

SpringOne Platform by Pivotal.

Spring Tools 4 - Spring Boot Tooling für Eclipse, VSCode und Atom

Martin Lippert
@martinlippert

Our Mission

Support Spring developers around the globe
writing modern Spring applications

Introducing



Spring Tools 4

Spring Tools 4

All-new Spring tooling

- mostly implemented from scratch
- focused on Spring Boot and annotation-driven Spring app development
- lightweight and super fast
- IDE agnostic

Key areas

Super easy getting started experience

New Spring Starter Project

Service URL

Name

Use default location

Location

Type:
Packaging:

Java Version:
Language:

Key areas

Spring-aware smart code completion

```
55  
56 | @Value("${serv}")  
57 protected Long 🔧 server.address  
58 🔧 server.compression.enabled  
59 @Value("TeamSer 🔧 server.compression.excluded-user-a  
60 protected Long 🔧 server.compression.mime-types  
61 🔧 server.compression.min-response-si  
62 @Value("Getting 🔧 server.connection-timeout  
63 protected Long 🔧 server.context-parameters  
64 🔧 server.context-path  
65 @Value("Underst 🔧 server.display-name
```

Key areas

Ultra-fast navigating the source code

```
22  
23 import javax  
24  
25 /**  
26  * The entry  
27  * <p>  
28  * Main conf  
29  * here ensu  
30  * {@link Se  
31  */  
32 @SpringBootA  
33 @EntityScan  
34 @EnableJpaRe
```

#@/blog

- @/blog/ -- GET,HEAD sagan-site/src/main/java/sagan/blog/support
- @/blog.atom -- GET,HEAD sagan-site/src/main/java/sagan/blog/su
- @/blog -- (no method defined) sagan-site/src/main/java/sagan/bl
- @/blog/{year:\d+} -- GET,HEAD sagan-site/src/main/java/sagan/b
- @/blog/broadcasts -- GET,HEAD sagan-site/src/main/java/sagan/
- @/blog/broadcasts.atom -- GET,HEAD sagan-site/src/main/java/s
- @/blog/category/{category} -- GET,HEAD sagan-site/src/main/ja
- @/blog/{year:\d+}/{month:\d+} -- GET,HEAD sagan-site/src/mair
- @/blog/category/{category}.atom -- GET,HEAD sagan-site/src/n
- @/blog/{year:\d+}/{month:\d+}/{day:\d+} -- GET,HEAD sagan-si
- @/blog/{year:\d+}/{month:\d+}/{day:\d+}/{day:\d+} -- GET,HEAD s

Key areas

See live information from your running apps directly in your source code

```
1  package org.springframework.context.annotation.Bean
2
3  import
4  import Process [PID=14325, name= hello.Application ]:
5
6  @Conf Bean [id: superbean, type: hello.MySpecialService ] injected into:
7  public • Bean [id: myAutomaticallyWiredComponent, type:
8         hello.MyAutomaticallyWiredComponent ]
9  @Bean(name="superbean")
10 public MySpecialService specialService() {
```


Spring Tools 4 - Public Beta



**Spring Tools 4
for Eclipse**



**Spring Tools 4
for Visual Studio
Code**



**Spring Tools 4
for Atom IDE**

public beta available
<https://spring.io/tools4>

Demo Time

Recap

What we have seen

- boot dashboard
- ultra-fast navigation to Spring elements (@/, @+, @)
- live information from running apps (wiring reports, profiles)
- different editors / IDEs

Much more

What we have not seen

- additional specialized navigation (e.g. `@>` for functions)
- live information for property values (`@Value`)
- code completions (`@Value`, `@Scope`)
- code templates (`@...Mapping` methods)

Working on more

- specific navigation for Spring Data repositories, WebFlux definition
- support for annotations in class files
- maybe more editors / IDEs

Behind the scenes

Introducing a New Tooling Architecture

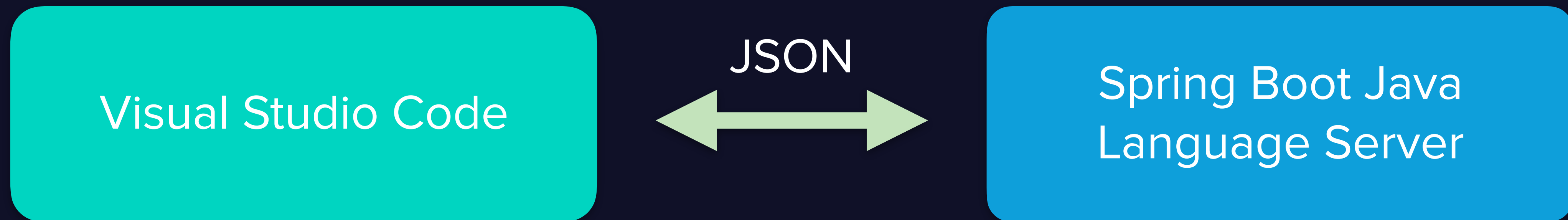
Spring Tools 4

- re-written from scratch
- IDE agnostic
- focused on supporting Spring

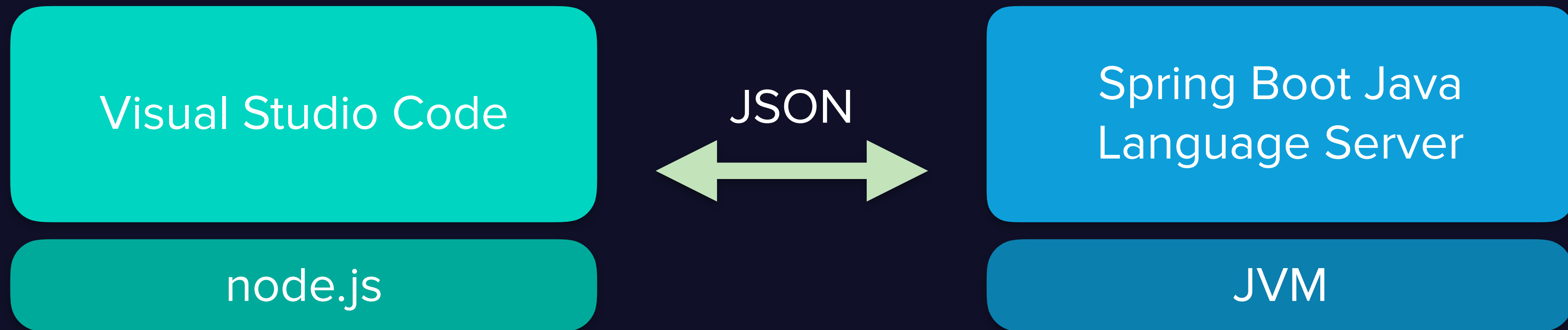
New tooling architecture

- adopting the Language Server Protocol

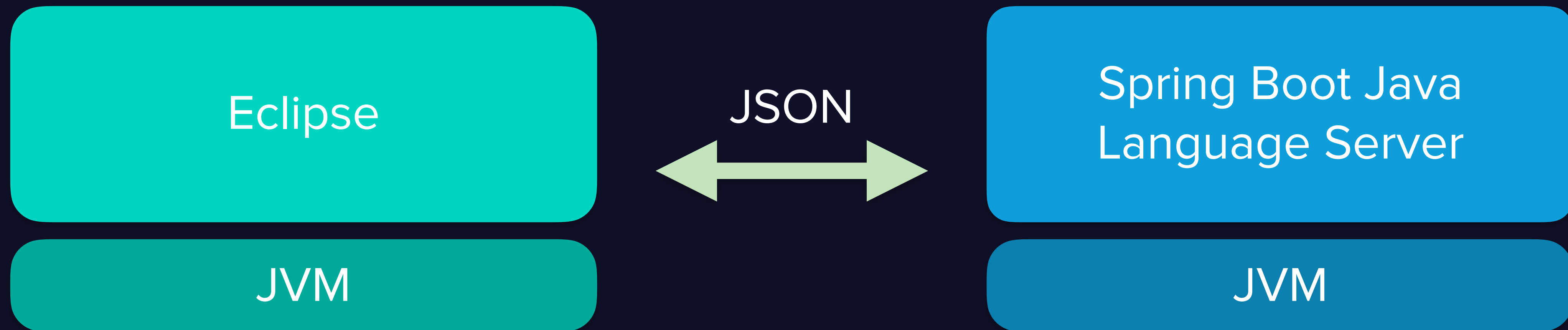
Separate Processes



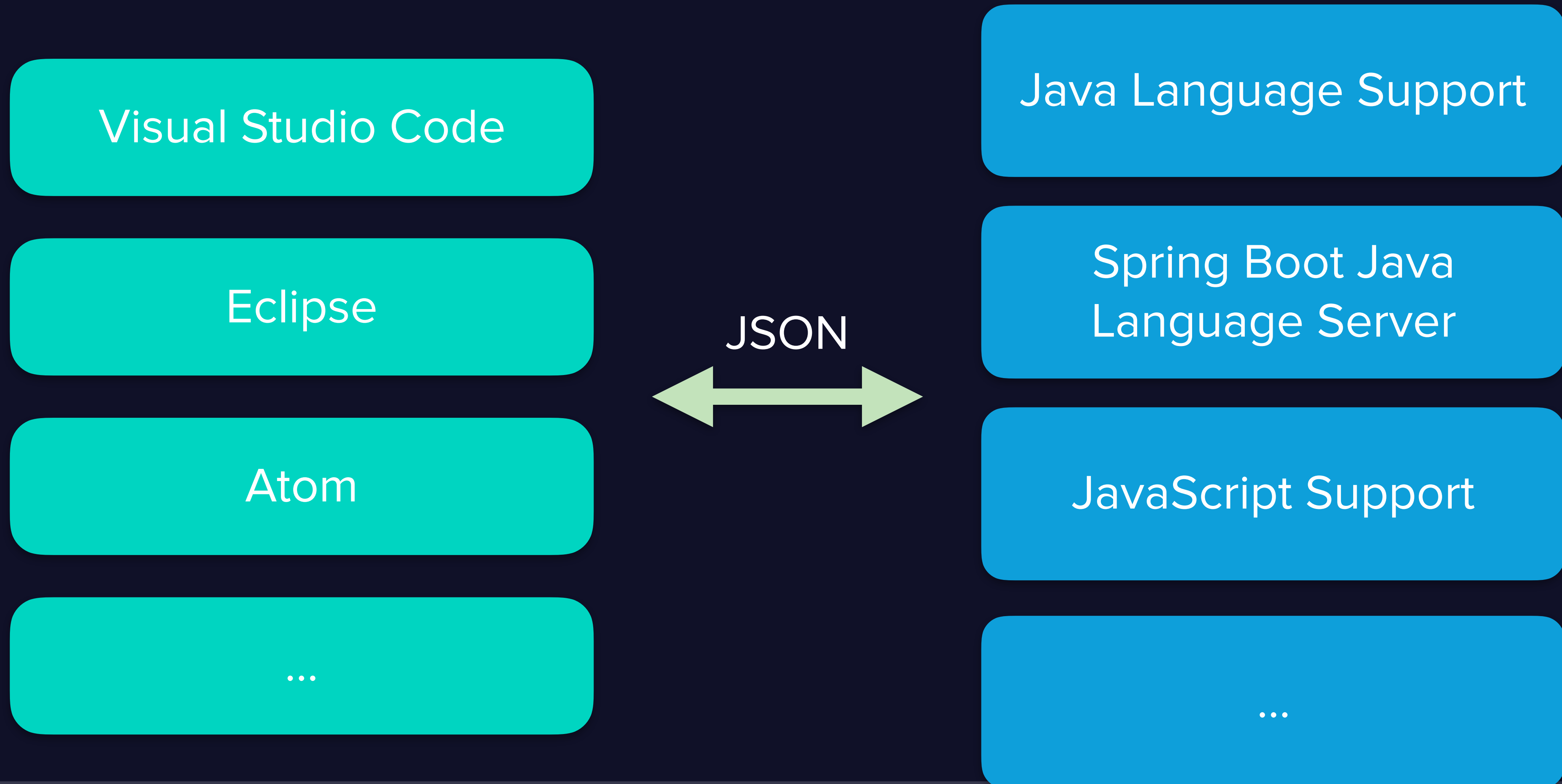
Independent Platforms



One Language Server to Serve Them All



Flexibility on Both Sides



Outlook

Timeline

July 2018 - Sep 2018:

- STS 3.9.x will continue to receive updates
- Spring Tools 4 Public Beta continues to receive updates

Sep 2018:

- Spring Tools 4 will go GA

Sep 2018 - Jun 2019:

- STS 3.9.x will continue to receive updates
- STS 3.9.x components will become add-on components to Spring Tools 4

From STS 3.9.x to Spring Tools 4

Spring Tools 4 for Eclipse - Spring Tool Suite 4

- full featured Eclipse distribution (similar to STS 3.9.x, but more lightweight)
- allows you to install old STS 3.9.x components as add-ons
- allows you to have both

STS 3.9.x components

- will receive maintenance updates
- will continue to be available via update sites
- will continue to be available as distribution on Eclipse Photon (4.8)
- will have its EOL in June 2019

Learn More. Stay Connected.

Spring Tools 4 - Public Beta

<https://spring.io/tools4>

SpringOne Platform by Pivotal.

 @s1p #springone