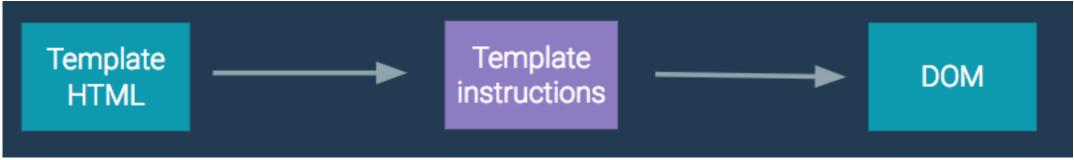




- Biggest benefit of lvy, the rendering pipeline removes actually reads the code vs. static analysis. This removes imports that are never used, even if they are referenced in the code.
- Backwards Compatible 6 months out (status)
- Locality Allows AOT dependencies & no meta data. Local meaning only information which is directly tied to the annotation of the component
- Stack trace is much more accurate, and identifies the issue.
- Build size is insanely small!
 - Today Compressed → 36K
 - Minified $\rightarrow 7.3$ Kb
 - Ivy Compressed → 2.7Kb





```
import {someFn, unusedFn} from './third-party;
function main(x) {
    someFn();
    if (x) unusedFn();
    return x;
main(false);
```

Schematics

Schematics allow you to "do things" to your project.

- update = single command to update dependencies
 - · ng update = npm, code, RxJS, Material
- add = instant code and library scaffolding
 - Material, Elements, PWA, bootstrap, clarity, nativescript
 - · ng add @angular/pwa = does all the setup.
- generate = Per-library 'generate' schematics
 - ng generate @angular/material:material-nav name=main-nav

Vendors and Us can publish our own schematics. Goal is to make universal libraries easier to build: project scaffolding, test, build system. N

Using 'ng add'

- > ng add @angular/pwa
- > ng add @angular/elements
- > ng add @angular/material
- > ng add @ng-bootstrap/schematics
- > ng add @clr/angular
- > ng add @nativescript/schematics (real soon!)

lvy

- Biggest benefit of Ivy, the rendering pipeline removes actually reads the code vs. static analysis. This removes imports that are never used, even if they are referenced in the code.
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```
Template
                 Template
                                 Angular
                                                 DOM
  HTML
                  Data
                                Interpreter
                        Template
 Template
                                                 DOM
  HTML
                        instructions
import {someFn, unusedFn} from './third-party;
function main(x) {
     someFn();
     if (x) unusedFn();
     return x;
main(false);
```