

INTRODUCTION TO WEB DEVELOPMENT

– SABEEL KHAN

INTERNET BY THE NUMBERS

4.66 Billion Users

> 50% of all world population
has access

1.5 Billion websites

10x increase from 1999 to 2013

INTERNET HISTORY

1958

Bell Labs – Modem

1961

MIT – Packet Switching

1972

University Internet Nodes,
UCLA Chat

1974

Vint Cerf – TCP

HOW THE WEB WORKS

Clients

Servers

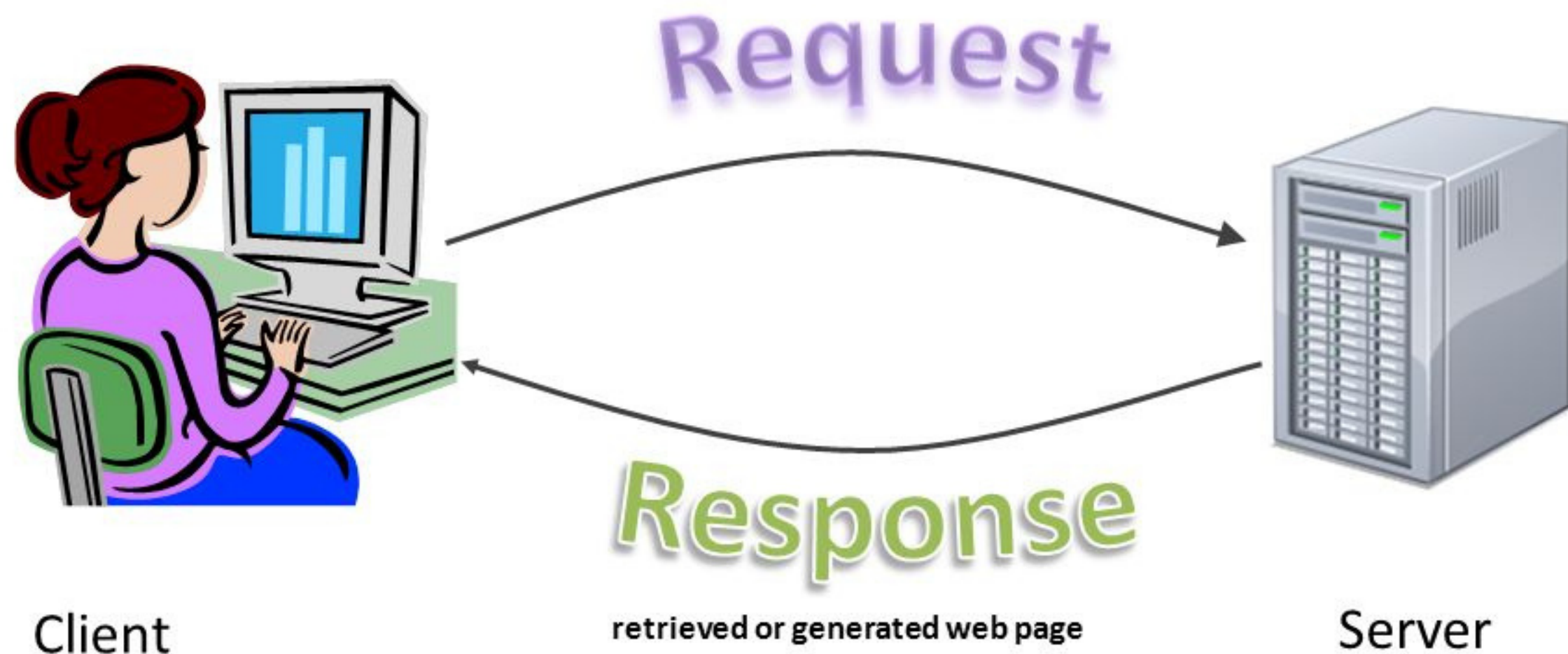
ISPs

DNS

Datacenters

CLIENT SERVER MODEL

Architecture of the web



COMPONENT OF THE WEB

Web Pages

Web Sites

Web Servers

Search Engines

CLIENT SIDE TECHNOLOGIES

HTML
Markup



CSS
Styling



JAVASCRIPT

jQuery
Angular
React
Vue



SERVER SIDE FRAMEWORKS

JAVA

Spring, Play, Jboss

PYTHON

Flask, Django, Bottle

NODE.JS

Express, Hapi.js

PHP

Laravel, Codeigniter

SERVER-SIDE DATABASES

RDBMS

MySQL
Postgres
Oracle
MS Databas



NOSQL

MongoDB
CouchDB
Memcache
Redis

TYPES OF WEBSITES

STATIC WEBSITE

All HTML content is created
and saved on the server



DYNAMIC WEBSITE

Content is generated on
Demand
for each User



RESPONSIVE

React to user and his
screen size