



Lisbon School
of Economics
& Management
Universidade de Lisboa



Carlos J. Costa/ João Tiago Aparício

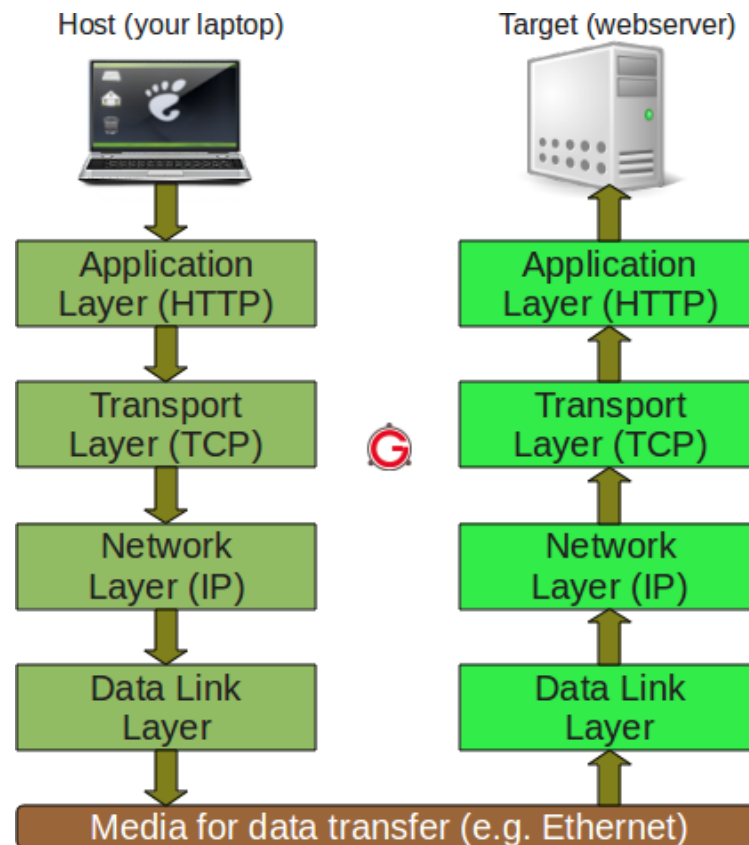
INTERNET E WEB

Índice

- Principais conceitos de Redes
 - Protocolos, DHCP, IP, DNS, HTTP
- Web Server/DB Server
- Browser
- Tecnologias Web
 - XAMP, MEAN Stack, .NET, Java Web Application
- Python Web Frameworks

Protocolos

- Protocolos:
 - HTTP (hipertext Transfer Protocol)
 - TCP (Transmission Control Protocol)
 - IP (Internet Protocol)
 - Ethernet



DHCP

- Servidor de DHCP (Dynamic Host Configuration Protocol)
 - tem por propósito atribuição de IP



DHCP

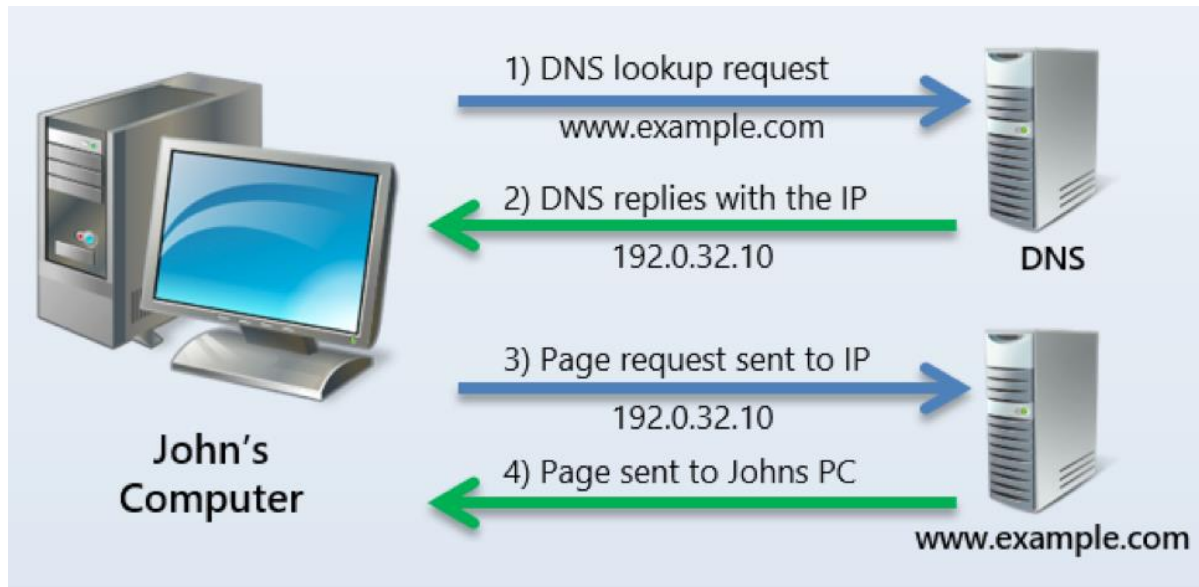
- Comandos para saber o IP do nosso computador
 - No DOS/Windows:
`ipconfig`
 - No Linux/Mac:
`ifconfig`

IP

- Computadores têm IP
- IP privado
- IP público
- Servidores também têm IP
 - Exemplo: `http://193.136.144.100/`

DNS

- DNS (Domain Name System)

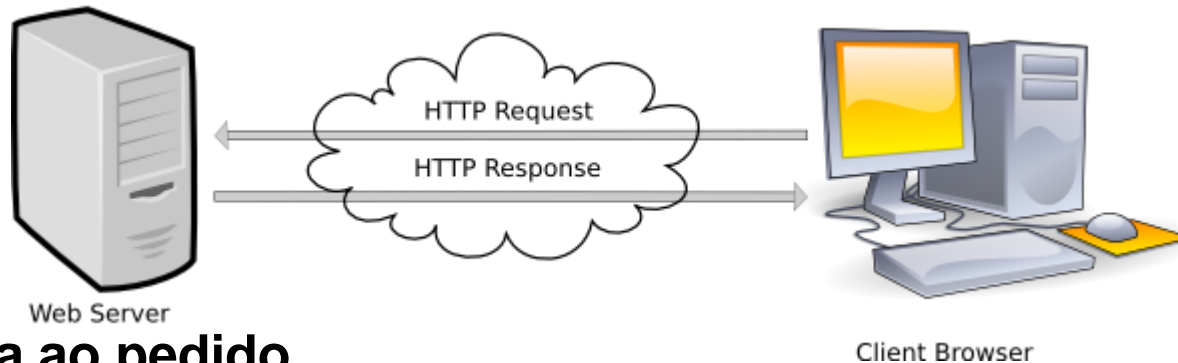


HTTP

2 – Pedido recebido

Pode existir: execução de programas, acesso base de dados...

1 – Pedido HTTP (escrevendo URL na barra de endereço)

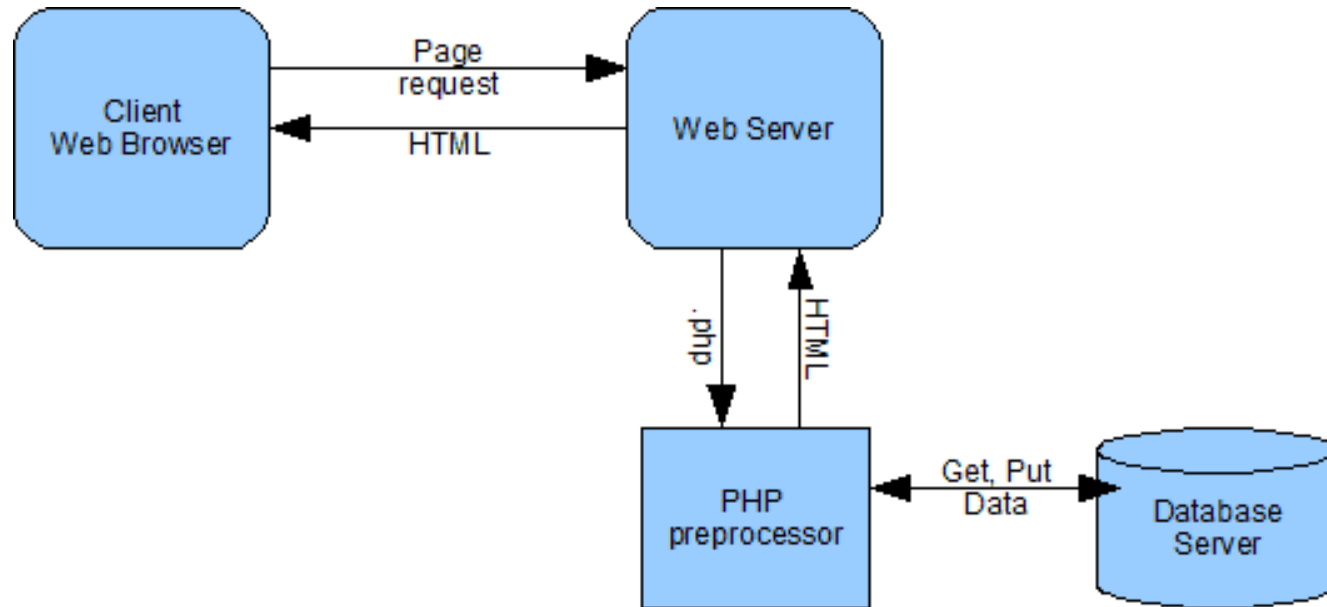


3- Reposta ao pedido

4 – Recebido reposta (ficheiros texto, imagens, etc)

5 – Interpretação do código

Wed Server/DB Server



Browser

- Fazer pedido HTTP
- Interpretar repostas (HTML, CSS, Javascript)
- Renderizar e Mostrar no Ecã
- Também tem ferramentas de desenvolvimento

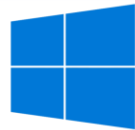


XAMPP



- XAMPP

- X



- Apache



- MariaDB (ou MySQL)



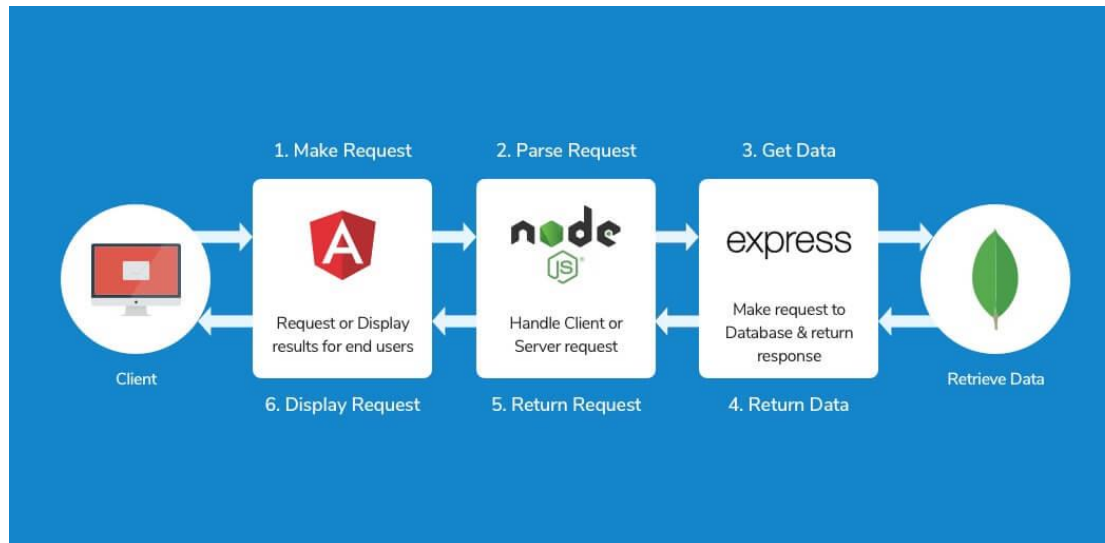
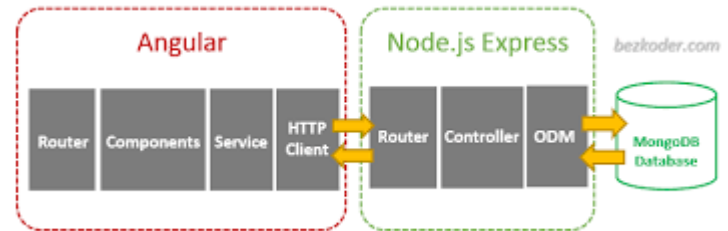
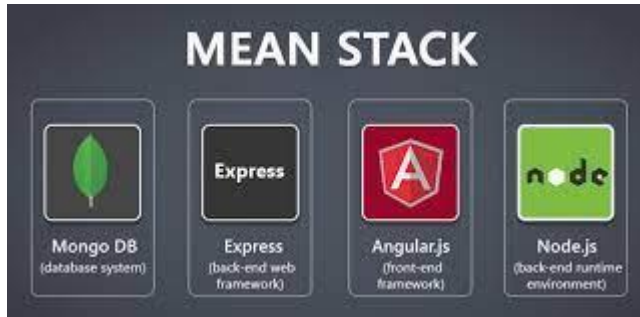
- PHP



- Perl



Mean Stack



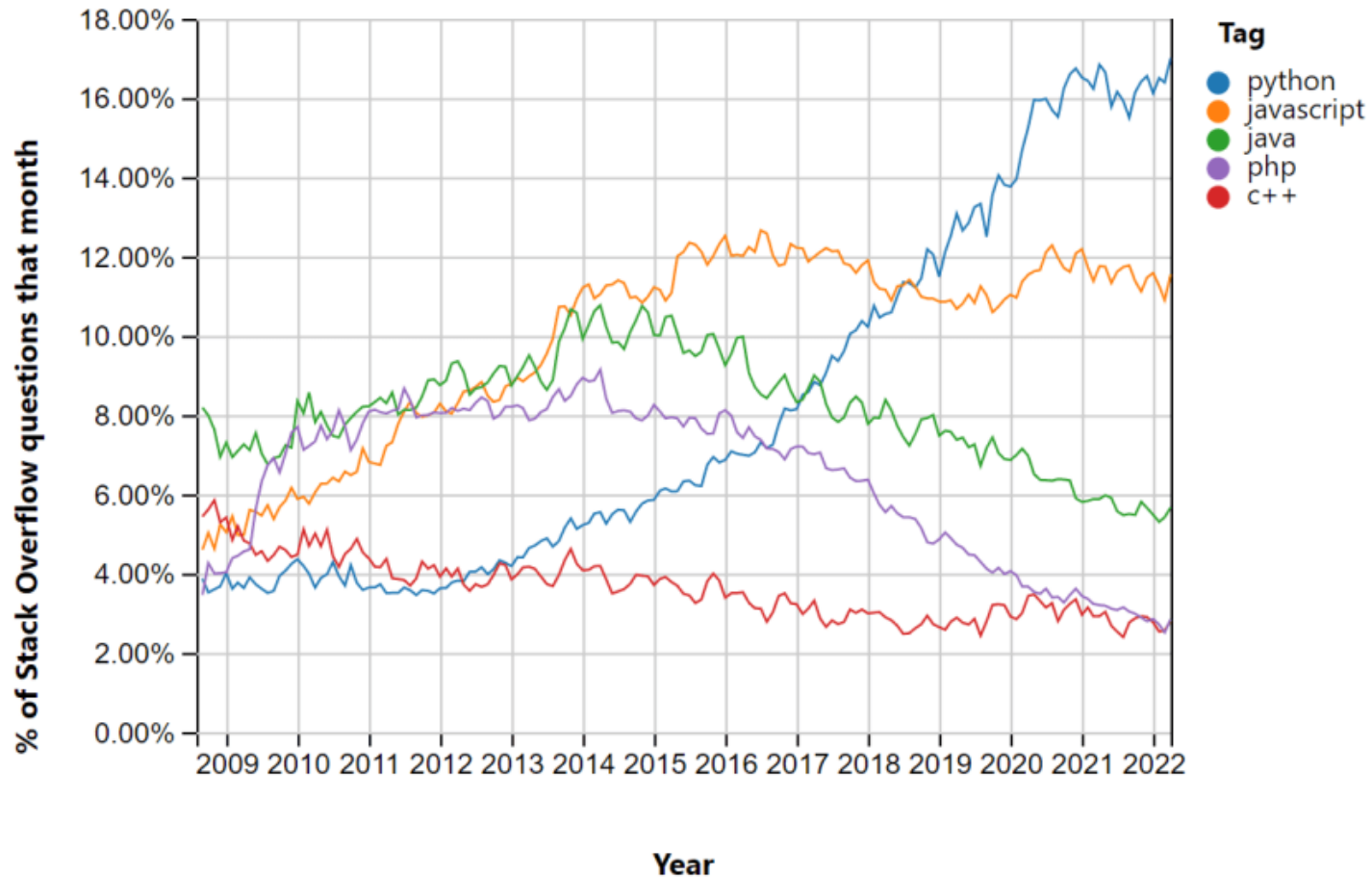
.NET



Java Web Application



Importância Crescente do Python



Python Web Frameworks

django



Bottle

Python Web Frameworks

WEB2PY



SANIC
FRAMEWORK



django vs flask

django



Type of Framework	Full Stack Web Framework	WSGI Framework
Flexibility	Feature-packed	Full flexibility
ORM Usage	Built-in ORM	SQLAlchemy
Design	Batteries included	Minimalistic Design
Working Style	Monolithic	Diversified
Architecture	MVT	Flexible/not defined

WSGI - Web Server Gateway Interface