

NumberFour Announces N4JS, enabling high-quality JavaScript development on Node.js

And its availability on Github as an open source project

Berlin, Germany — March 13th, 2016: NumberFour AG, founded in 2009 by Marco Boerries to re-imagine how small businesses are run, announced today the release of N4JS, an open-source language based on Javascript with sound types and an IDE.

N4JS bridges the strengths of JavaScript and Java; the result is a typed JavaScript superset that is dynamic, flexible and type-safe. The N4JS language and its IDE allow for high-quality JavaScript development for large Node.js projects.

N4JS is built for JavaScript developers who seek to develop large-scale and maintainable server side JavaScript as well as Java developers who want to use JavaScript but do not want to miss familiar tool support, early validation and other Java goodness.

N4JS is available on Github as of today.

The Source code, the N4JS IDE and documentation can be downloaded from <https://github.com/NumberFour/n4js>.

Additionally NumberFour has submitted an Eclipse project proposal, so that N4JS can become available via Eclipse in the future.

“We believe that JavaScript is a great tool for external developers to contribute to our upcoming N4 Business Platform. But we were missing important features required for a reliable and more sophisticated solution; in particular a sound type system. So we developed N4JS and an IDE to add these missing features in order to best support our future platform developers” declared Marco Boerries, Founder and CEO of NumberFour.

“As we are standing on the shoulders of open source technology, we also want to give back. We understand N4JS as foundational technology, not just specific to only our own platform. This is why we released N4JS as an open source project. We are ready for contributions and excited to get feedback from the community” Boerries continued.

“With N4JS NumberFour shows its technical leadership and commitment to open source technology.” said Mike Volpi, Partner at Index Ventures “I’m excited about the N4JS release, because it is the first step and the start of bringing NumberFour’s Business Platform and Apps into fruition”.

Developers who are experienced with JavaScript or Java can easily apply their knowledge in N4JS, as N4JS is a typed superset of JavaScript. Most features from ECMAScript 2015 are already supported, including modules, classes, destructuring and arrow expressions.



N4JS enriches Javascript with a static type system similar to Java and provides extensive support for static validation hosted within its IDE. N4JS delivers built-in support for state-of-the-art programming paradigms such as dependency injection and robust test support. Its powerful Eclipse-based IDE is precisely tailored to these concepts, validating code as you type and providing timesaving features such as content assist and quick-fixes.

The type system of N4JS provides support for nominal types as known from Java, and structural types as known from TypeScript. In addition to classes, it introduces interfaces (including default methods), enumerations; and JavaScript-specific use cases such as union, intersection or this type.

Also supported are Generics, including generic methods and type inference. Extended features include async/await as proposed for upcoming ECMAScript versions (with extended support for legacy code), dependency injection using annotations and tests with JUnit-like annotations.

N4JS comes with proper support for Node.js. NPM modules can easily be installed directly from the N4JS IDE and type definitions are automatically downloaded when available. These modules can be used in N4JS using ECMAScript 2015's import features, even if no type definitions exist.

N4JS IDE projects can easily be published as NPM modules. The N4JS transpiler creates unified modules that can be used with System.js and Common.js module loaders. All required runtimes are also available via NPM as well, so projects written with N4JS can be seamlessly integrated into existing Node.js environments.

For more Information on N4JS go to: <https://numberfour.github.io/n4js>

ABOUT NUMBERFOUR AG

Founded in 2009 by Marco Boerries to re-imagine how small businesses are run, NumberFour is building an open business platform paired with a great collection of versatile, easy to use apps that run on smartphones, tablets, personal computers and business devices. This solution creates a level playing field by giving small businesses instant access to the tools, capabilities and insights normally only available to larger companies.

NumberFour AG has its headquarter in Berlin, Germany with offices in Hamburg, Germany and Palo Alto, California.

For more Information go to: www.numberfour.eu

****FOR FURTHER INFORMATION PLEASE CONTACT****

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