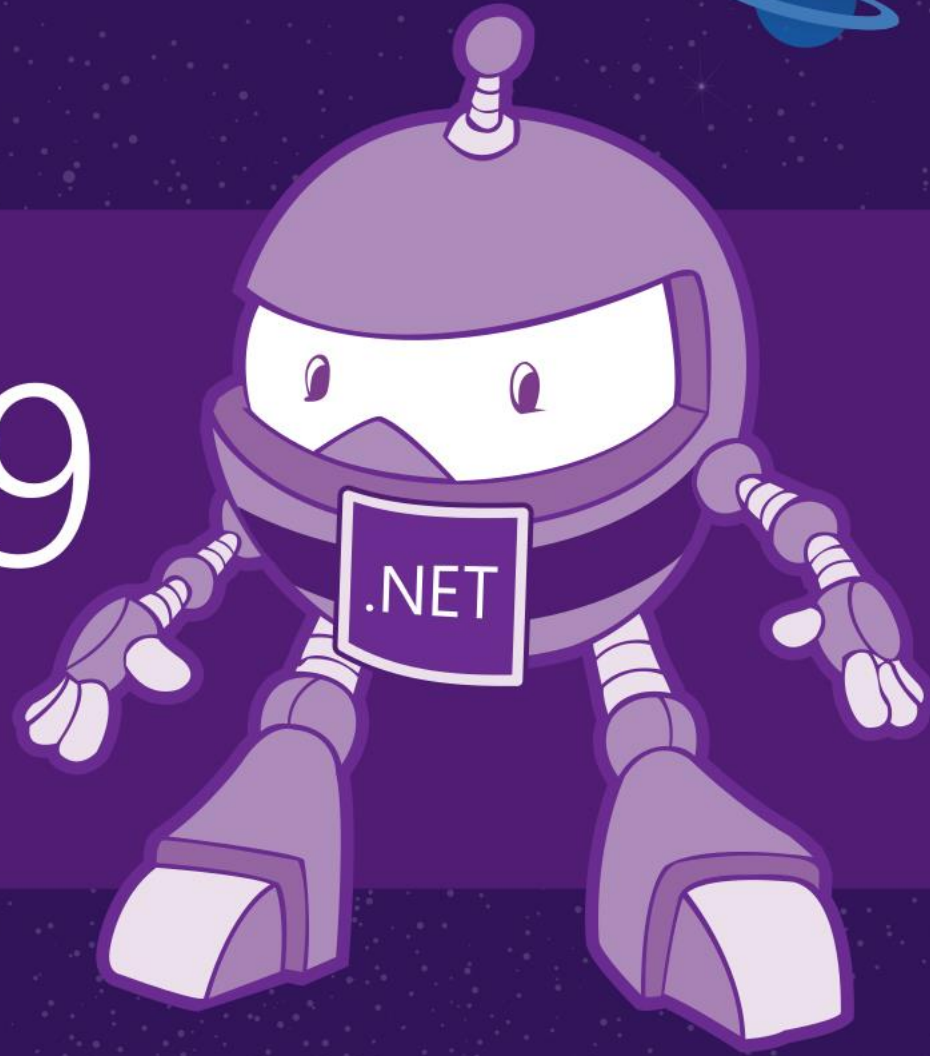


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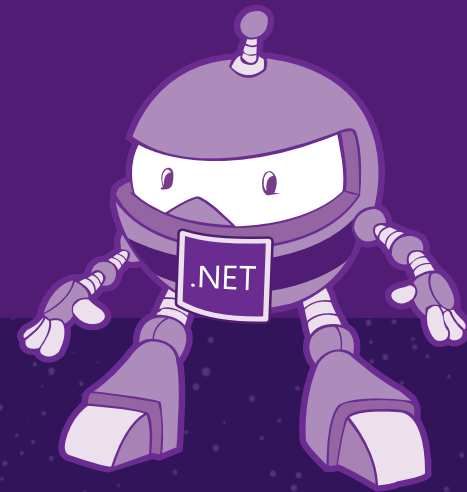
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AngleSharp - .NET Headless Browsing

Florian Rappl
Solution Architect @ smapiot



About Florian Rapp

- Microsoft MVP for Developer Technologies
- Contributor for multiple open-source projects
- Enthusiastic article writer and speaker
- Solution Architect for distributed web applications

smapiot



Agenda

- What is AngleSharp?
- HTML5 – By Example
- Extensions
- Outlook



AngleSharp

What is AngleSharp?

.NET



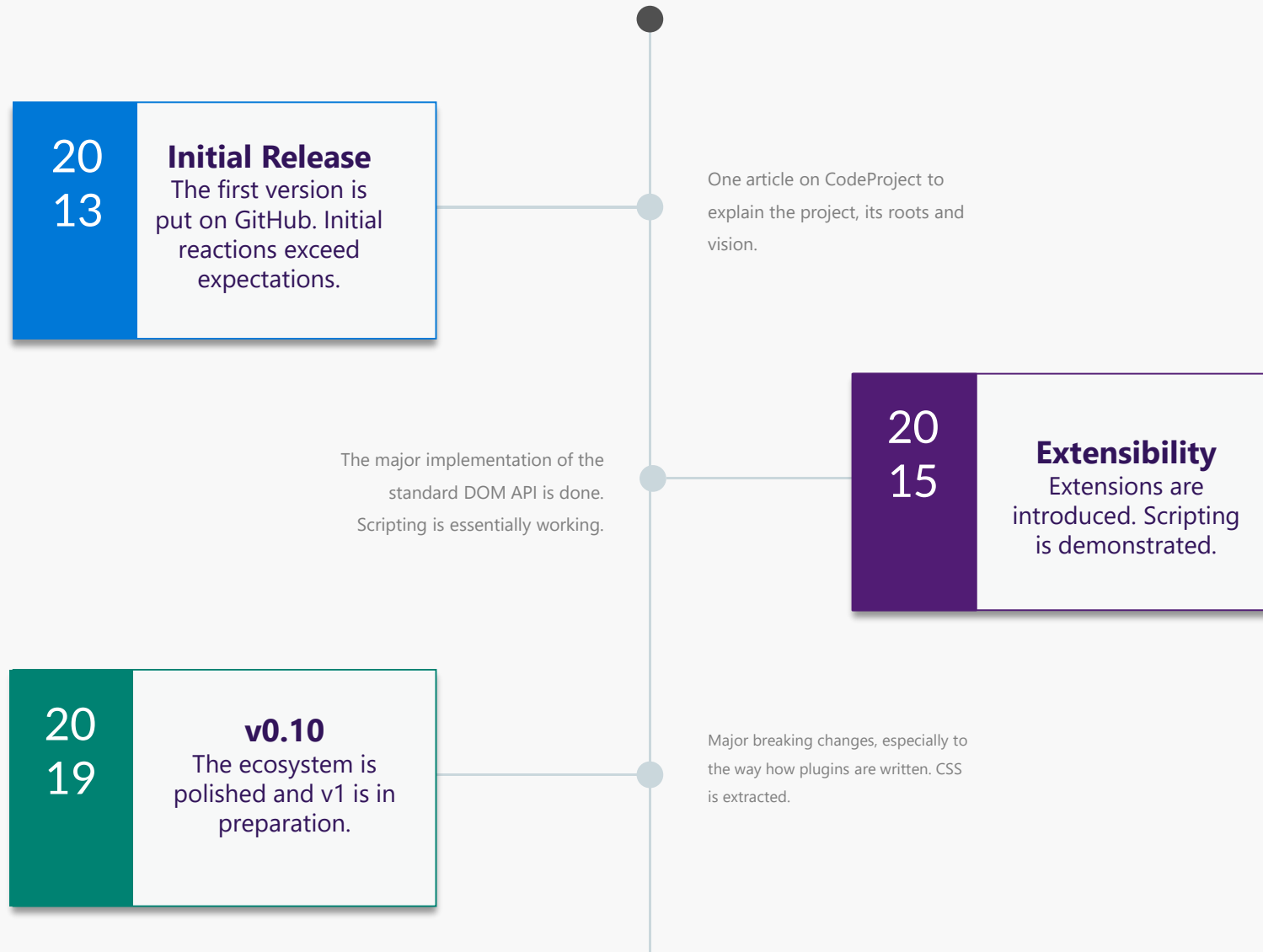
In a Nutshell

- A library for parsing HTML
- The core of a browser engine
- Includes full stream processing
- Collection of web utilities
- Can handle HTML, CSS, simple JS, ...
- Easy to extend and customize



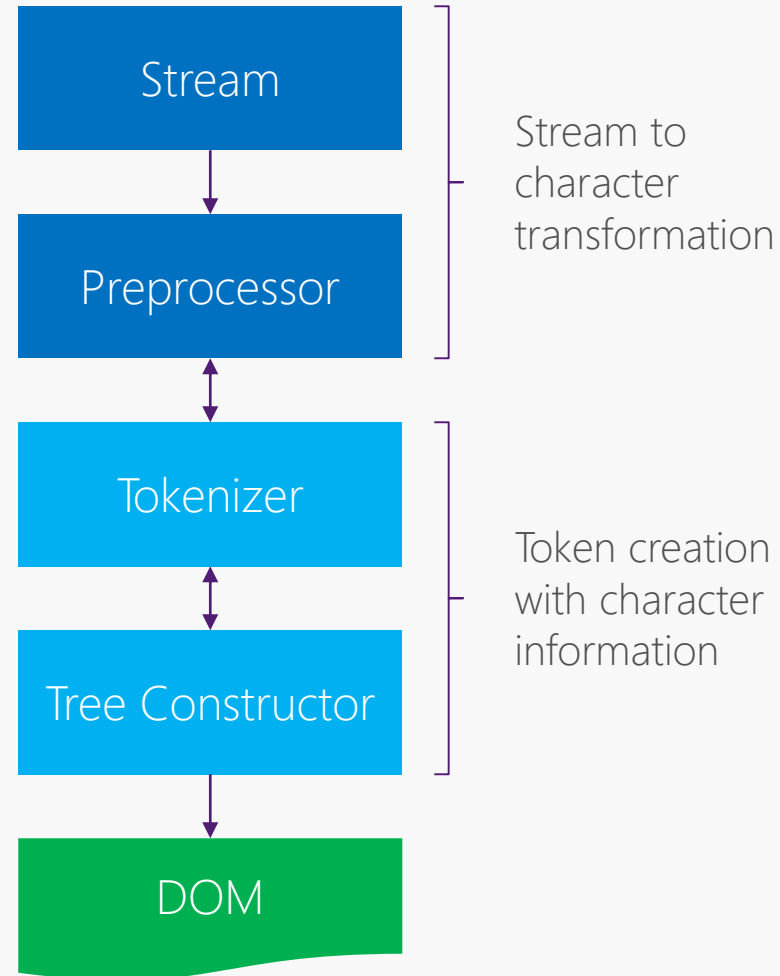
AngleSharp

History of the Project



AngleSharp

Parsing Stages of HTML



HTML5 – By Example



Automatic Scaffolding

```
<!DOCTYPE html>
```

```
<meta charset=utf-8>
```

```
<title>Sample Document</title>
```

```
<style>/* ... */</style>
```

```
<div id=app>Hello World!</div>
```

```
<script src="app.js"></script>
```

Element Completion and Insertion

```
<!DOCTYPE html>
```

```
<ul>
```

```
<li>First item
```

```
<li>Second item
```

```
<li>Third item
```

```
</ul>
```

```
<p>I can just write paragraphs ...
```

```
<p>...without ending them?!
```


HTML5 Error Correction.NET



<https://github.com/AngleSharp/AngleSharp.Demos.DotnetConf>

Extensions

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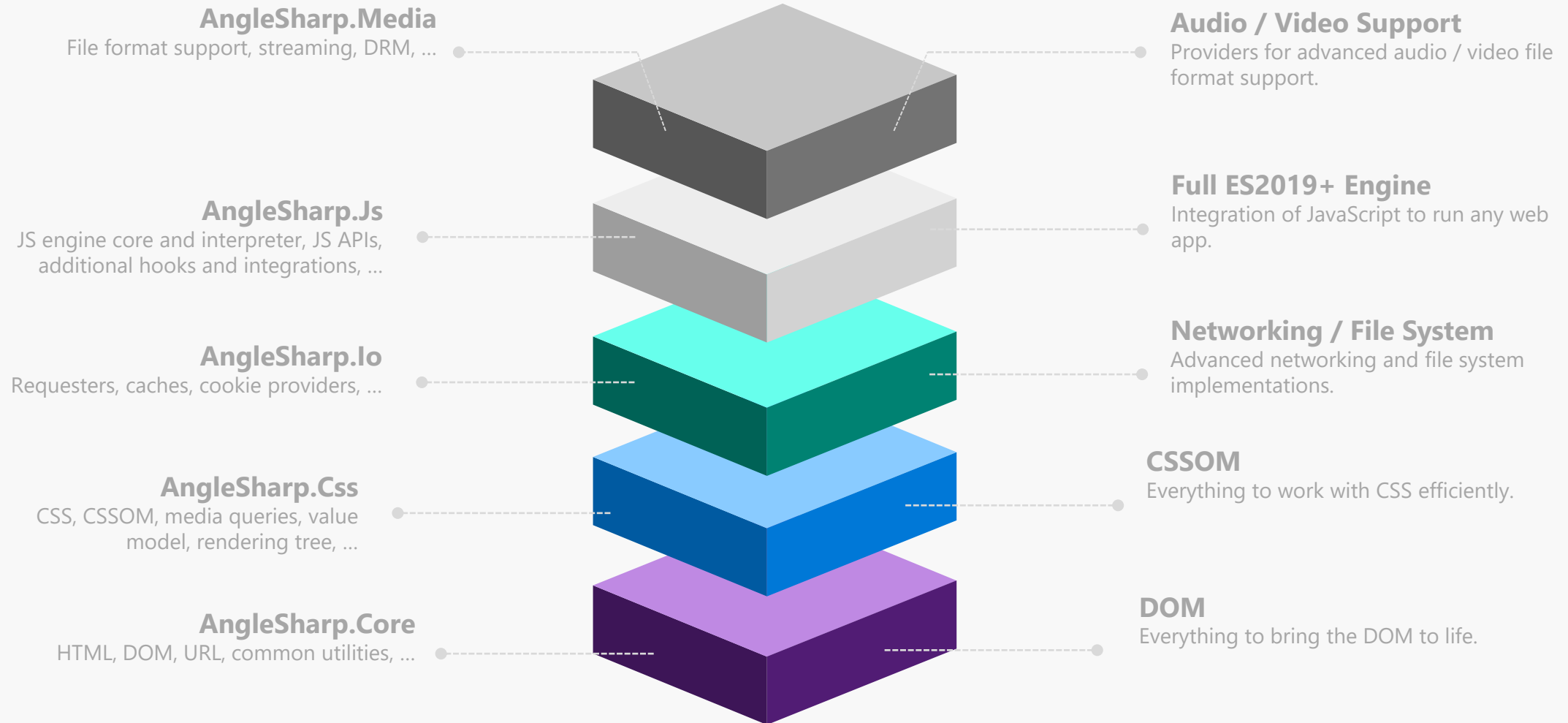
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AngleSharp Plugins



.NET



How about JavaScript?

```
var config = Configuration.Default.WithJs();  
var context = BrowsingContext.New(config);  
var source = @"<!DOCTYPE html>  
<title>Sample</title>  
<script>  
document.title = 'Simple manipulation...';  
document.write('<span class=greeting>Hello World!</span>');  
</script>";  
var document = await context.OpenAsync(m => m.Content(source));  
Console.WriteLine(document.ToHtml());
```

Scripting



.NET

<https://github.com/AngleSharp/AngleSharp.Demos.DotnetConf>

Outlook

.NET



Next Steps

AngleSharp.Core 1.0.0

Essentially conclude the work on the core layer.

More Helpers and Plugins

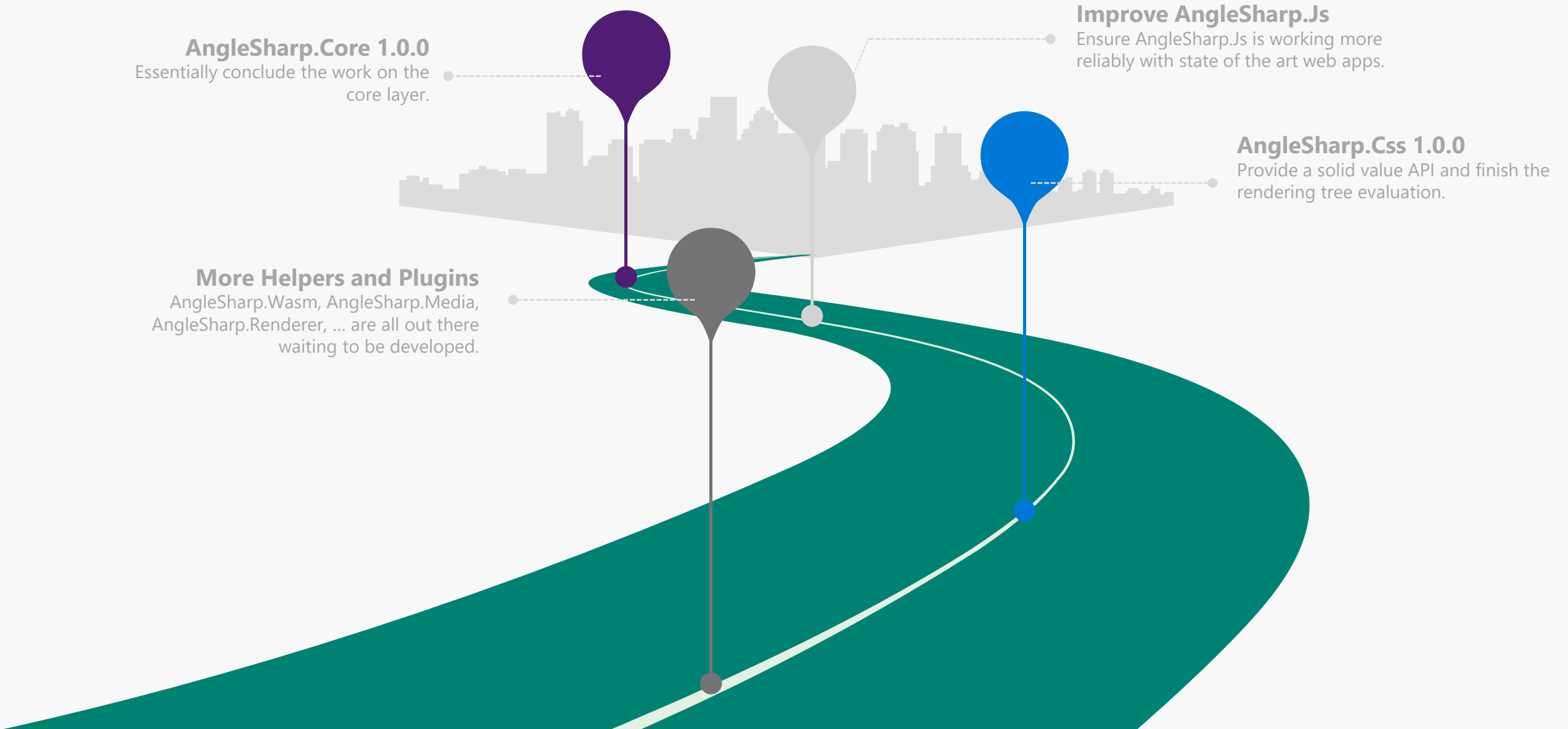
AngleSharp.Wasm, AngleSharp.Media, AngleSharp.Renderer, ... are all out there waiting to be developed.

Improve AngleSharp.Js

Ensure AngleSharp.Js is working more reliably with state of the art web apps.

AngleSharp.Css 1.0.0

Provide a solid value API and finish the rendering tree evaluation.



Thank you!

anglesharp.github.io

@FlorianRappl

github.com/FlorianRappl

