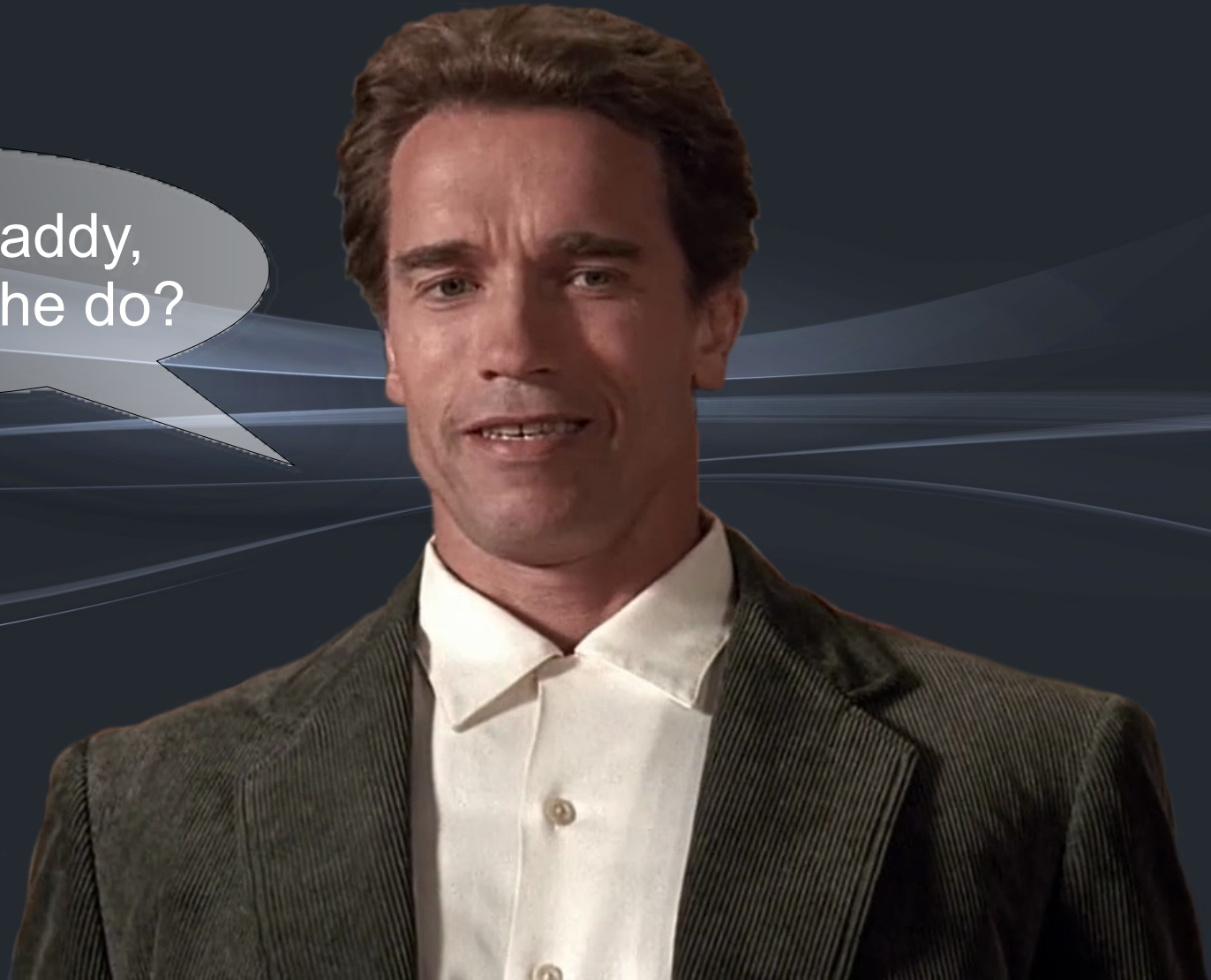# Introduction

Who is your daddy, and what does he do?

Who am I?

- Grew up in Stillwater

- Attended The Art Institutes International Minneapolis

- Portrait Photographer and Lab Technician for Ritz Camera

- Speak more than 10 different languages
  - HTML, CSS, JavaScript, PHP, SQL, etc.

What do I do?

- Web Developer and A/V Specialist for The American Academy of Neurology

- Freelance Web Developer

WWW

- World Wide Web

- A collection of connected computers forming a network

HTTP & HTML

- HTTP (Hypertext Transfer Protocol)

- HTML (Hypertext Mark-up Language)

```
<html>
    <head>
        <title>My Web Page</title>
    </head>
    <body>
        <h1>My Heading</h1>
        <p>My page content.....</p>
        ...
    </body>
</html>
```

URL

- URL (<u>U</u>niform <u>R</u>esource <u>L</u>ocator)

- IP Address (<u>I</u>nternet <u>P</u>rotocol)

- Domain (*example.com*)

- DNS (<u>D</u>omain <u>N</u>ame <u>S</u>ystem)
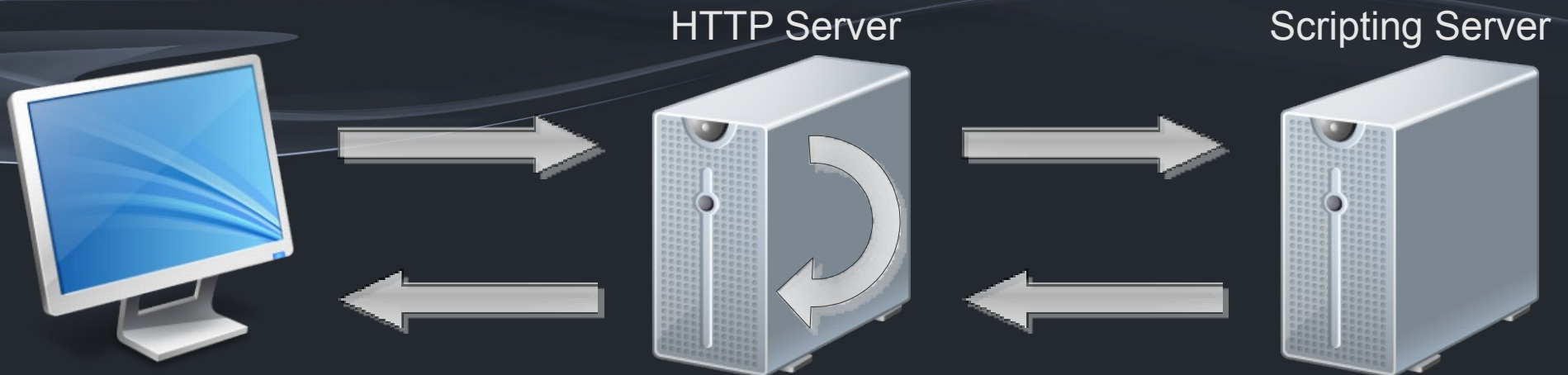
www.aan.com/go/home

209.98.38.134/go/home

Basic Web Server

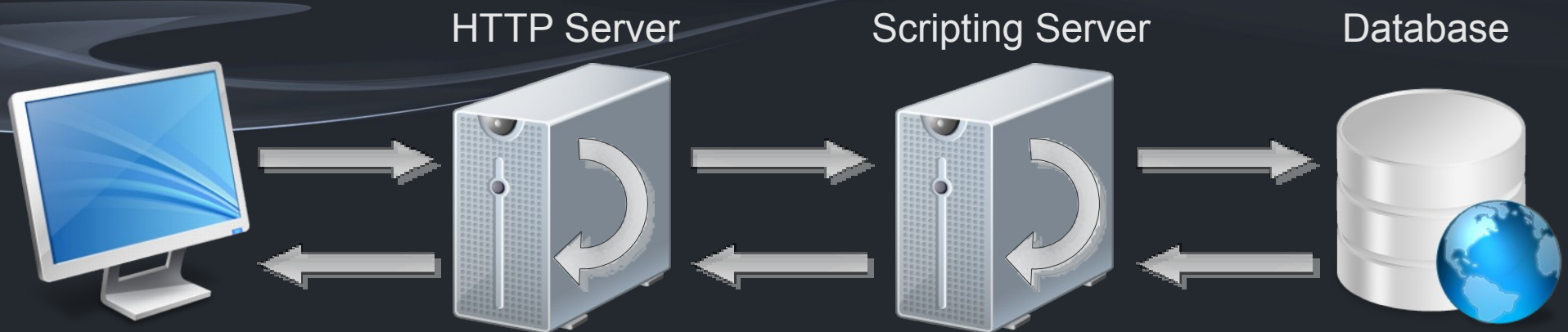- Apache
- IIS (Internet Information Services)

HTTP Server

HTTP

Server-Side Scripting

- PHP (Hypertext Preprocessor)
  originally Personal Home Page

- ColdFusion

- Perl

- Python

HTTP Server

Scripting Server

Database

- Microsoft SQL Server
- MySQL
- Oracle

HTTP Server   Scripting Server   Database

Client-Side Scripting

Client-side scripts are processed by the client (web browser). This means the programmer has very little control of the environment running the script, resulting in varied user experience.

- JavaScript

- VBScript

  - Limited to Microsoft products like Internet Explorer
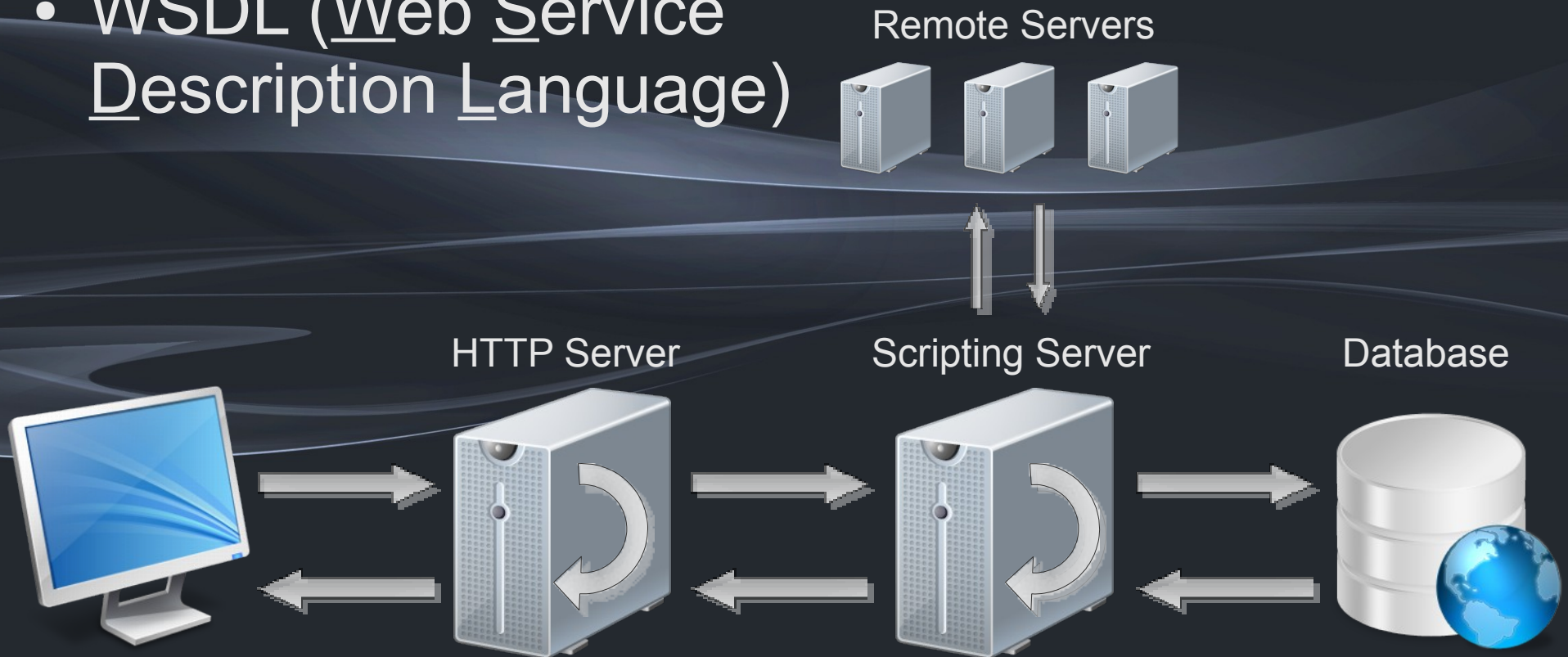
Run-time Scripting

Programming run-time applications requires that a compatible run-time environments be installed on the client machine and all code must be compiled each time changes are made.

- Flash (ActionScript)
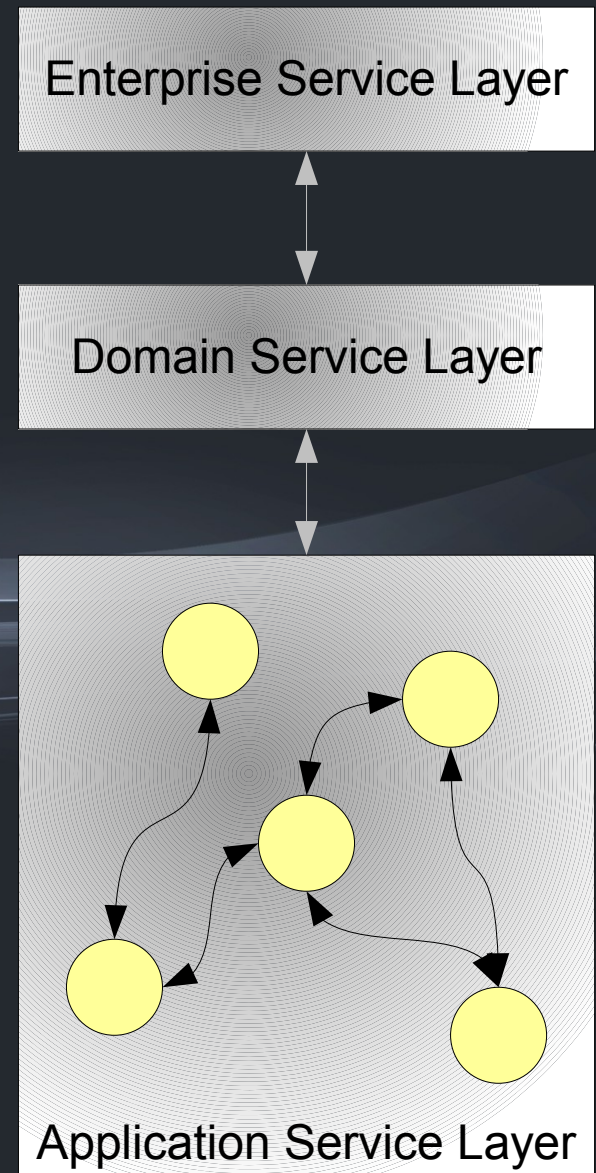- Silverlight (.NET)
- Java

Web Services

- XML (Extensible Markup Language)
- SOAP (Simple Object Access Protocol)
- WSDL (Web Service Description Language)

Remote Servers

HTTP Server   Scripting Server   Database

SOA (Service Oriented Architecture)

a flexible set of design principles used during the phases of systems development and integration. A deployed SOA-based architecture will provide a loosely-integrated suite of services that can be used within multiple business domains.

AJAX

- Asynchronous JavaScript and XML

- A method of making HTTP requests without leaving the current page.

- Allows the developer to create very powerful and user friendly applications

CSS

- Cascading Style Sheet

- Used to globally define visual appearance of HTML content.

- Selectors (Elements, IDs, Classes)

- Properties

```
Element -  { TABLE {
Property - {   background-color: #FF0033;
               margin-top: 20px;
             }
ID -       { #CalendarWidget {
               border: 1px solid black;
             }
Class -    { .important-word {
               color: #FF0000;
             }
```

Questions?

Frameworks