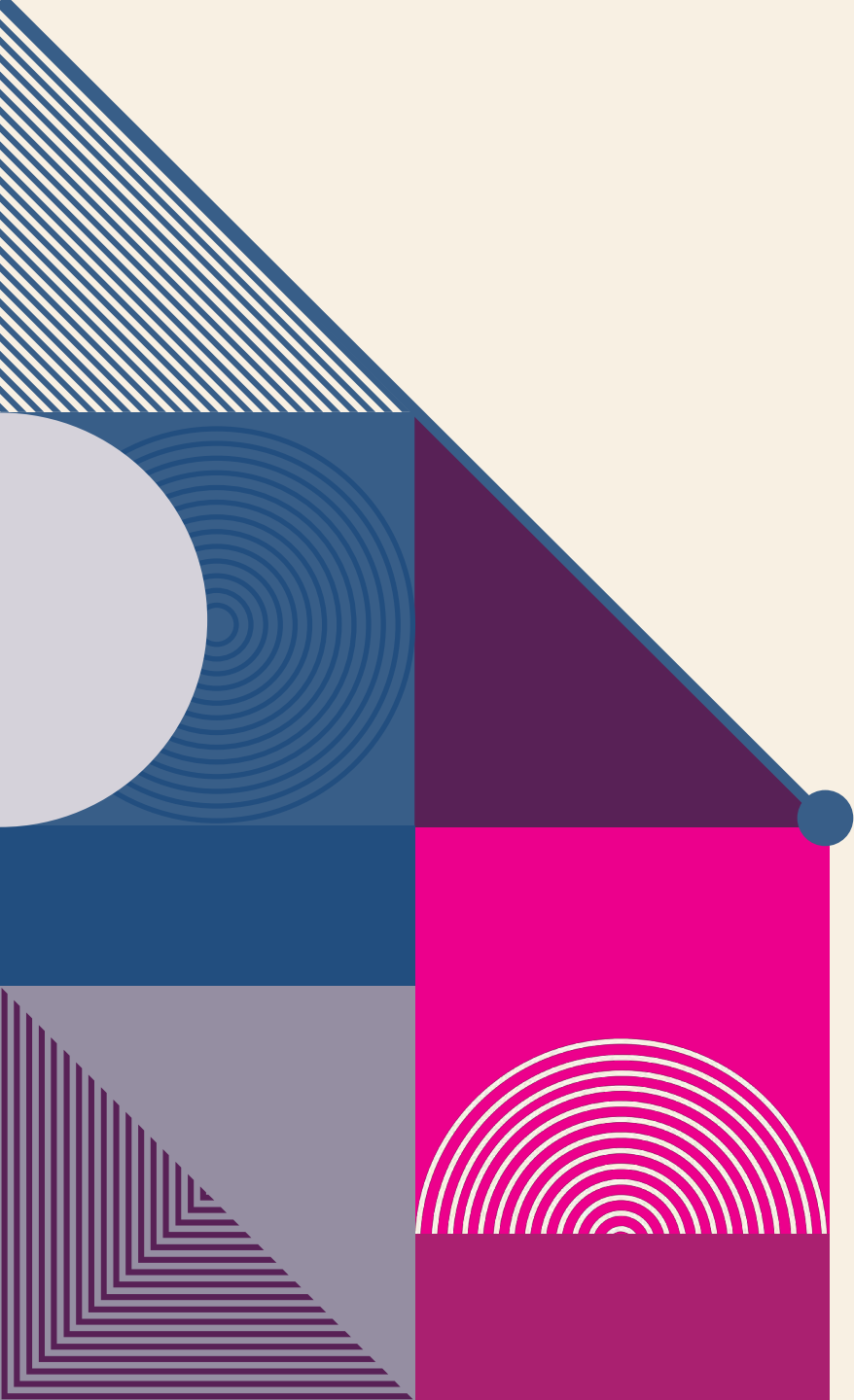




TURBOCHARGED GOLANG

Chidambaram G S (Chids)

Utsav Gupta



AGENDA

Introduction

History and the Current State of the Web

Hotwire and Turbo

Demo

\$ WHOAREWE

- Senior Technologists at Infosys.
- Worked in various domains like identity and access management, platform engineering, and AdTech.
- Co-leaders of Gophers Guild at Infosys.



GOPHERS GUILD

- Golang user group at Infosys.
- Consultants to the wider organization on everything Go.
- Share ideas and build accelerators.

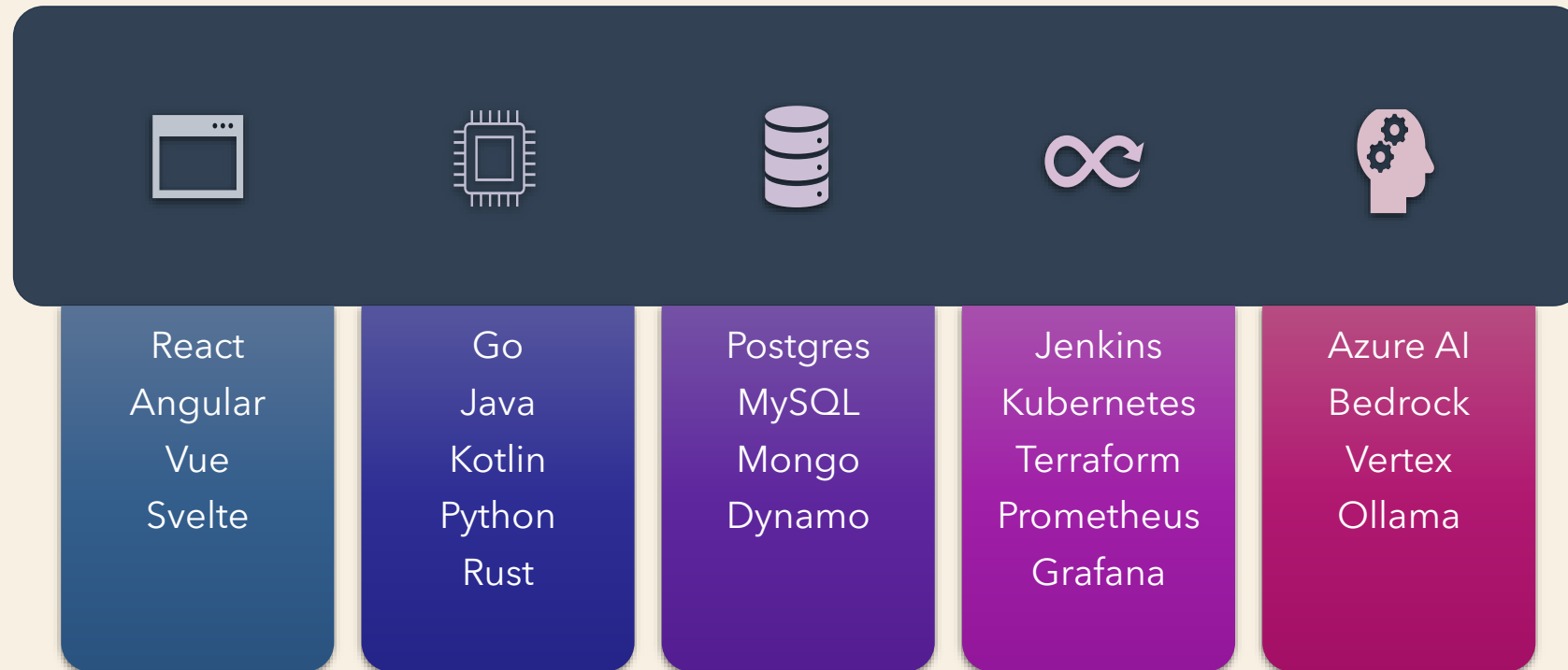


ACCELERATORS

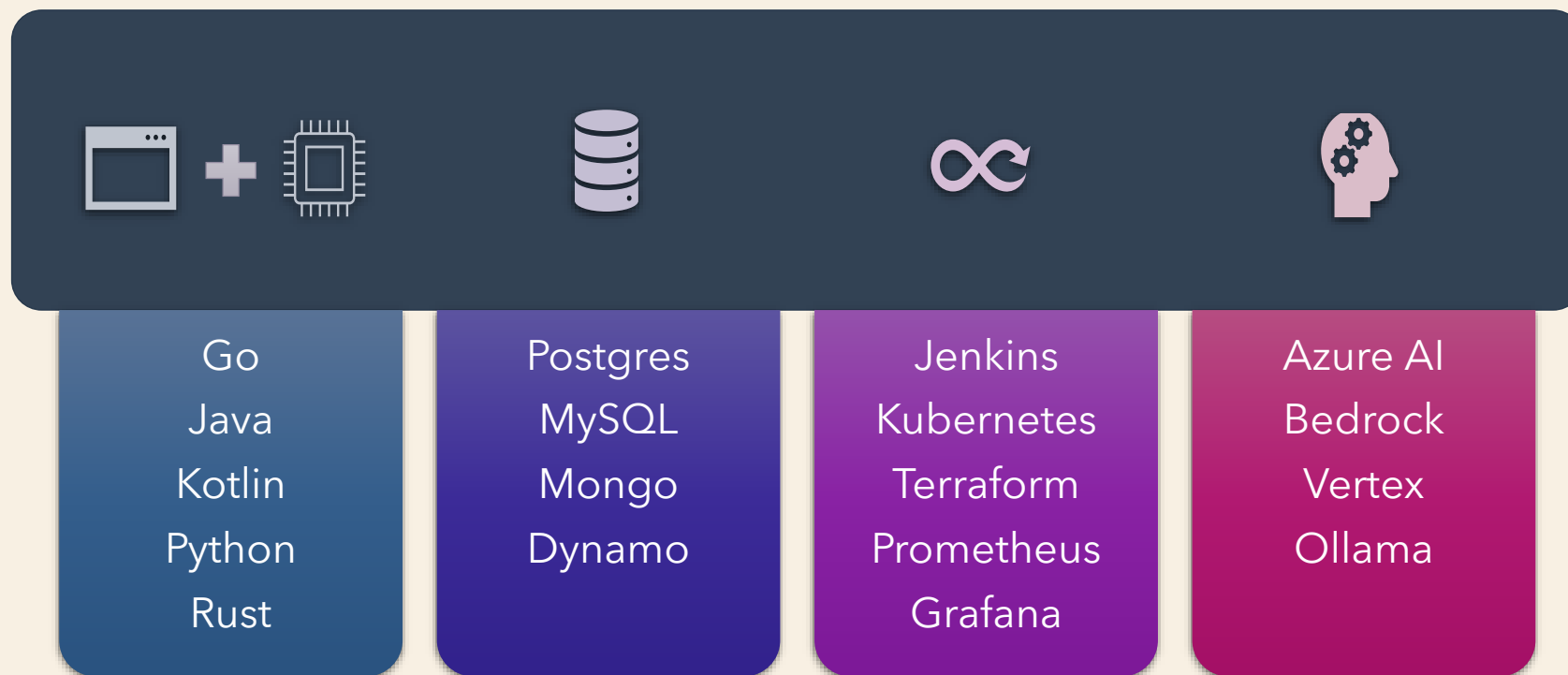
- Team should be agile.
- Starting big reduces velocity.
- Make lives easier and let the Gophers do what they do best.
- Side projects should be fun.



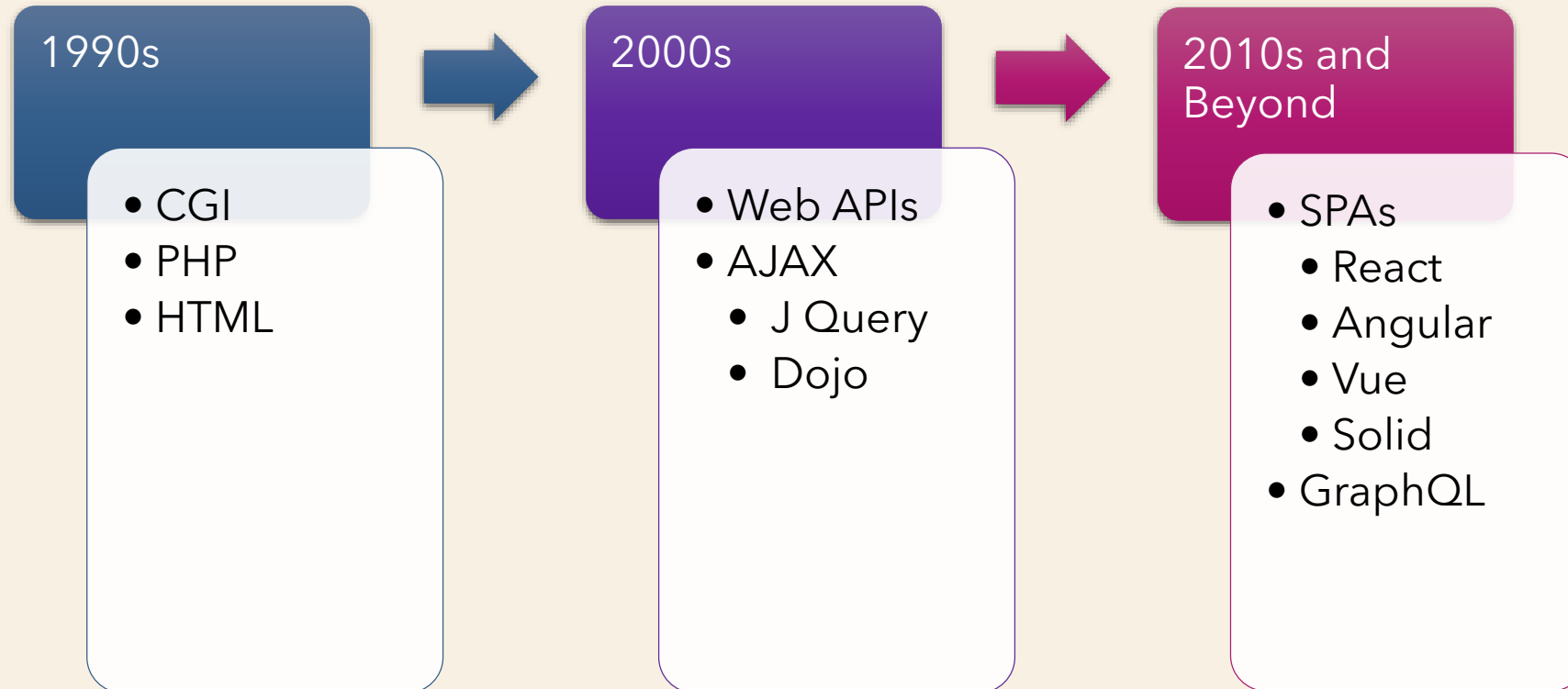
MODERN TECH STACK



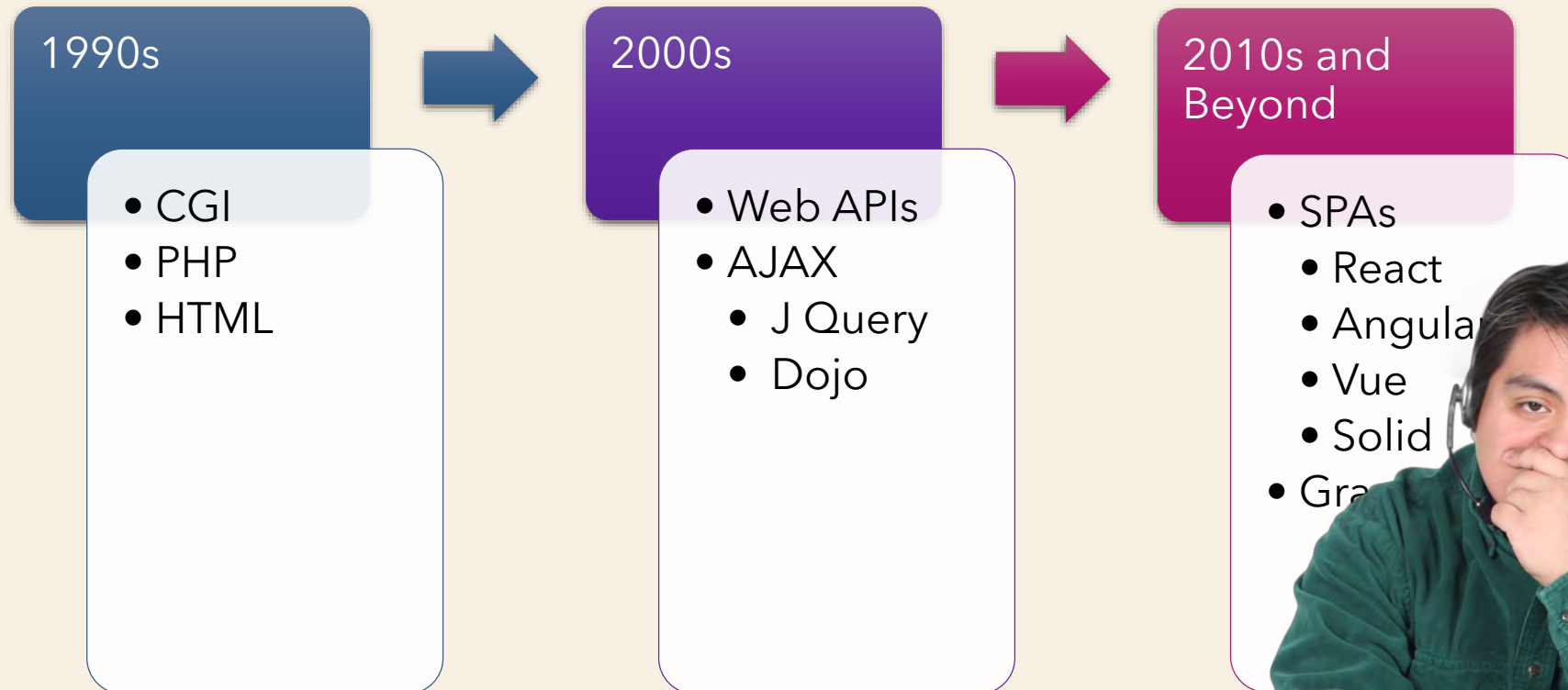
MODERN TECH STACK



EVOLUTION OF THE WEB



EVOLUTION OF THE WEB



CAN WEB DEVELOPMENT BE FUN AGAIN?



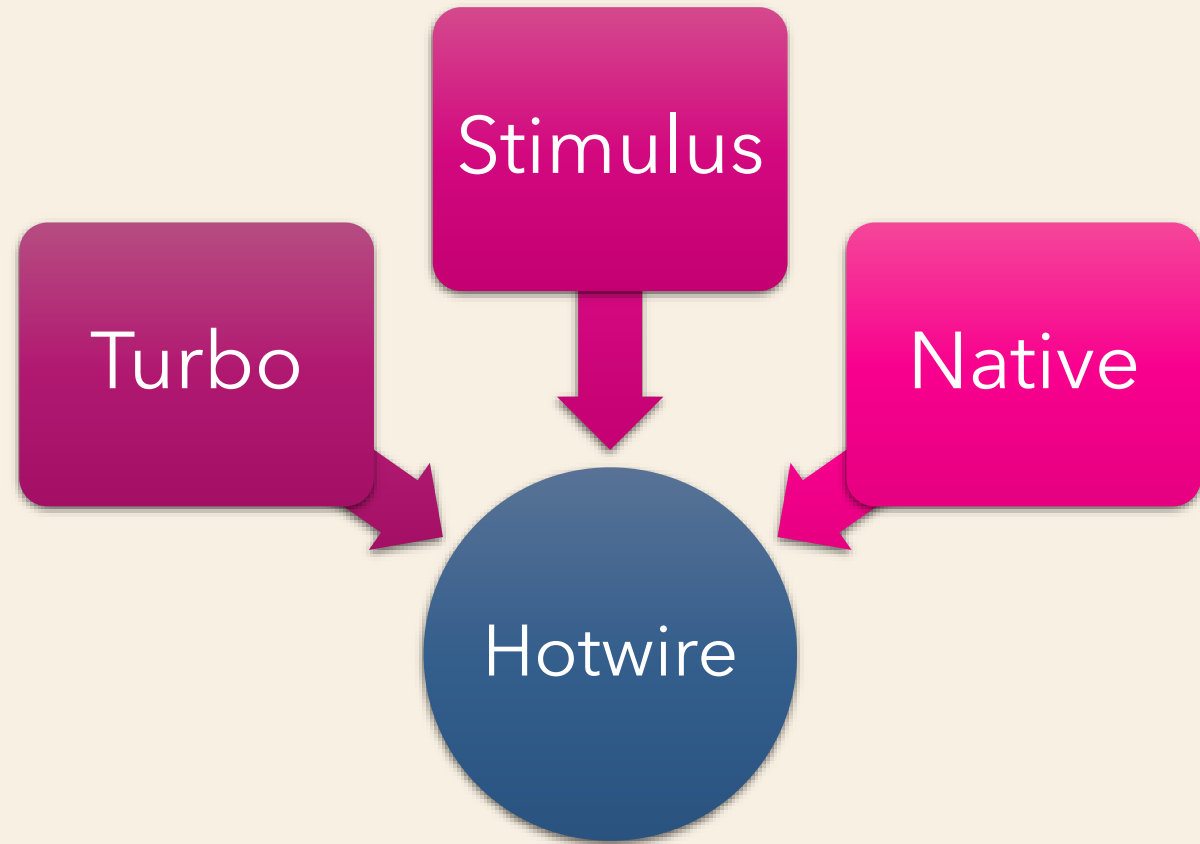
ROCA STYLE GUIDE

- Resource-Oriented Client Architecture.
- Recommendations for Web Application Frontends.
- Unobtrusive JavaScript.
- Progressive Enhancements.
- POSH (Plain Old Semantic-HTML).

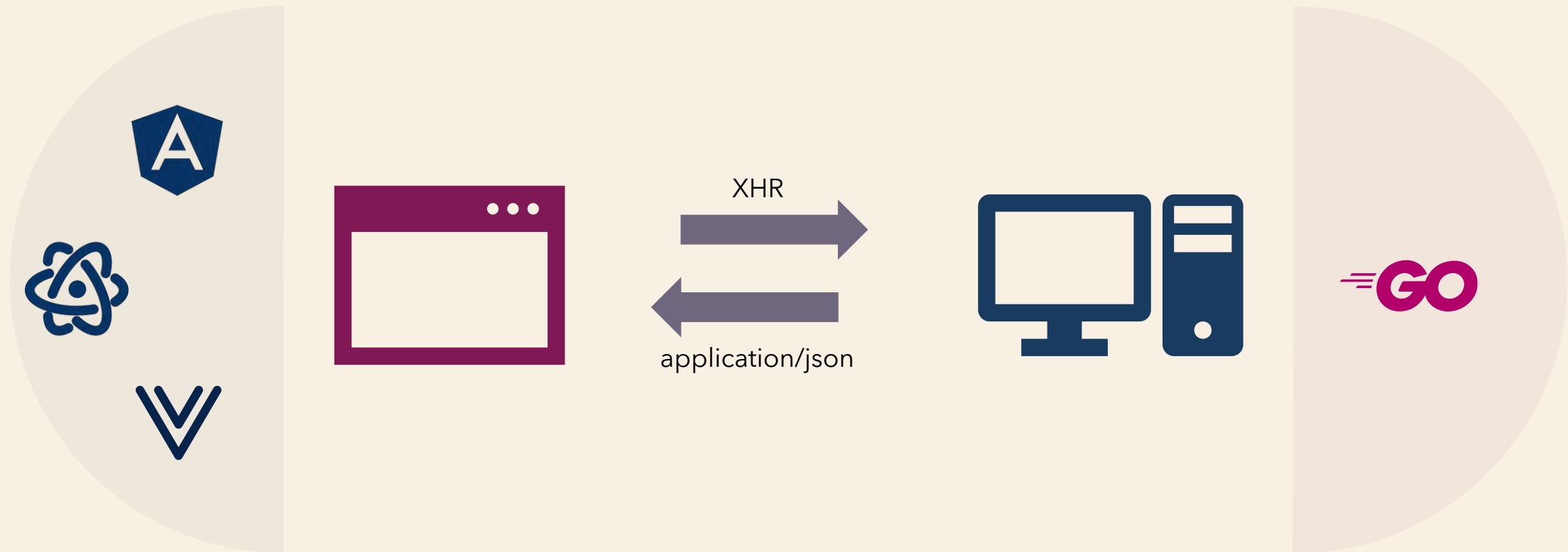


HOTWIRE

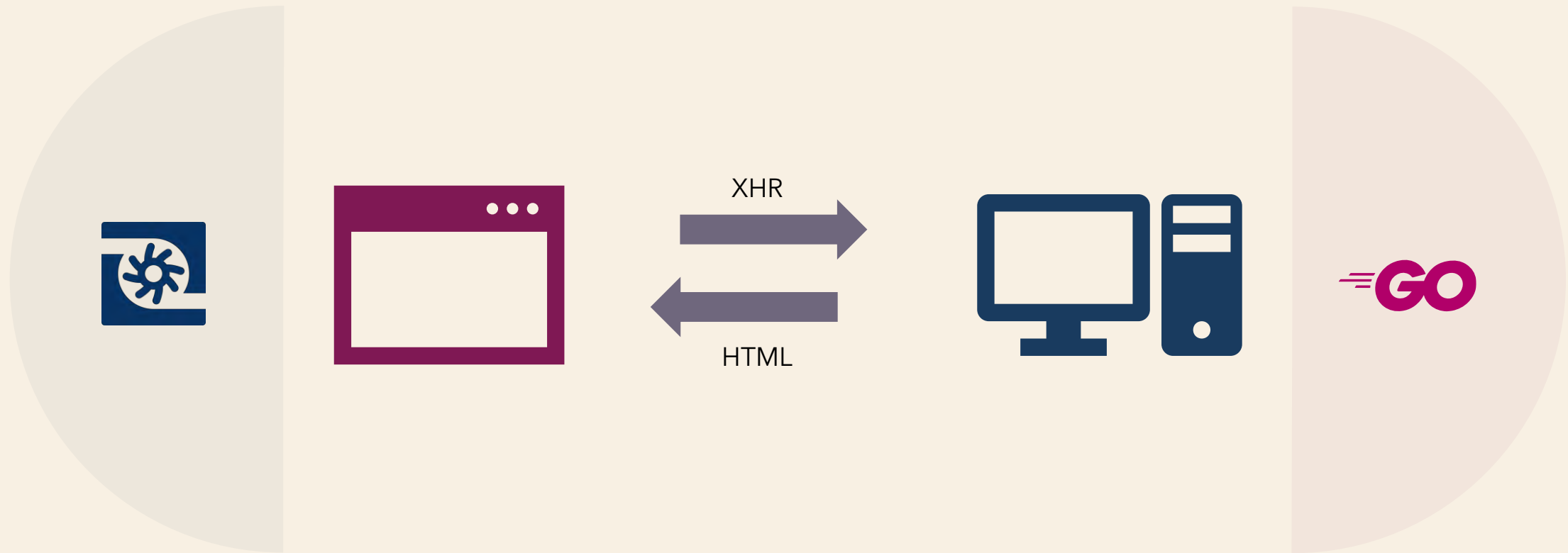
- HTML Over The Wire.
- Toolkit based on the POSH pattern.
- Part of the Rails ecosystem.



SPA



HOTWIRE



TURBO FRAMES

```
<h1> Welcome to the Hotwire Demo</h1>
```

```
<turbo-frame id="message">  
</turbo-frame>
```

```
<form action="/greet" method="post" data-turbo-frame="message">  
  <label for="name">Name:</label>  
  <input type="text" id="name" name="name">  
  <input type="submit" value="Greet">  
</form>
```

TURBO FRAMES

```
<h1> Welcome to the Hotwire Demo</h1>
```

```
<turbo-frame id="message">  
  <p>Hello, John Doe!</p>  
</turbo-frame>
```

```
<form action="/greet" method="post" data-turbo-frame="message">  
  <label for="name">Name:</label>  
  <input type="text" id="name" name="name">  
  <input type="submit" value="Greet">  
</form>
```


TURBO STREAMS

```
<h1> Welcome to the Hotwire Demo</h1>  
  
<div id="message"></div>  
  
<form action="/chat" method="post">  
  <label for="message">Message:</label>  
  <textarea id="message" name="message"></textarea>  
  <input type="submit" value="Send">  
</form>
```

TURBO STREAMS

```
<h1> Welcome to the Hotwire Demo</h1>
<div id="messages">
  <p>User: Can you generate the transaction report?</p>
</div>
<form action="/chat" method="post">
  <label for="message">Message:</label>
  <textarea id="message" name="message"></textarea>
  <input type="submit" value="Send">
</form>
```

TURBO STREAMS

```
<h1> Welcome to the Hotwire Demo</h1>
<div id="messages">
  <p>User: Can you generate the transaction report?</p>
  <p>Bot: Sure. Let me gather the details.<p>
</div>
<form action="/chat" method="post">
  <label for="message">Message:</label>
  <textarea id="message" name="message"></textarea>
  <input type="submit" value="Send">
</form>
```

TURBO STREAMS WS + SSE

```
<h1> Welcome to the Hotwire Demo</h1>
```

```
<div id="messages">
```

```
  <p>User: Can you generate the transaction report?</p>
```

```
  <p>Bot: Sure. Let me gather the details.<p>
```

```
  <p>🔔 Notification: The pdf can now be downloaded.</p>
```

```
</div>
```

```
<form action="/chat" method="post">
```

```
  <label for="message">Message:</label>
```

```
  <textarea id="message" name="message"></textarea>
```

```
  <input type="submit" value="Send">
```

```
</form>
```



An abstract geometric composition on the left side of the slide. It features a grid of squares and rectangles filled with various patterns and colors. The top-left square is bright pink with white concentric semi-circles. The square below it is grey. The square to the right of the grey one is white with a diagonal pattern of thin pink lines. The square below the white one is dark blue. The top-right square is white with a diagonal pattern of thin pink lines. The square below the white one is dark blue. The square to the right of the dark blue one is dark purple. The square below the dark purple one is dark blue. A horizontal line with a small white circle at its end extends from the top-left square towards the center of the slide.

DEMO

THE JOURNEY SO FAR

- Adopted the ethos of progressive enhancement and unobtrusive Javascript.
- One repo and one pipeline for the application.
- Almost 50% reduction in development effort.
- Happy Gophers!



An abstract geometric design on the left side of the slide. It features a dark blue background with various geometric shapes and patterns. A white circle is positioned near the top left. Below it, a light blue semi-circle is visible. To the right of the semi-circle, there is a pink triangle with diagonal lines. Below the semi-circle, there is a pink square with a pattern of concentric lines. To the right of the square, there is a light blue triangle. Below the square, there is a pink triangle. To the right of the triangle, there is a dark blue triangle. The overall design is modern and minimalist.

THANK YOU



REFERENCES AND LINKS

- [ROCA: Resource-oriented Client Architecture](#)
- [HTML Over The Wire | Hotwire](#)
- [Stimulus 3 + Turbo 7 = Hotwire 1.0](#)
- [Chids-gs/go-chat-turbo](#)