

UI5con

Learn App Development in UI5 with TypeScript – Reprise

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July 6th, 2023

Overview / Learnings

Updated end-to-end experience developing a UI5 app in TypeScript, plus advanced topics

1. Use the UI5 TypeScript application template to get started quickly
2. Write application code in TypeScript
3. Use third-party libraries seamlessly from NPM
4. Develop a UI5 control in TypeScript
5. Test the application with QUnit and OPA

General TS Documentation: <https://sap.github.io/ui5-typescript>

TypeScript – Quick Intro

- = JavaScript **plus types**
- Only at development/compile time
- *.d.ts files: type information for JS libs
 - [@types/openui5](#)
 - [@sapui5/types](#) + [@openui5/types](#)
 - App code: ES6 classes + module imports
- Benefits:
 - Error messages while you code
 - Code completion
 - In-place API reference, navigation
 - Easier refactoring & maintenance

Some noticeable immediately, others only over time

```
var someNumber: number;

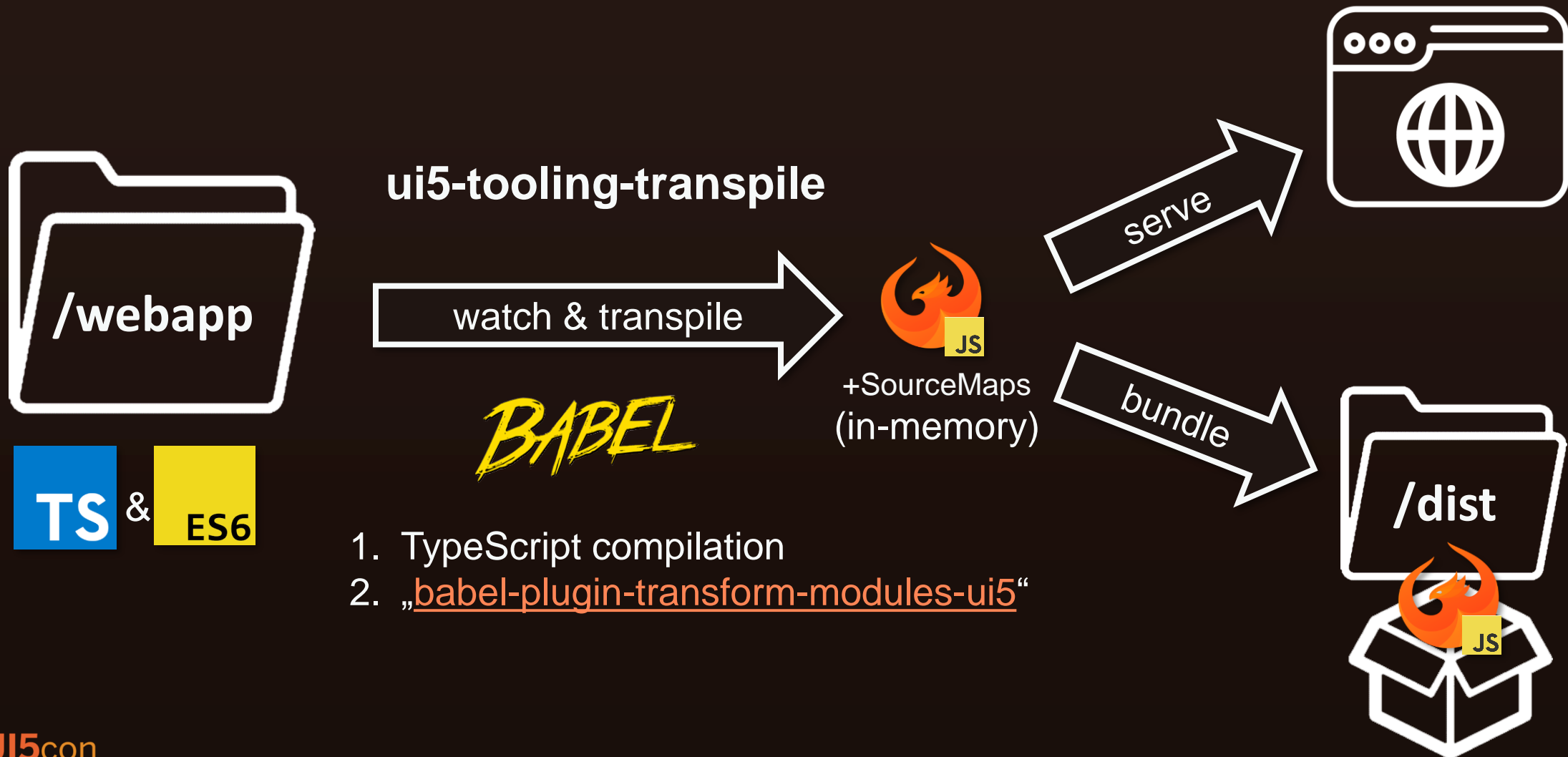
var otherNumber = 1;

function square(x: number) {
    return x * x;
}

type Point = {
    x: number;
    y: number;
};
```

...and more

Build Pipeline



Instructions on

<https://github.com/SAP-samples/ui5-typescript-tutorial>

Let's Start!

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Thank you!

Peter Muessig & Andreas Kunz

UI5 Architects

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