



## Secrets of the Fire Swamp

SharePoint Framework Simplified

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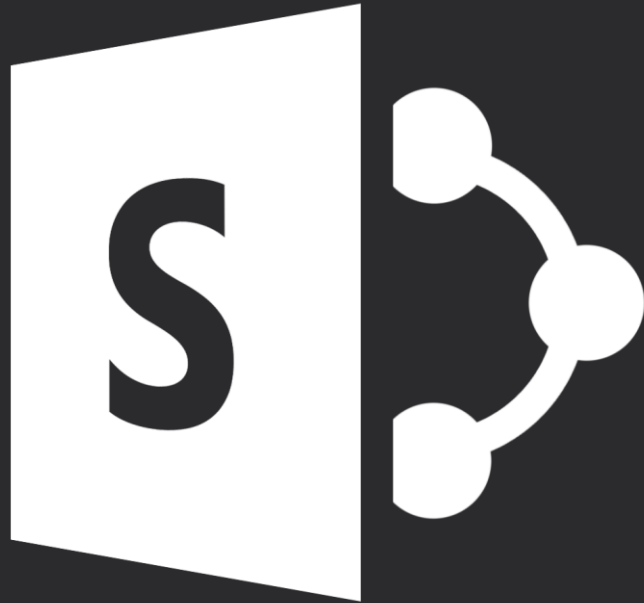
# Secrets of the Fire Swamp

*SharePoint Framework Simplified*

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# SharePoint Framework

Love it, like we love it and there will be joy!!!!



## SharePoint Framework

01

### **Page Based Execution**

Web Part code will execute directly on the page, no more iFrames!!!!

02

### **Responsive Design Friendly**

Better control of the HTML Output, allows us to ensure that our HTML is responsive.

03

### **Custom Web Part Properties**

Build configurable Web Parts providing a plethora of customized properties

04

### **Open Source Tooling & Offline Dev**

Utilize a collection of Open Source technologies, libraries and frameworks.

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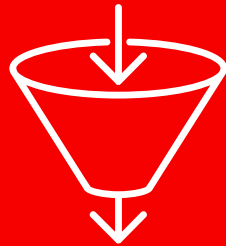
“you can't know where  
you're going until you  
know where you've been”

# History of SharePoint Web Part Development



## List View WP

List View Web Parts provide quick display of list contents on a SharePoint Page.



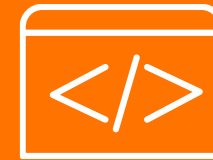
## CQWP

Using XSL, Content Query Web Parts display data from SharePoint Lists and Libraries allowing the output of custom HTML



## CSWP

Display Templates could be layered to consume SP Search content and display the results using custom HTML



## SPFx

Using a collection of Open Source libraries, frameworks and tools, Web Parts can be developed in a variety of ways using client side technologies.

# Content Query Web Parts

## XSL Transformations (XSLT)



### Easily Configurable

User can select scope, filter, sort



### XSLT Markup & Tangled Code

Non-friendly development pattern



### Performance Unfriendly & Limited Scope

Non Cross Site Collection



# **INCONCEIVABLE!**

**!!!!**

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# Content Search Web Parts

## SharePoint Display Templates



Better then XSLT & Performance Friendly  
No more confusing XSLT



Non-Standard Development  
Commented out JS – Pseudo Code



Tangled Code Control Structure  
Spaghetti Business Logic & Presentation Layer



# **INCONCEIVABLE!**

**!!!!**

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# SharePoint Framework Web Parts

## SharePoint Framework Tool Chain



No more XSLT or Pseudo JS  
Uses real JavaScript Code Methodologies



Offline Development  
No SP site needed for majority of development



Tooling uses Open Source  
Many, Many, MANY libs and frameworks available

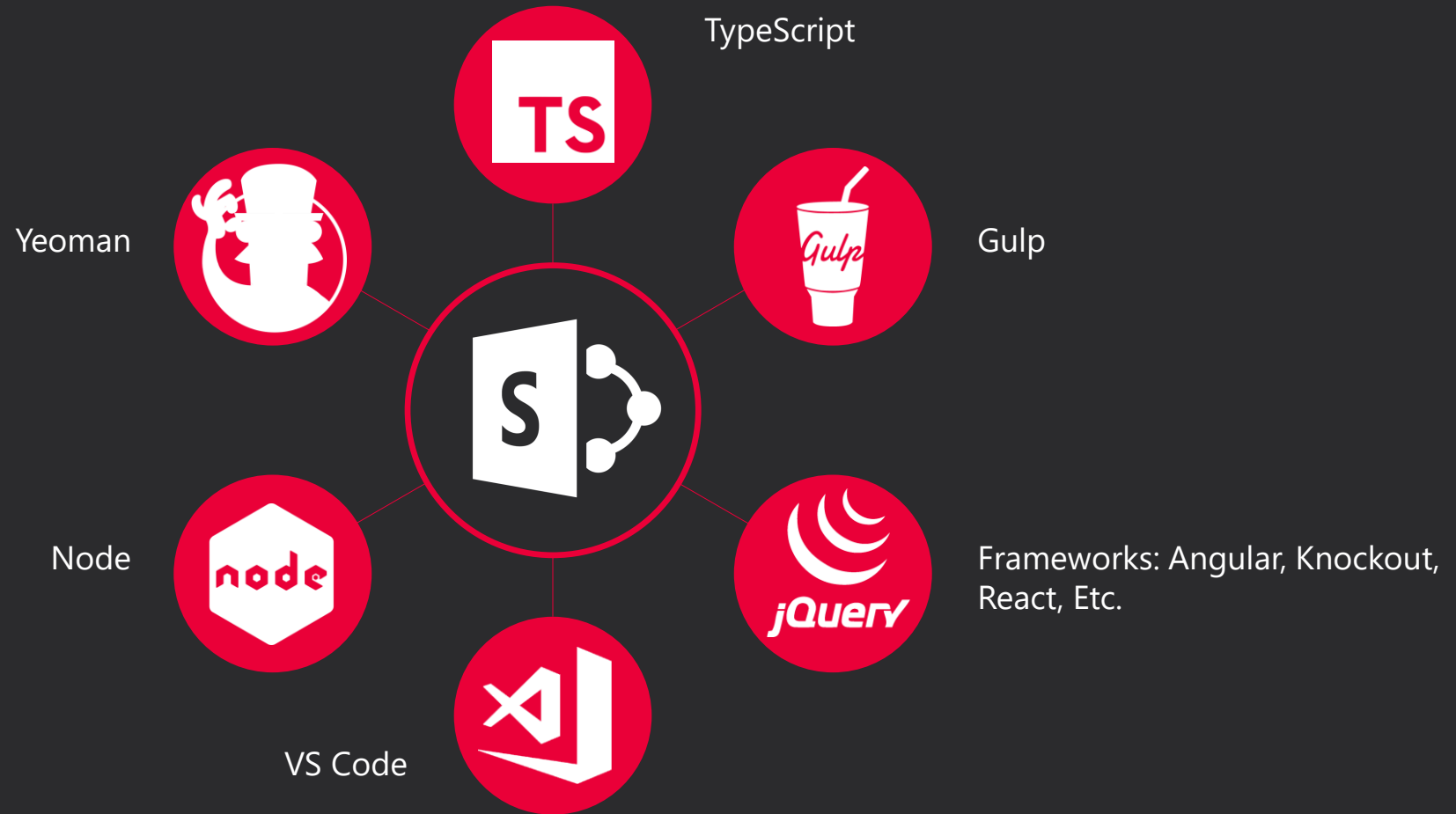


# ***Battle of Wits!!!***

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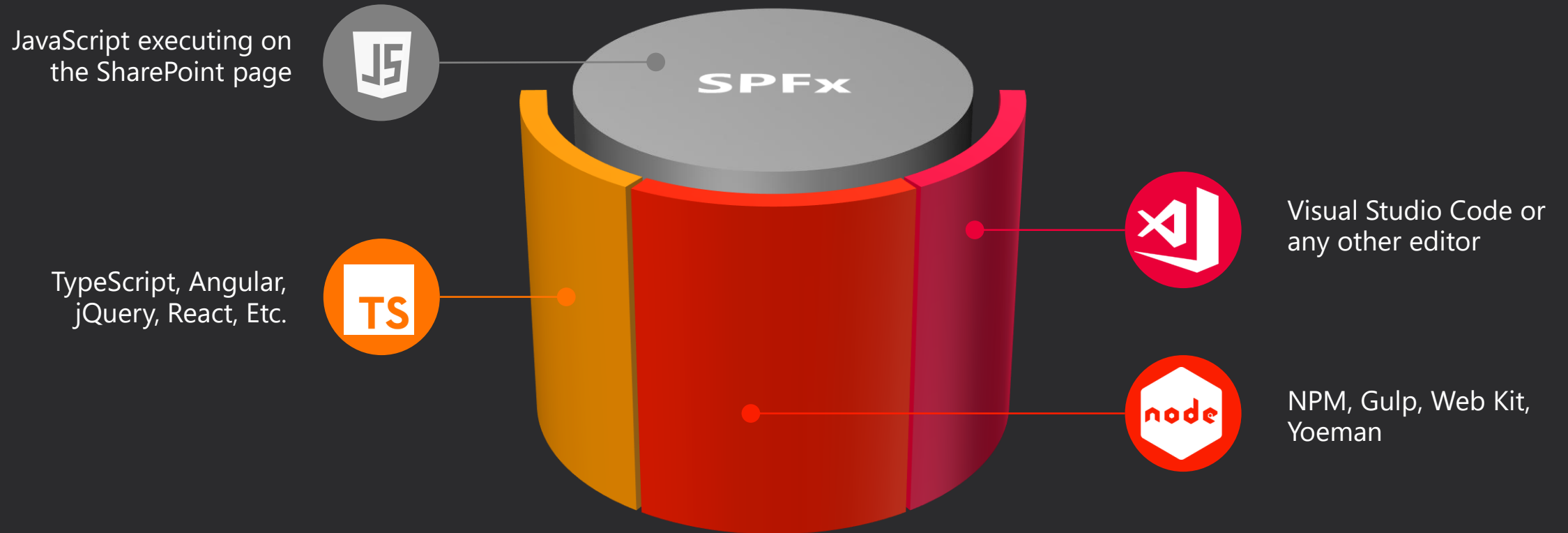


# SharePoint Framework Tool Chain



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# SharePoint Framework Core Concept



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# SharePoint Framework Web Part Core Concepts

## 01 – TypeScript

### **Strongly Type JavaScript:**

Provides a more dependable development process. Ultimately it will compile or “Transpile” TS into pure JavaScript

## 02 – Code Bundling

### **Transpiled JavaScript Bundled:**

All development logic, JavaScript Functions and ***optionally included libraries*** or frameworks are bundled into a single file.

## 03 – External Assets

### **Web Part JavaScript Assets are stored Externally:**

In addition to Web Part “App” package, the bundled JS and any other dependencies are stored and referenced externally.

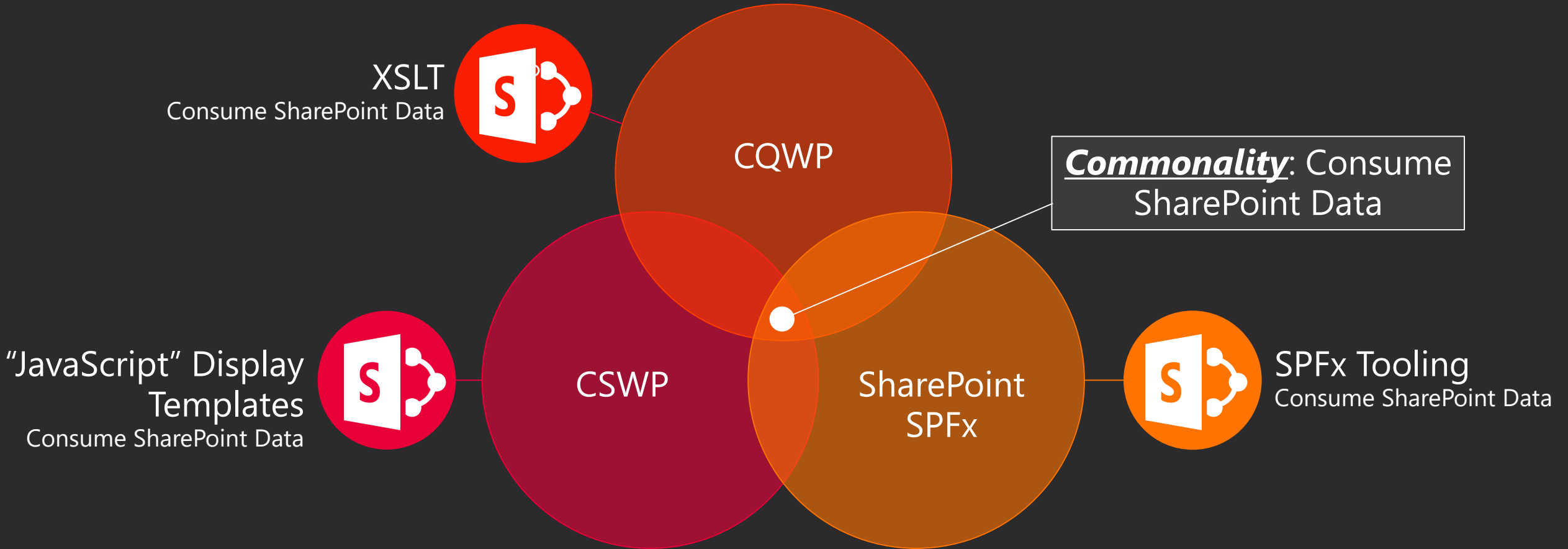
## 04 – JavaScript

### **JavaScript for the Win:**

No matter which aspects of the SharePoint SPFx we choose to adopt, everything is executed as JavaScript.

JAVASCRIPT, JAVASCRIPT, JAVASCRIPT!!!!

# Legacy and Modern Web Part Development



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# Development Methodology Requirements



Maintainable

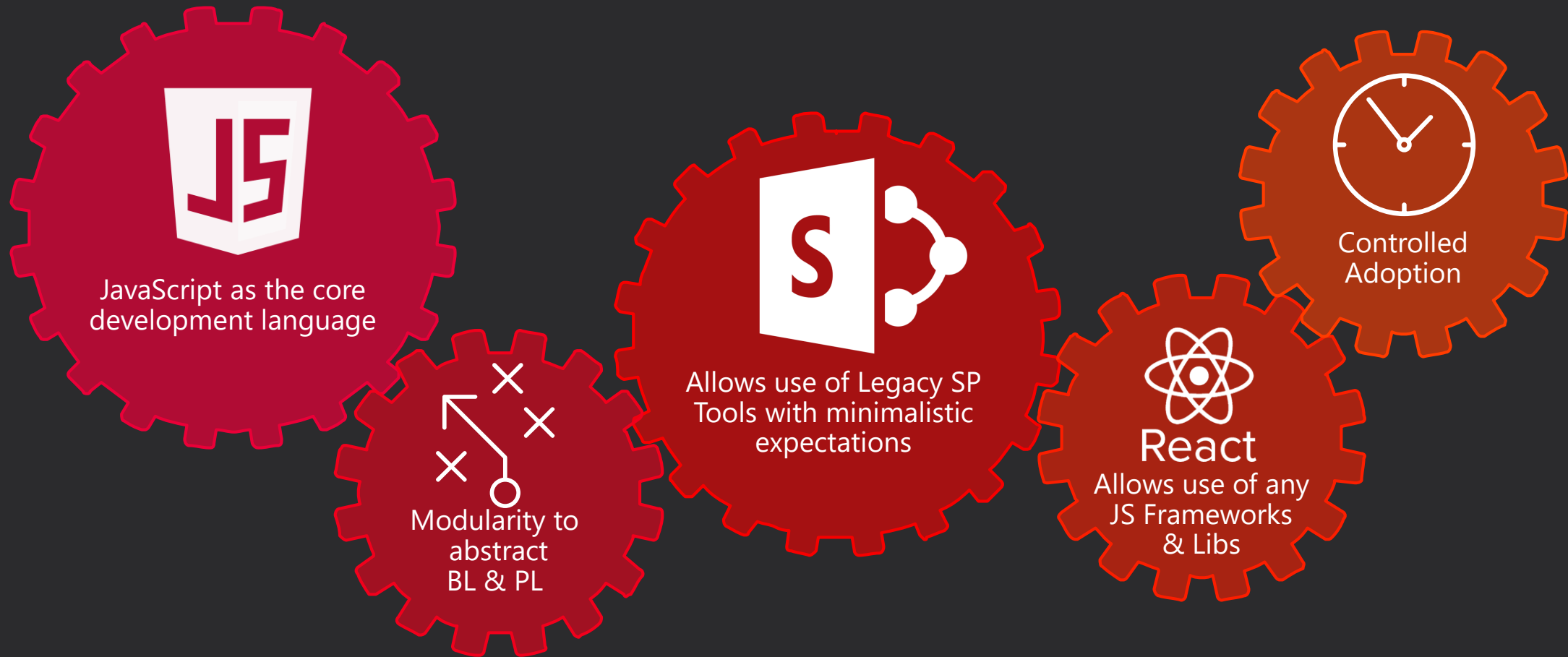


Configurable



Organized

# Development Methodology Results



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# Content Query Web Part Demo

# SharePoint Framework Web Part Demo



# Summary