TOOLING

LEVEL UP YOUR JAVASCRIPT WITH ES6

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QUICK INTRO

THIS SINGLE VERSION OF JAVASCRIPT IS CALLED THE FOLLOWING:

> ECMASCRIPT 2015

> ES6

> ES2015

> ES15

FUTURE VERSIONS

> ES2016

> ES2017

OR (IF YOU'RE LAZY LIKE ME)

> ES16

> ES17

> ETC

GETTING IT WORKING

ES2015 WORKS TO SOME DEGREE IN MANY ENVIRONMENTS ALREADY, SUCH AS:

> CHROME

> FIREFOX

> EDGE

> NODE.JS

NOT FULL FEATURED

WHILE MANY FEATURES OF ES2015 DO WORK IN THESE ENVIRONMENTS, MANY AREN'T FULLY FEATURED.

> SOME FEATURES REQUIRE THE USE OF `'use strict'`

> SOME FEATURES HAVE NOT BEEN IMPLEMENTED YET

> ES15 IS NOT BACKWARDS COMPATABLE WITH OLDER BROWSERS

TO SEE A FULL ES2015 COMPATABILITY TABLE, VISIT:

ES6 COMPATABILITY TABLE

HTTPS://KANGAX.GITHUB.IO/COMPAT-TABLE/ES6/

TRANSPILERS

HERE COME TRANSPILERS TO SAVE THE DAY!!!

> THE MOST RELIABLE WAY TO USE ES2015 IN PRODUCTION AND NOT FRET

> COMPILE CODE INTO OLDER VERSIONS OF JAVASCRIPT

> AS NEW VERSIONS OF JAVASCRIPT ARE RELEASED, TRANSPILERS WILL CONTINUE TO BE THE NORM TO ENSURE BACKWARDS COMPATABILITY

BABEL

THE MOST WIDELY USED TRANSPILER

> HUMAN READABLE OUTPUT FTW!

> POLYFIL FOR STATIC FILES

> `babelify` TO MIX WITH GULP, GRUNT OR `npm run` SCRIPTS

> OFTEN USED WITH WEBPACK (BUNDLER) TO TRANSPILE ES2015, AND REACT'S JSX

NODE.JS

AS OF `v4.x.x,` NODE FEATURES MANY USEFUL ES15 BAKED IN.

> TO GET THE MOST OUT OF NODE, BE SURE TO `'use strict'`

> OR, INCORPERATE `babel-node` WITH ANY VERSION OF NODE TO TRANSPILE EVEN MORE ES2015 GOODNESS!

BUNDLERS

WEBPACK & BROWSERIFY

> IF YOU WANT TO TAKE ADVANTAGE OF ES2015'S `import` SYNTAX ON THE FRONT END, YOU WILL NEED A BUNDLER

> ALSO ALLOWS YOU TO TAKE ADVANTAGE OF `npm` ON THE CLIENT SIDE

> OFTEN USED WITH REACT AND BABEL

SUMMARY

> ES2015 IS ALREADY AVAILABLE TO YOU IN MANY ENVIRONMENTS YOU LIKELY USE TODAY

> TRANSPILERS LIKE BABEL ARE THE WAY OF THE FUTER

> BUNDLERS LIKE WEBPACK ALLOW YOU TO TAKE ADVANTAGE OF ES2015 ON THE CLIENT SIDE