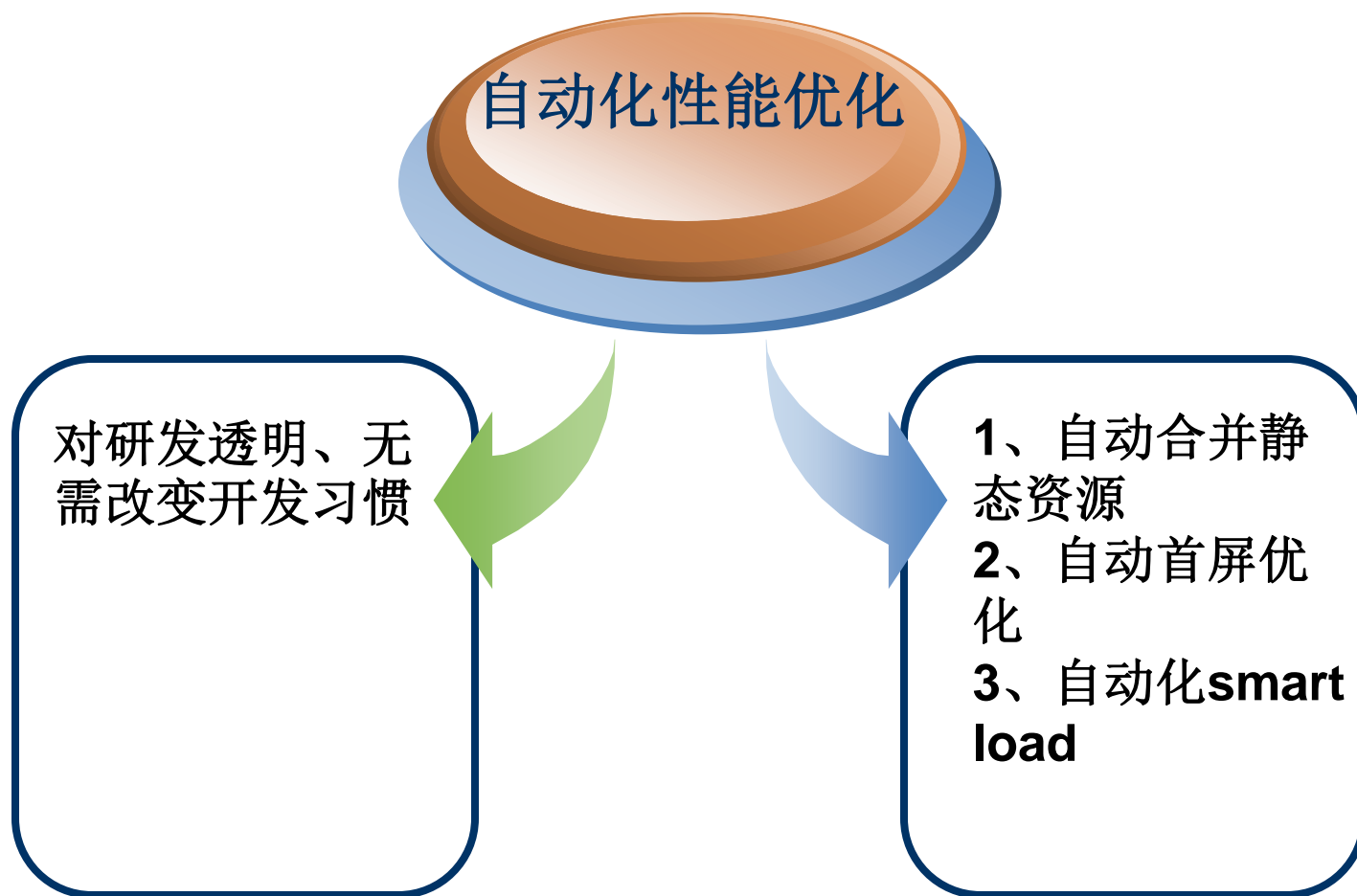
数据传输时间（单位:ms）





自动新型优化方式技术概要







lazyrender

lazyrender = asyn(html、css、js) + render





Smart Load

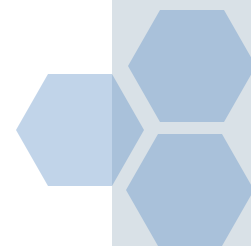
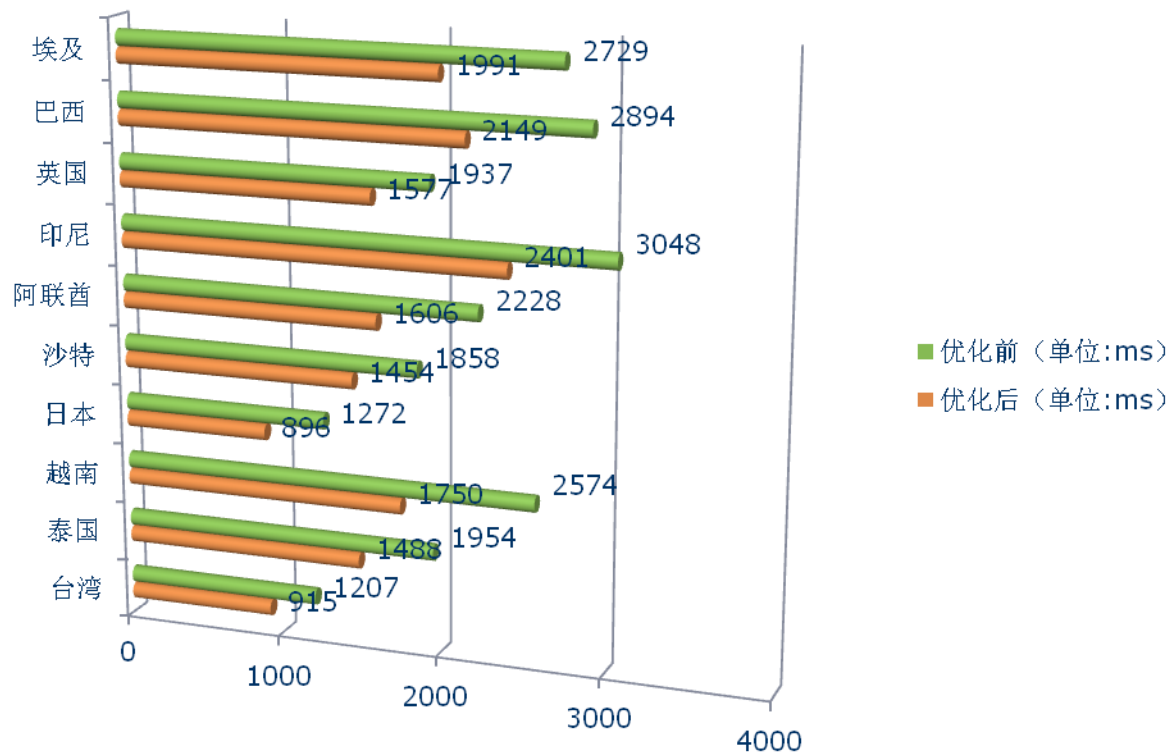
非首次交互的脚本、样式、图片按条件下载、执行





Inline+asyncrender

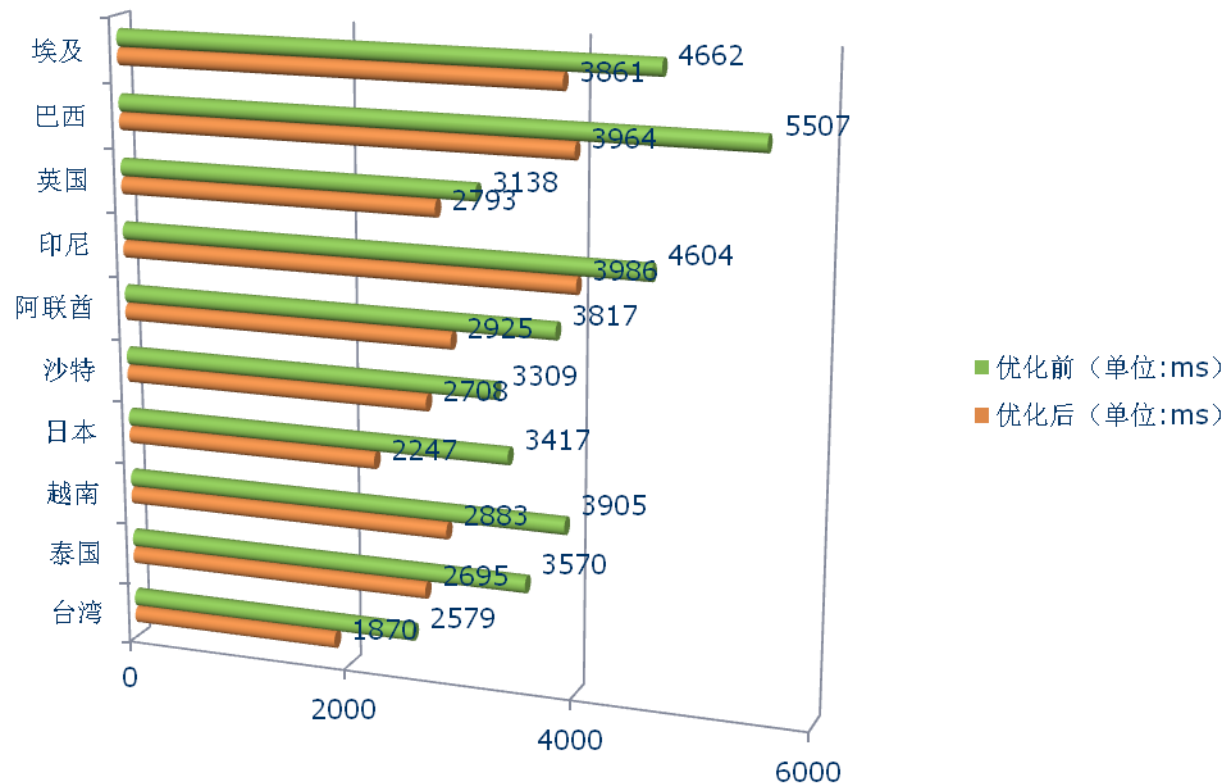
白屏时间





Inline+asyncrender

首屏时间





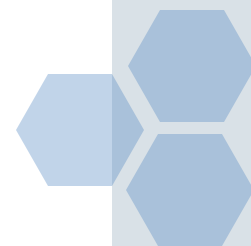
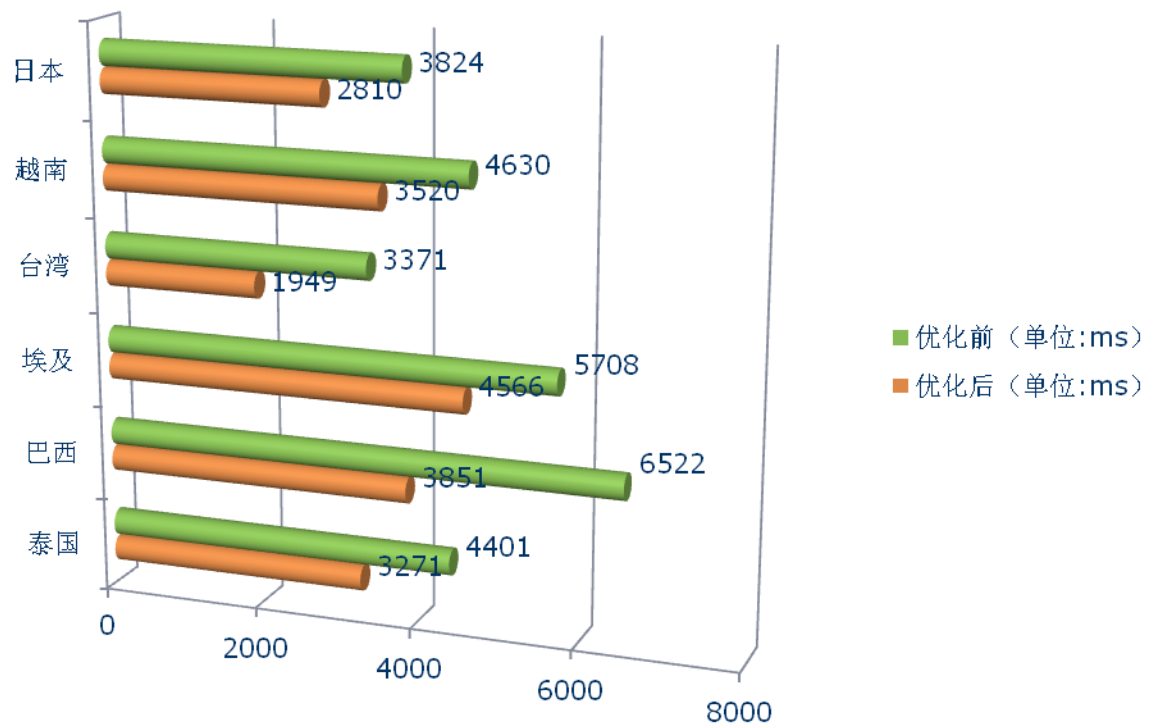
整站异步化

1. 异步化首页避免SPOF
2. 避免脚本的堵塞下载,渲染
3. 模块功能提前可用



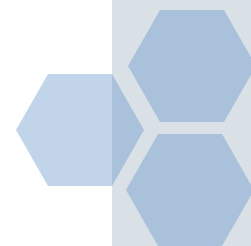
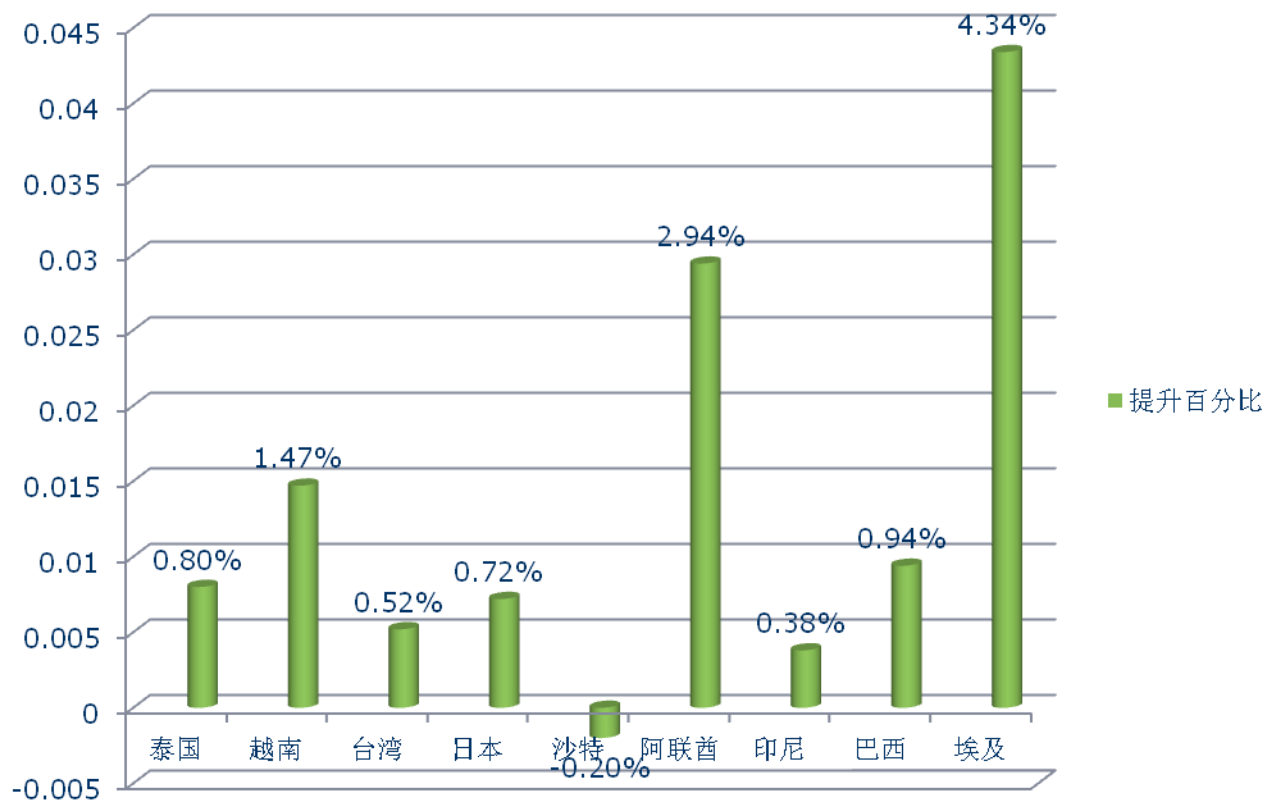


用户可操作时间





产品性能指标提升





oppo案例分析

- 1、静态资源未开启强缓存
- 2、未使用多静态域名
- 3、静态资源未合并
- 4、smart load





Q&A

Q&A

