

SOUTHERN
SWAYMAPS



IT'S SHOWTIME

It's 2015

Tools Are Complicated

Compilers



CoffeeScript

Compilers



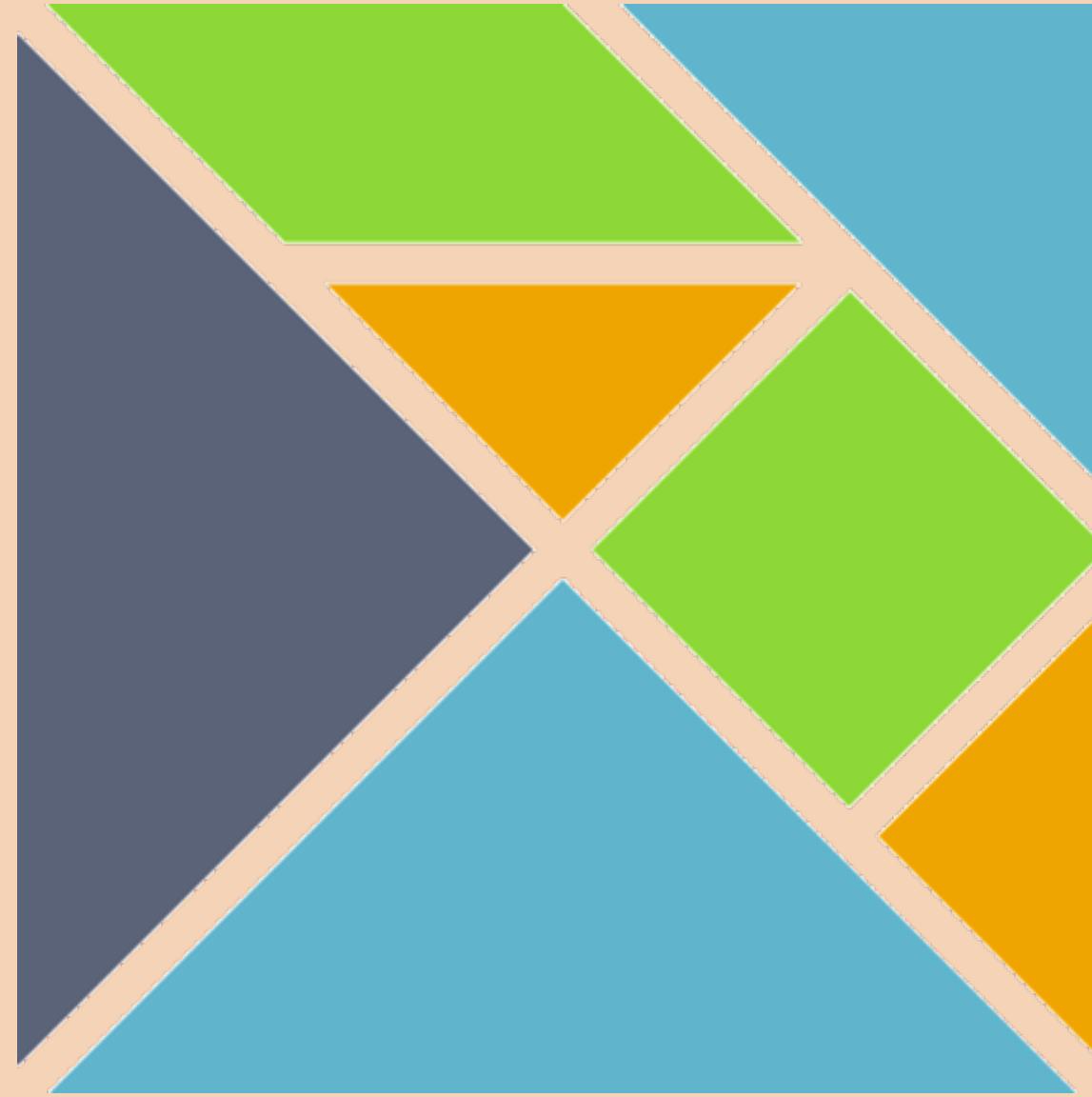
CoffeeScript

TypeScript
Compilers



CoffeeScript

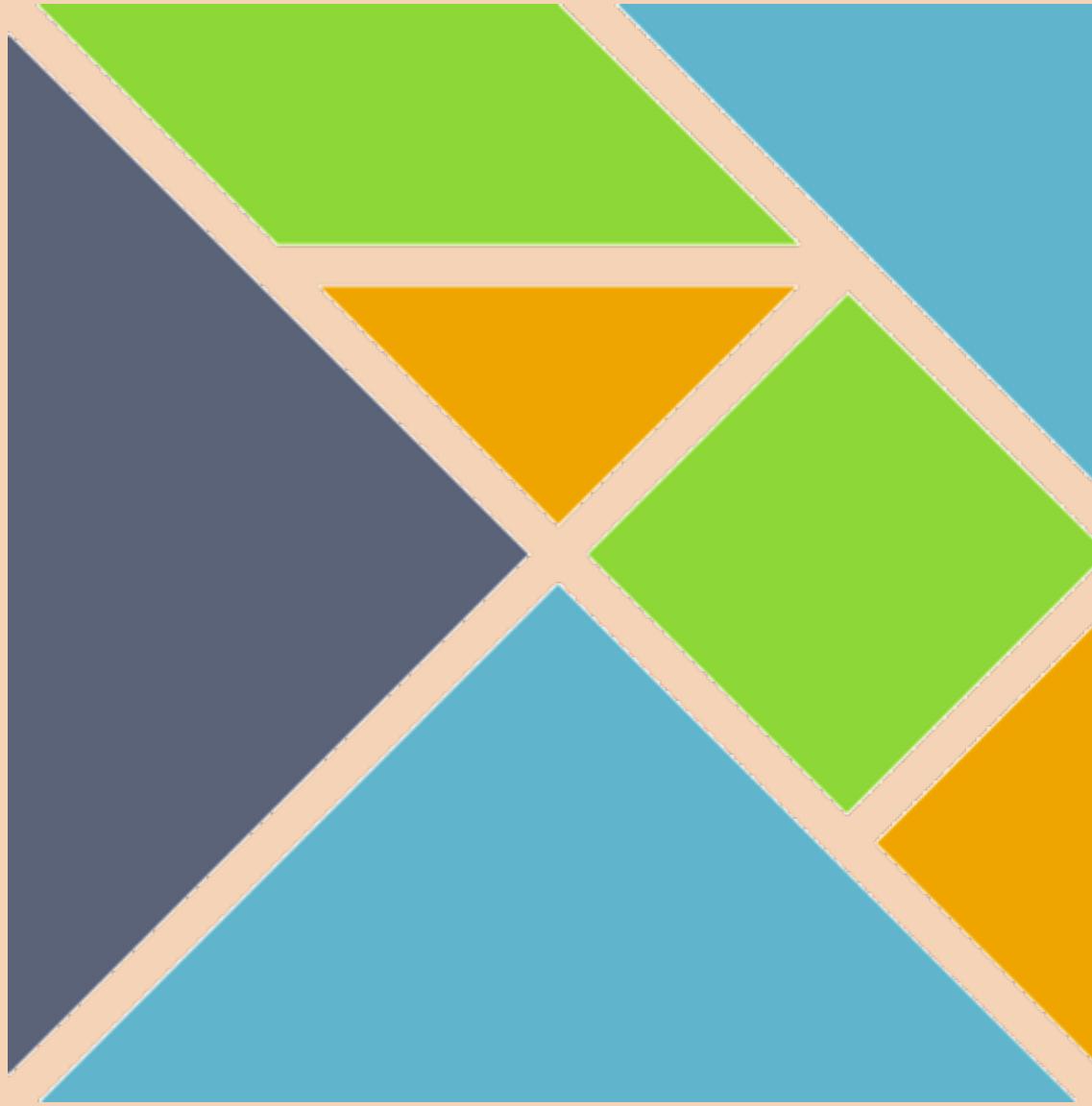
TypeScript
Compilers





CoffeeScript

TypeScript
Compilers



Dart

Transpilers

BABEL

Transpilers

BABEL
Transp

tc





fokus
@fokus

+ Follow

I just used GCC to transpile my C code into machine code.



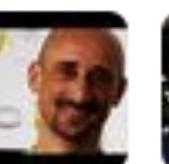
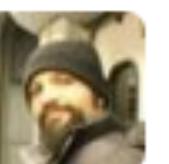
...

RETWEETS

54

FAVORITES

68



10:17 AM - 1 Jan 2015

Preprocessors



Preprocessors



Preprocessors

~~Sass~~



Preprocessors

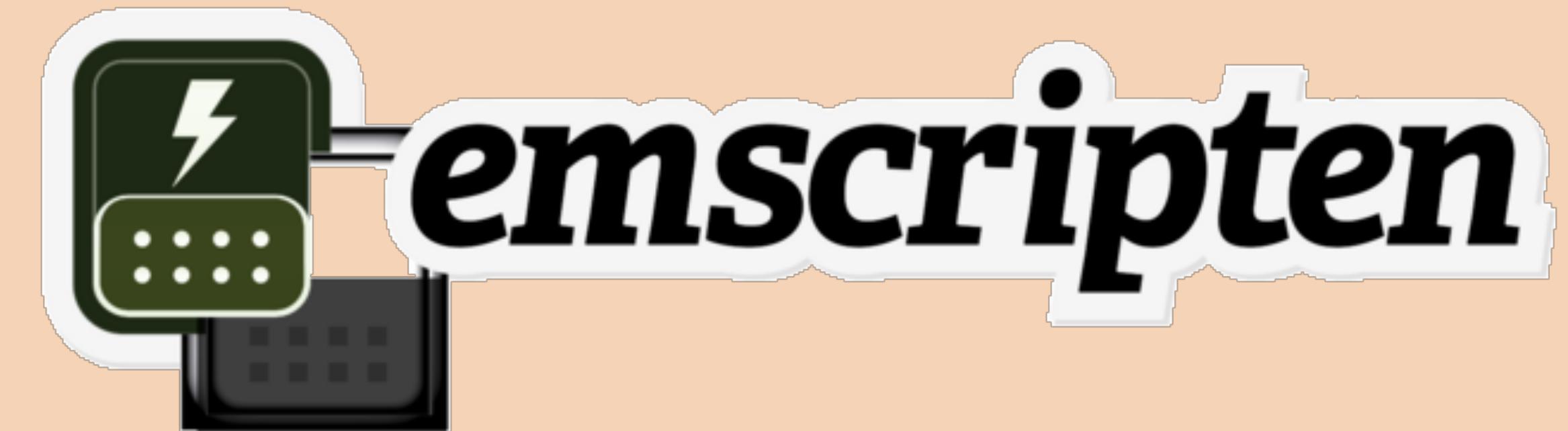
stylus

~~sass~~

A large, bold black sans-serif font word "Preprocessors" is positioned above two smaller words. The word "stylus" is written in a grey serif font, with the letter "s" in green and the rest in grey. The word "sass" is written in a pink cursive font, with the letter "s" in green and the rest in pink. A thick green curved line starts from the bottom left, passes through the "s" of "stylus", and ends at the top of the "s" in "sass". A thick pink curved line starts from the bottom right, passes through the "s" of "sass", and ends at the top of the "s" in "stylus".

Postprocessors

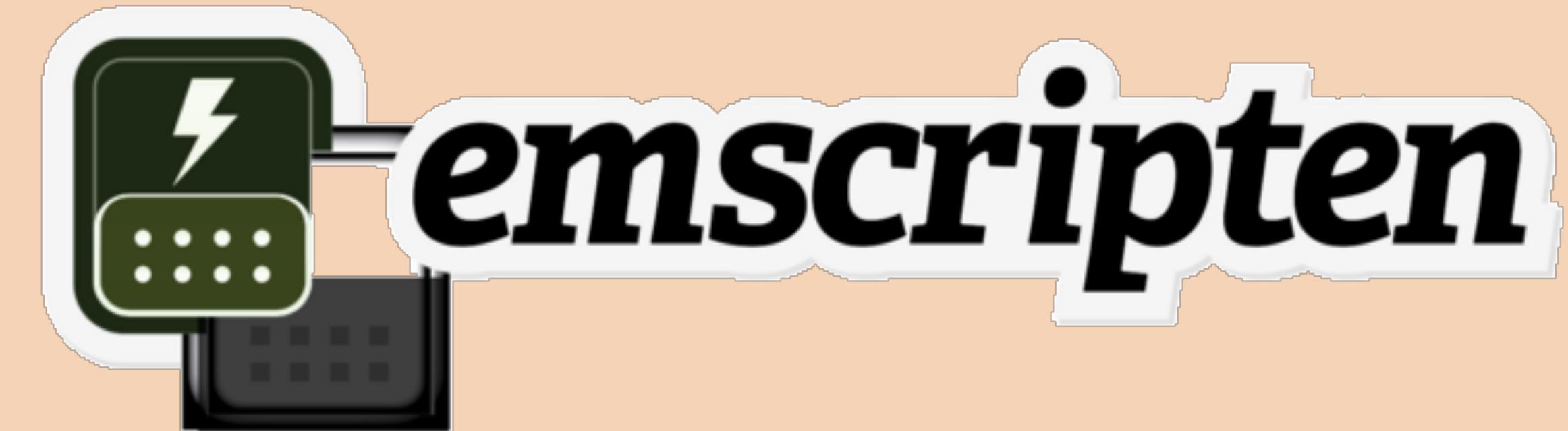
Postprocessors



Postprocessors



UglifyJS



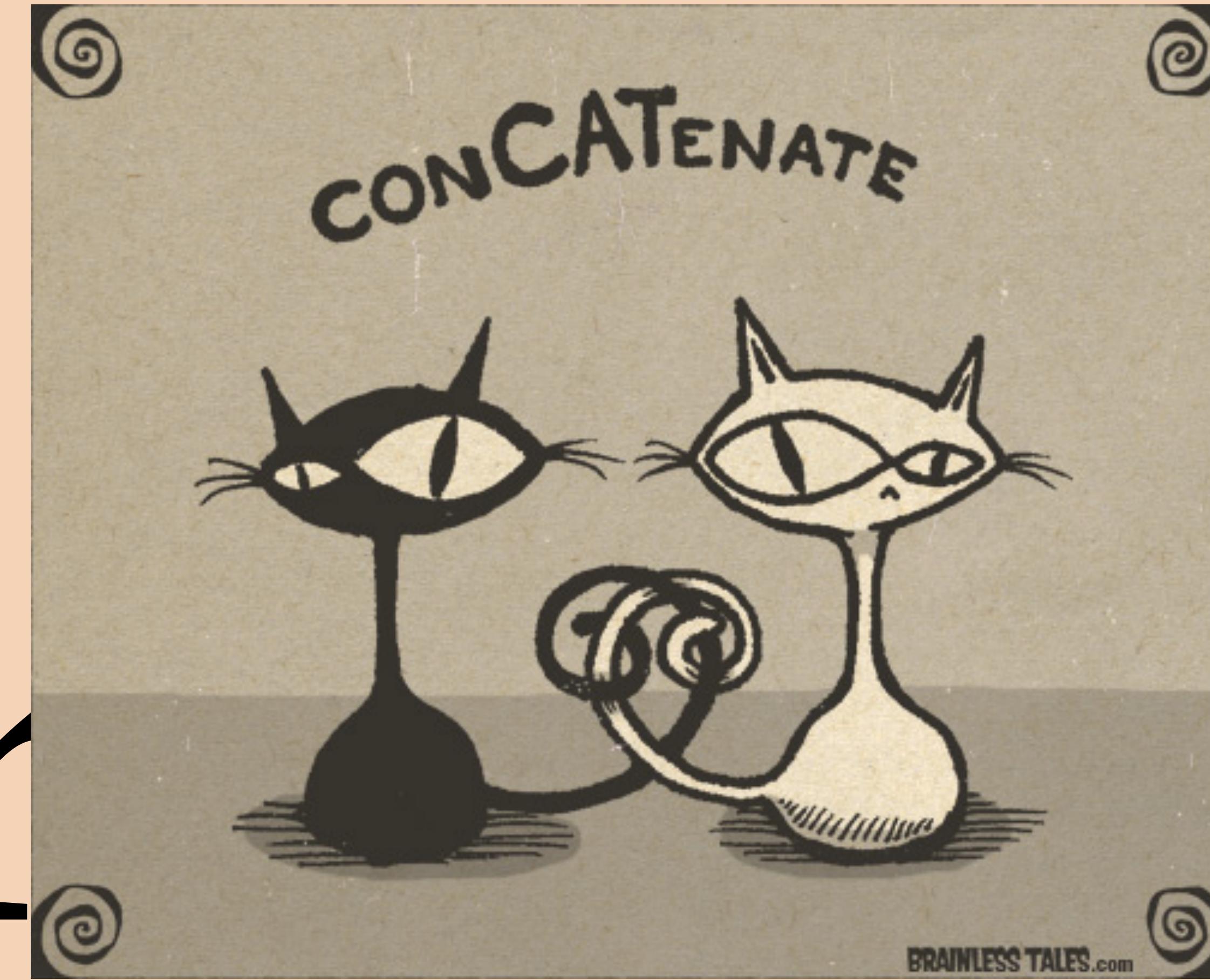
A Postprocessors



UglifyJS



Postprocessor



ors

I'LL BE BACK

Build Phase

Build Phase



GRUNT

Build Phase



Build Phase



GRUNT

Make:



Now you
have two
problems

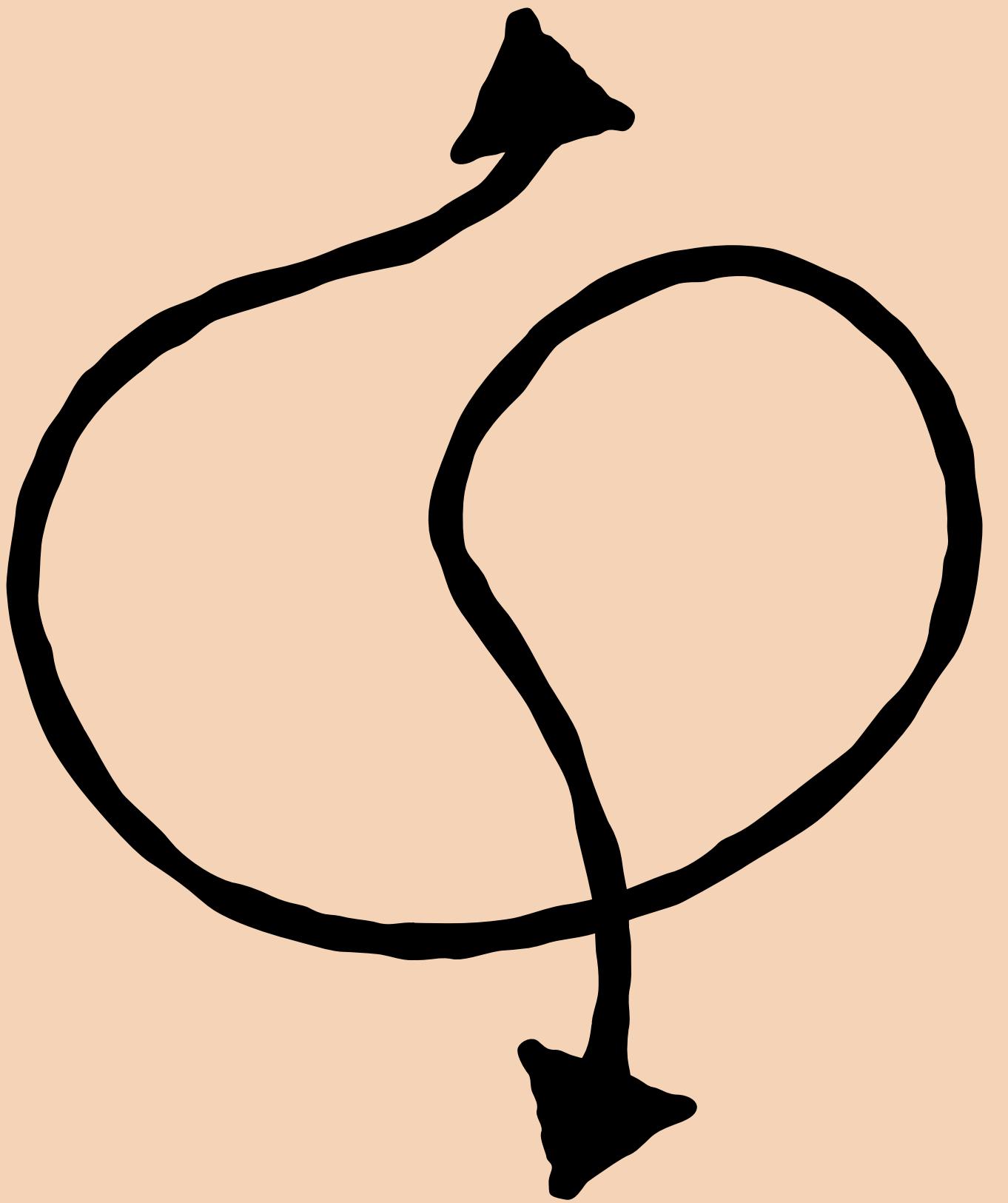
```
arguments[0],o=[{"+(t?t+":"")":i+""] ,a=arguments[1],u=arguments;for(e=o+a.replace(/\{\d+\}/g,function(t){var n=t.slice(1,-1);return n+2<u.length?pn(u[n+2]):t}),e=e+"\nhttp://errors.angular.org/1.3.13/" +(t?t+":"") :i,r=2;r<arguments.length;r++)e=e+(2==r?"&":"&"+encodeURIComponent(pn(arguments[r])));return new n(e)}function i(t){if(null==t||S(t))return!1;var n=t.length;return t.nodeType==gi&&n!=0:b(t)||li(t)||0==n||"number"==typeof n&&n>0&&n-1 in t}function o(t,n,e){var r,a;if(t)if(x(t))for(r in t)"prototype"==r||"length"==r||"name"==r|t.hasOwnProperty&&!t.hasOwnProperty(r)||n.call(e,t[r],r,t);else if(li(t)||i(t)){var u="object"!=typeof t;for(r=0,a=t.length;a>r;r++)(u|r in t)&&n.call(e,t[r],r,t)}else if(t.forEach&&t.forEach(o).t.forEach(n,e,t);else for(r in t)t.hasOwnProperty(r)&&n.call(e,t[r],r,t);return t}function a(t){return Object.keys(t).sort()}function u(t,n,e){for(var r=a(t),i=0;i<r.length;i++)n.call(e,t[r],i)}function l(t,n){n?t.$$hashKey=n:delete t.$$hashKey}function f(t){for(var n=t.$$hashKey,e=1,r=arguments.length;e>r;e++)var i=arguments[e];if(i)for(var o=Object.keys(i),a=0,u=o.length;u>a;a++)var s=o[a];t[s]=i[s]}function c(){return++si}function l(t,n){n?t.$$hashKey=n:delete t.$$hashKey}function h(t){return parseInt(t,10)}function p(t,n){return f(Obj.create(t),n)}function d(){return t}function v(t){return function(){return t}}function g(t){return"undefined"==typeof t}function m(t){return"undefined"!=typeof t}function y(t){return null!=t&&"object"==typeof t}function b(t){return"string"==typeof t}function w(t){return"number"==typeof t}function _t(t){return"[object Date]"==oi.call(t)}function x(t){return"function"==typeof t}function C(t){return"[object RegExp]"==oi.call(t)}function S(t){return t&&t.window==t}function A(t){return t&&t.$evalAsync&&t.$watch}function k(t){return"[object File]"==oi.call(t)}function E(t){return"[object FormData]"==oi.call(t)}function O(t){return"[object Blob]"==oi.call(t)}function T(t){return"boolean"==typeof t}function j(t){return t&&x(t.then)}function M(t){return!(!t||!(t.nodeName||t.prop&&t.attr&&t.find))}function N(t){var n,e={},r=t.split(",");for(n=0;n<r.length;n++)e[r[n]]=!0;return e}function R(t){return Gr(t.nodeName||t[0]&&t[0].nodeName)}function I(t,n){var e=t.indexOf(n);return e>-1&&t.splice(e,1),n}function V(t,n,e,r){if(S(t)||A(t))throw ai("cpws","Can't copy! Making copies of Window or Scope instances is not supported.");if(t==n)throw ai("cpi","Can't copy! Source and destination are identical.");if(e==[]||[],r=r||[],y(t)){var i=e.indexOf(t);if(-1==i)return r[i];e.push(t),r.push(n)}var a=V(t[u],null,e,r),y(t[u])&&(e.push(t[u]),r.push(a)),n.push(a);else{var s=n.$$hashKey;li(n)?n.length=0:o(n,function(t,e){delete n[e]});for(var c in t)t.hasOwnProperty(c)&&(a=V(t[c],null,e,r),y(t[c])&&(e.push(t[c]),r.push(a)),n[c]=a);l(n,s)}else if(n=t,t)if(li(t))n=V(t,[],e,r);else if(_t(t))n=new Date(t.getTime());else if(C(t))n=new RegExp(t.source,t.toSource());tring().match(/[^\\/]*/$/)[0]),n.lastIndex=t.lastIndex;else if(y(t)){var f=Object.create(Object.getPrototypeOf(t));n=V(t,f,e,r)}return n}function D(t,n){if(li(t)){n=n||[];for(var e=0,r=t.length;e<r;e++)n[e]=t[e]}else if(y(t)){n=n||{};for(var i in t)("$"!=i.charAt(0)||"$"!=i.charAt(1))&&(n[i]=t[i])}return n}function P(t,n){if(t==n)return!0;if(null==t||null==n)return!1;if(t!=n!=n)return!0;var r,i,o,a=typeof t,u=typeof n;if(a==u&&"object"==a){if(!li(t))return _t(n)?P(t.getTime(),n.getTime()):!1;if(C(t)&&C(n))return t.toString()==n.toString();if(A(t)||A(n))return S(t)||S(n)||li(n))return!1;o={};for(i in t)if("$"!=i.charAt(0)&&!x(t[i])){if(!P(t[i],n[i]))return!1;o[i]=!0}for(i in n)if(!o.hasOwnProperty(i)&&"$"!=i.charAt(0)&&n[i]!==e&&!x(n[i]))return!0}if(!li(n))return!1;if((r=t.length)==n.length){for(i=0;r>i;i++)if(!P(t[i],n[i]))return!1;return!0}function U(t,n,e){return t.concat(ei.call(n,e))}function q(t,n){return ei.join(n)}function ll(t,n||0)}function F(t,n){var e=arguments.length>2?q(arguments,2):[];return!x(n)||n instanceof RegExp?n:e.length?function(){return arguments.length?n.apply(t,U(e,arguments,0)):n.apply(t,e)}:function(){return arguments.length?n.apply(t,arguments):n.call(t)}function H(t,r){var i=r;return"string"==typeof t&&"$"==t.charAt(0)?i=e:S(r)?i="$WINDOW":r&&n==r?i="$DOCUMENT":A(r)&&(i=="$SCOPE"),i}function L(t,n){return"undefined"==typeof t?e:(w(n)||n==2?null),JSON.stringify(t,H,n))}function B(t){return b(t)?JSON.parse(t):t}function z(t){t=Qr(t).cloneNode(!0);try{t.empty()}catch(n){}var e=Qr("<div>").append(t).html();try{return t[0].nodeType==mi?Gr(e):e.match(/^(<[^>]+)>/)[1].replace(/^<([\w\-\_]+)>/,function(t,n){return"<"+Gr(n)+">"})}catch(n){return t}function W(t){try{return decodeURIComponent(t)}catch(n){}function G(t){var n,e,r={};return o((t||"").split("&"),function(t){if(t&&(n=t.replace(/\+/g,"%20")).split("=",e=W(n[0]),m(e))){i=m(n[1])?W(n[1]):!0;Jr.call(r,e)?li(r[e]):r[e].push(i):r[e]=[r[e],i]:r[e]=i}),r}function J(t){var n=[];return o(t,function(t,e){li(t)?o(t,function(t){n.push(K(e,!0)+(t==!0?"":+K(t,!0))),n.push(K(e,!0)+(t==!0?"":+K(t,!0))))},n.length?n.join("&"):"")}function Y(t){return K(t,!0).replace(/\%26/gi,"&").replace(/\%2D/gi,"=").replace(/\%2B/gi,"+")}function K(t,n){return encodeURIComponent(t).replace(/\%40/gi,"@").replace(/\%3A/gi,:").replace(/\%24/g,$").replace(/\%2C/gi,";").replace(/\%20/g,n?"%20":"+")}function Z(t,n){var e,r,i=di.length,(t=Qr(t),r=0;i>r;r++)if(e=di[r]+n,b(e=t.getAttribute(e)))return e;return null}function X(t,n){var e,r,i={};o(di,function(n){var i=n+"app";!e&&(i=t.querySelector("[+"o.replace(":","\\\""+"]"))&&(e=i,r=i.getAttribute(o))),e&&(i.strictDi=null)==Z(e,"strict-di"),n(e,r?r:[],i))}function Q(e,{y(i)||{i={}};var a={strictDi:!1};i=f(a,i);var u=function(){if(e=Qr(e),e.injector()){var t=e[0]==n?"document":z(e);throw ai("btstrpd","App Already Bootstrapped with this Element '{0}'",t.replace(/</,"&lt;").replace(/>,"&gt;"))}r=r||[],r.unshift(["$provide",function(t){t.value("$rootElement",e)}]),i.debugInfoEnabled&&r.push(["$compileProvider",function(t){t.debugInfoEnabled(!0),r.unshift("ng");var o=zn(r,i.strictDi);return o.invoke(["$rootScope","$rootElement","$compile","$injector"],function(t,n,e,r){t.$apply(function(){n.data("$injector",r),e(n)(t)})),o,s/^NG_ENABLE_DEBUG_INFO!/,c/^NG_DEFER_BOOTSTRAP!/:return t&&s.test(t.name)&&(i.debugInfoEnabled=!0,t.name=t.name.replace(s,"")),t&&c.test(t.name)?u():(t.name=t.name.replace(c,")),ui.resumeBootstrap=function(t){return o(t,function(t){r.push(t)},u()),void(x(ui.resumeDeferredBootstrap)&&ui.resumeDeferredBootstrap())}function tn(){t.name="NG_ENABLE_DEBUG_INFO!"&t.name,t.reload()}function nn(t){var n=ui.element(t).injector();if(!n)throw ai("test","no injector found for element argument to getTestability");return n.get("$testability")}function en(t,n){t.name=_",t.replace($i,function(t,e){return(e?n:"")+t.toLowerCase()}))}function rn(){var n;vi||(ti=t.jQuery,ti&&ti.fn.on?(Qr=ti,f(ti.fn,{scope:Vi.scope,isolatedScope:Vi.isolateScope,controller:Vi.controller,injector:Vi.injector,inheritedData:Vi.inheritedData}),n=ti.cleanData,ti.cleanData=function(t){var e;if(ci)ci!=1;else for(var r,i=0;null!=(r=t[i]);i++)e=ti._data(r,"events"),e&&e.$destroy&&ti(r).triggerHandler("$destroy");n(t))):Qr=wn,ui.element=Qr,vi=!0)}function on(t,n,e){if(!t)throw ai("areq","Argument '{0}' is {1}",n||?",e||"required");return t}function an(t,n,e){return e&&li(t)&&(t=t[t.length-1]),on(x(t),n,"not a function, got "+(t&&"object"==typeof t?t.constructor.name||"Object":typeof t)),t}function un(t,n){if("hasOwnProperty"==t)throw i("badname","hasOwnProperty is not a valid {0} name",n)}function sn(t,n,e){if(!n)return t;for(var r,i=n.split("."),o=t,a=i.length,u=0;a>u;u++)r=i[u],t&&(t=(o=t)[r]);return!e&&x(t)?F:t}function cn(t){var n=t[0],e=t[t.length-1],r=[n];do{if(n=n.nextSibling,!n)break;r.push(n)}while(n==e);return Qr(r)}function ln(){return Object.create(null)}function fn(t){function n(t,n){return t[n]||(t[n]=e())}var e=r("$injector"),i=r("ng"),o=n(t,"angular",Object);return o.$$minErr=o.$$minErr||r,n(o,"module",function(){var t={};return function(r,o,a){var u=function(t,n){if("hasOwnProperty"==t)throw i("badname","hasOwnProperty is not a valid {0} name",n);return u(r,"module"),o&&t.hasOwnProperty(r)&&(t[r]=null),n(t,r,function(){function t(t,e,r,i){return i||(i.function(){return i[r]||"push"]([t,e,arguments]),c})if(!o)throw e("nomod","Module '{0}' is not available! You either misspelled the module name or forgot to load it. If registering a module ensure that you specify the dependencies as the second argument."),r);var n=[],i=[],u=t("$injector","invoke","push",i),c={_invokeQueue:n,_configBlocks:i,_runBlocks:u,requires:o,name:r,provider:t("$provide","provider"),factory:t("$provide","factory"),service:t("$provide","service"),value:t("$provide","value"),constant:t("$provide","constant","unshift"),animation:t("$animateProvider","register"),filter:t("$filterProvider","register"),controller:t("$controllerProvider","register"),directive:t("$compileProvider","directive"),config:s,run:function(t){return t.push(t.this)}:return a&&s(a,c)})}function hn(t){var n=[]:return JSON.stringify(t.e){if(e=H(t.e).v(e)){if(n.index0f(e)>=0)return"<already seen>":n.push(e)}}}function
```


Source Maps

To The

Rescue

Content



Source

CSS

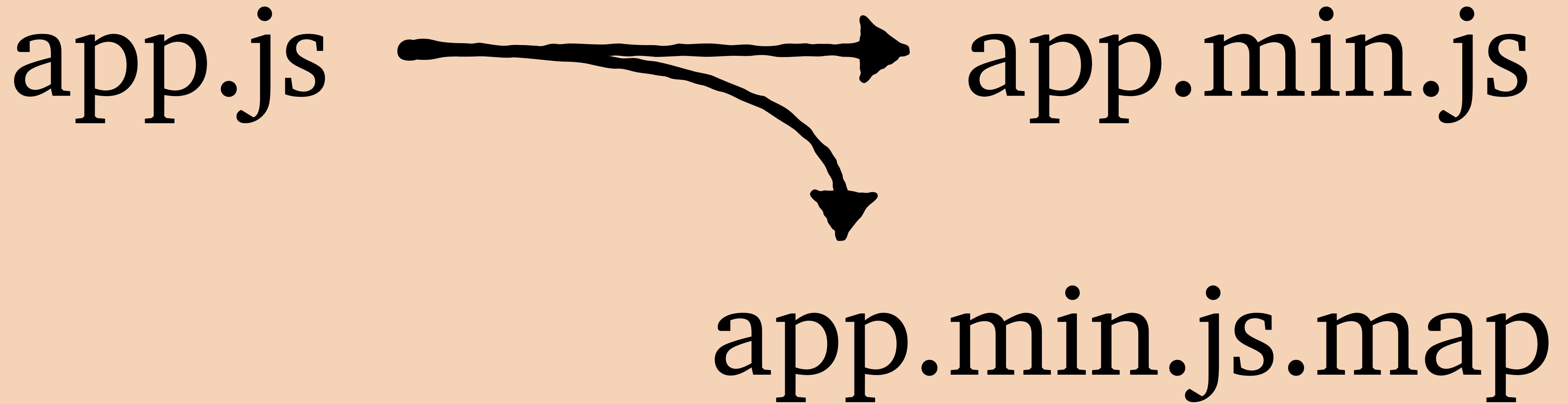
&

JavaScript

Without Source Maps

app.js → app.min.js

With Source Maps

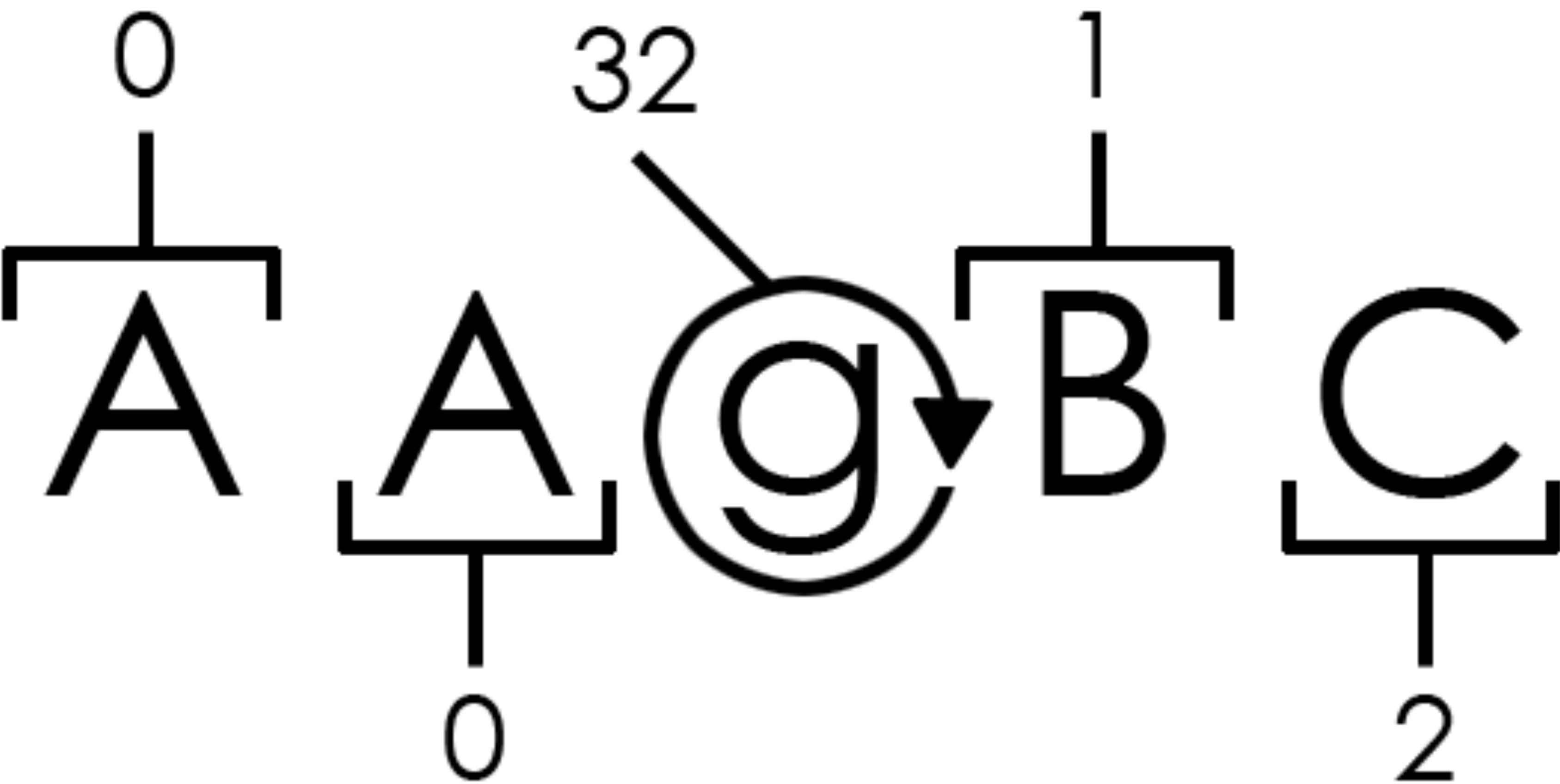


```
1 "use strict";function Example1Controller(t){this.showPresenters
2 }function B(n,r,o,s,c,l,f){if(r==c) return null;var h=null;if(a
3 h("$digest"),l.$$checkUrlChange(),this==w&&null!=a&&(l.defer.
4 },enabled:d,cancel:d}{}],Gi=r("$compile");Xn.$inject=["$provid
5 return function(e,r){var i;return i=I?I:0?0:M,y?m(n.remove(c(i,
6 }function vo(t){var n=ke(arguments,!1,!1,1);return pr(t,j,null,
7 //# sourceMappingURL=app.js.map
```

```
{"version":3,"sources":["classTest.es6","nejs.controller.js","angular.js","app.js","index.js","_nejs.module.js","nejs.presenter.directive.js","nejs.presenters.service.js"],"names":["Example1Controller","Presenters","this","showPresenters","presenters","listPresenters","_classCallCheck","instance","Constructor","TypeError","Test","name","console","log","window","document","undefined","minErr","module","ErrorConstructor","Error","message","i","code","arguments","prefix","template","templateArgs","replace","match","index","slice","length","toDebugString","encodeURIComponent","isArrayLike","obj","isWindow","nodeType","NODE_TYPE_ELEMENT","isString","isArray","forEach","iterator","context","key","isFunction","hasOwnProperty","call","isPrimitive","sorterdKeys","Object","keys","sort","forEachSorted","reverseParams","iteratorFn","value","nextUid","uid","setHashKey","h","$$hashKey","extend","dst","ii","j","jj","int","str","parseInt","inherit","parent","extra","create","noop","identity","$","valueFn","isUndefined","isDefined","isObject","isNumber","isDate","toString","isRegExp","isScope","$evalAsync","$watch","isFile","isFormData","isBlob","isBoolean","isPromiseLike","then","isElement","node","nodeName","prop","attr","find","makeMap","items","split","nodeName_","element","lowercase","arrayRemove","array","indexOf","splice","copy","source","destination","stackSource","stackDest","ngMinErr","push","result","Date","getTime","RegExp","lastIndex","emptyObject","getPrototypeOf","shallowCopy","src","charAt","equals","o1","o2","keySet","t1","t2","concat","array1","array2","sliceArgs","args","startIndex","bind","self","fn","curryArgs","apply","toJsonReplacer","val","toJson","pretty","JSON","stringify","fromJson","json","parse","startingTag","jqLite","clone","empty","e","elemHtml","append","html","NODE_TYPE_TEXT","tryDecodeURIComponent","decodeURIComponent","parseKeyValue","keyValue","key_value","toKeyValue","parts","arrayValue","encodeUriQuery","join","encodeUriSegment","pctEncodeSpaces","getNgAttribute","ngAttr","ngAttrPrefixes","angularInit","bootstrap","appElement","config","hasAttribute","getAttribute","candidate","querySelector","strictDi","modules","defaultConfig","doBootstrap","injector","tag","unshift","$provide","debugInfoEnabled","$compileProvider","createInjector","invoke","scope","compile","$apply","data","NG_ENABLE_DEBUG_INFO","NG_DEFER_BOOTSTRAP","test","angular","resumeBootstrap","extraModules","resumeDeferredBootstrap","reloadWithDebugInfo","location","reload","getTestability","rootElement","get","snake_case","separator","SNAKE_CASE_REGEX","letter","pos","toLowerCase","bindJQuery","originalCleanData","bindJQueryFired","jQuery","on","JQLitePrototype","isolateScope","controller","inheritedData","cleanData","elems","events","skipDestroyOnNextjQueryCleanData","elem","_data","$destroy","triggerHandler","JQLite","assertArg","arg","reason","assertArgFn","acceptArrayAnnotation","constructor","assertNotHasOwnProperty","getter","path","bindFnToScope","lastInstance","len","getBlockNodes","nodes","endNode","blockNodes","nextSibling","createMap","setupModuleLoader","ensure","factory","$injectorMinErr","$$minErr","requires","configFn","invokeLater","provider","method","insertMethod","queue","invokeQueue","moduleInstance","configBlocks","runBlocks","_invokeQueue","_configBlocks","_runBlocks","service","con
```

```
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    "...\\..\\..\\bower_components\\picturefill\\dist\\picturefill.js",  
    "...\\tmp\\js\\blog\\_assets\\js\\page.es6"  
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    "k",  
    "b",  
    "d",  
    "l",  
    "m",  
    "c",  
    "n",  
    "p",  
    "TypeError",  
    "then",  
    "call",  
    "e",  
    "true",  
    "false",  
    "Object",  
    "String",  
    "Number",  
    "Function",  
    "Array",  
    "Date",  
    "Boolean",  
    "RegExp",  
    "Promise",  
    "Error",  
    "RangeError",  
    "ReferenceError",  
    "SyntaxError",  
    "TypeError",  
    "URIError",  
    "Math",  
    "Math.PI",  
    "Math.E",  
    "Math.LN10",  
    "Math.LN2",  
    "Math.LOG10E",  
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    "Math.SQRTPI_512",  
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Variable Length Quantity



It all

Just Works

deeno

Multi-Level Source Maps

HASTA LA VISTA, BABY

ES6

CoffeeScript

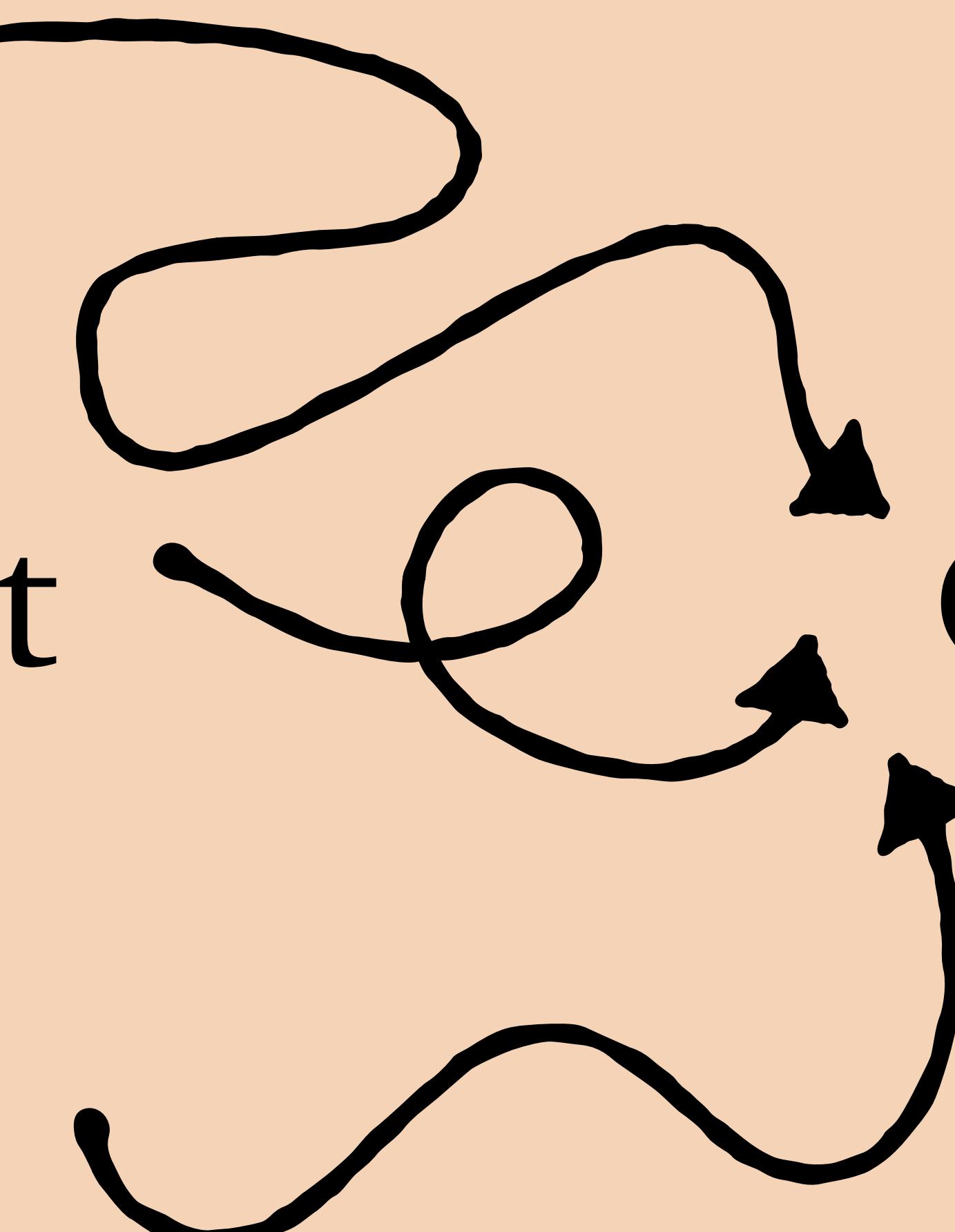
TypeScript

ES6

CoffeeScript

TypeScript

Concat



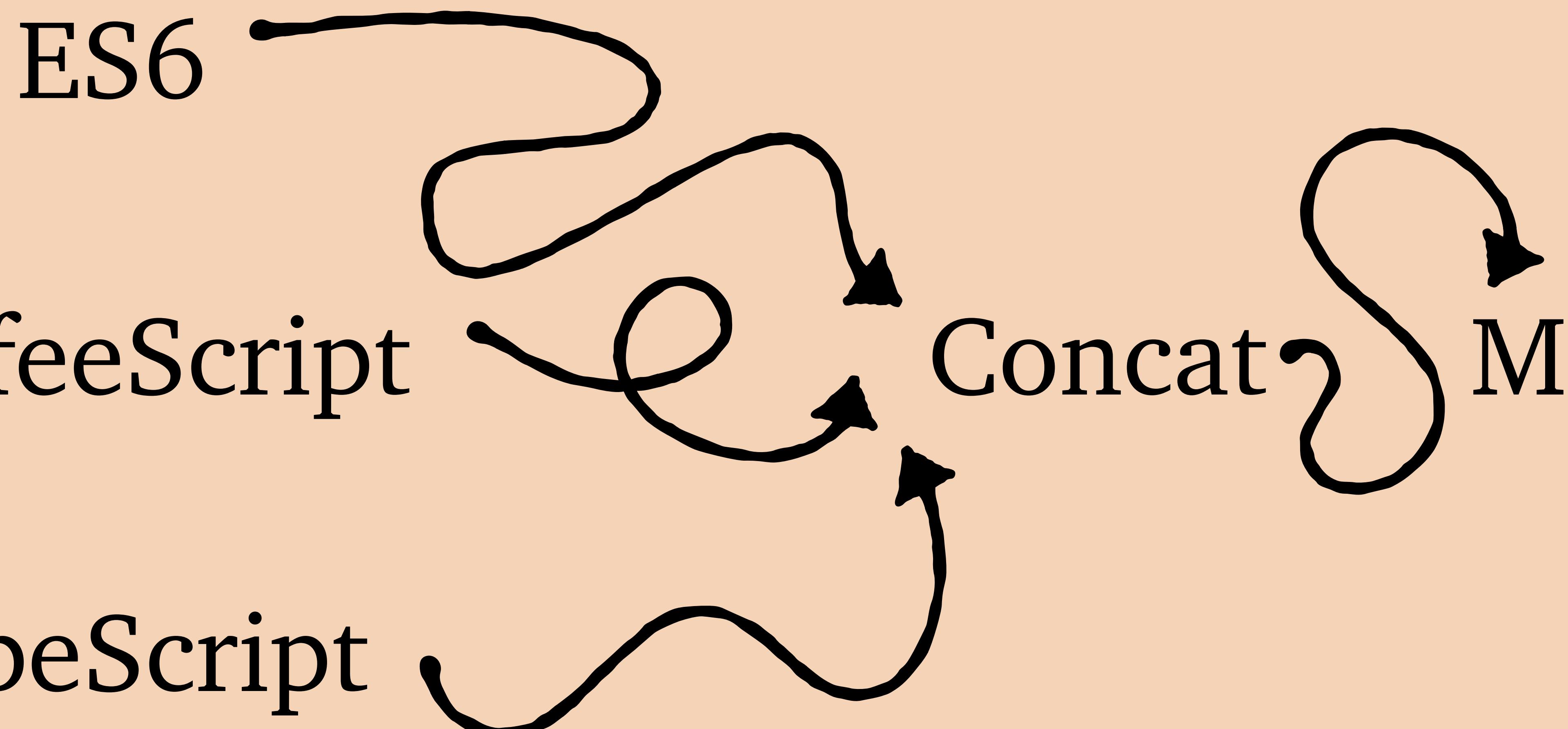
ES6

CoffeeScript

TypeScript

Concat

Minify



deeno

Arnoldc

Lhartikk/ArnoldC Matt

GitHub, Inc. [US] https://github.com/lhartikk/ArnoldC

[Delicious-do_not_de] Read Later https://class.courser Source Maps Other Bookmarks

This repository Search Explore Gist Blog Help mattdsteele + ▾ □ ⚙ ⌂

lhartikk / ArnoldC Watch 134 Star 3,009 Fork 183

Arnold Schwarzenegger based programming language <http://lhartikk.github.io/ArnoldC/>

64 commits 1 branch 0 releases 10 contributors

branch: master +

Update README.md

lhartikk authored on Dec 30, 2014 latest commit 98db117f38

File	Commit Message	Date
project	Visit full stackframes after branching	a year ago
src	Added generated audio for ArnoldC scripts using FreeTTS.	3 months ago
.gitignore	Update .gitignore	9 months ago
ASMLICENSE	add asm license	a year ago
LICENSE	Initial commit	2 years ago
README.md	Update README.md	3 months ago
build.sbt	Added generated audio for ArnoldC scripts using FreeTTS.	3 months ago

Code

Issues 53

Pull requests 0

Wiki

Pulse

Graphs

SSH clone URL

git@github.com:lha

You can clone with HTTPS, SSH, or Subversion. ②

Clone in Desktop

Download ZIP

Hello World

IT'S SHOWTIME

TALK TO THE HAND "hello world"

YOU HAVE BEEN TERMINATED

$$a = (4 + b) * 2$$

GET TO THE CHOPPER a

HERE IS MY INVITATION 4

GET UP b

YOU'RE FIRED 2

ENOUGH TALK

foo = false

bar = true

HEY CHRISTMAS TREE foo
YOU SET US UP @I LIED

HEY CHRISTMAS TREE bar
YOU SET US UP @NO PROBLEMO

**Two
Problems**

I.



Matt Steele
@mattdsteele

VERY IMPORTANT:

send me your favorite arnold
schwarzenegger one-liner and/or gif



RETWEET

1



7:56 AM - 8 Apr 2015



Nebraska JavaScript

@nebraskajs



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@mattdsteele get to the chopper!!





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@mattdsteele It's not a toomah!



snekse
@snekse



[Following](#)

@mattdsteele I'll be back... (From the movie
Commando)





Mark Mohr
@cubske1



[Follow](#)

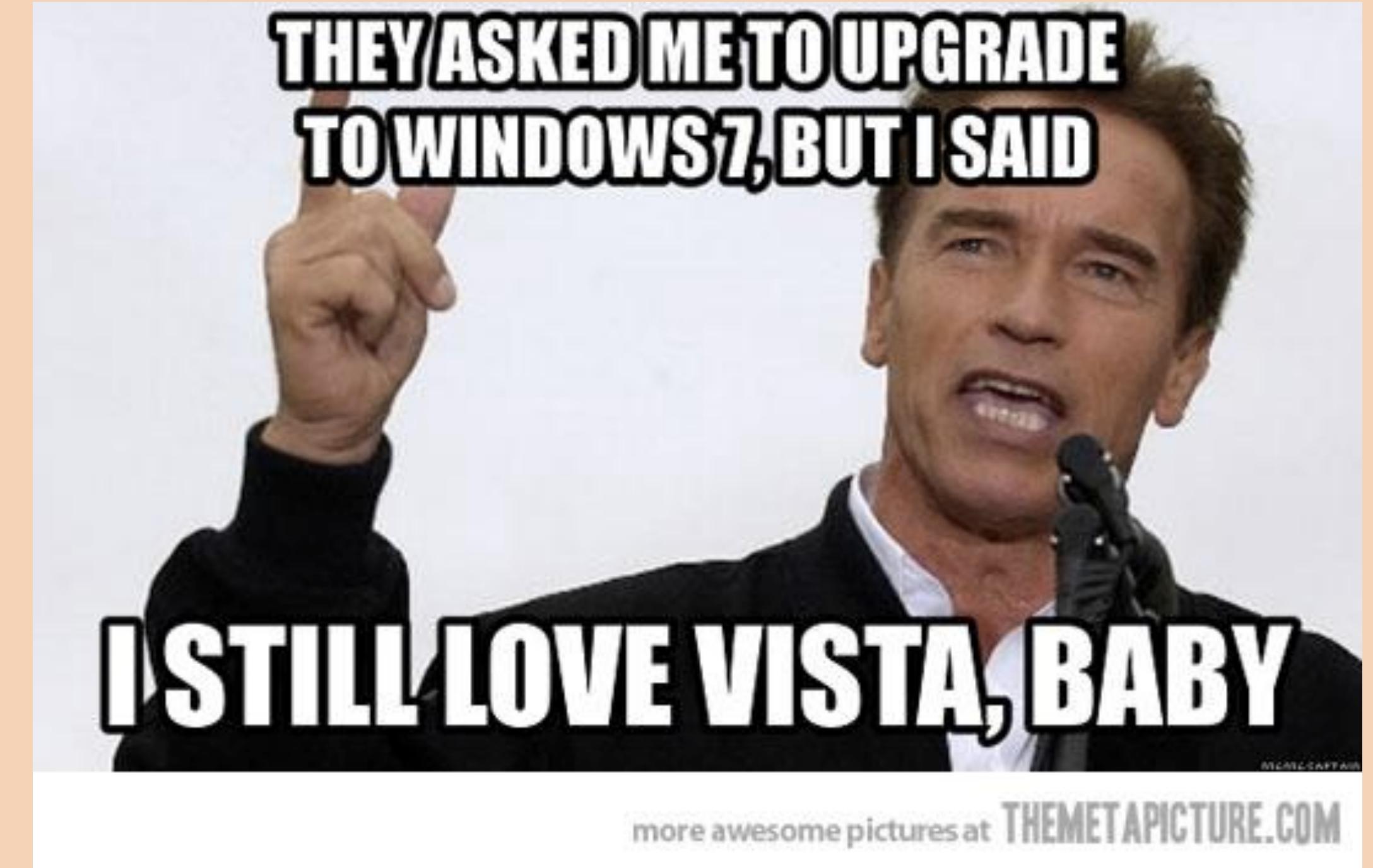
@mattdsteele just the look he gives John
after missing the high five





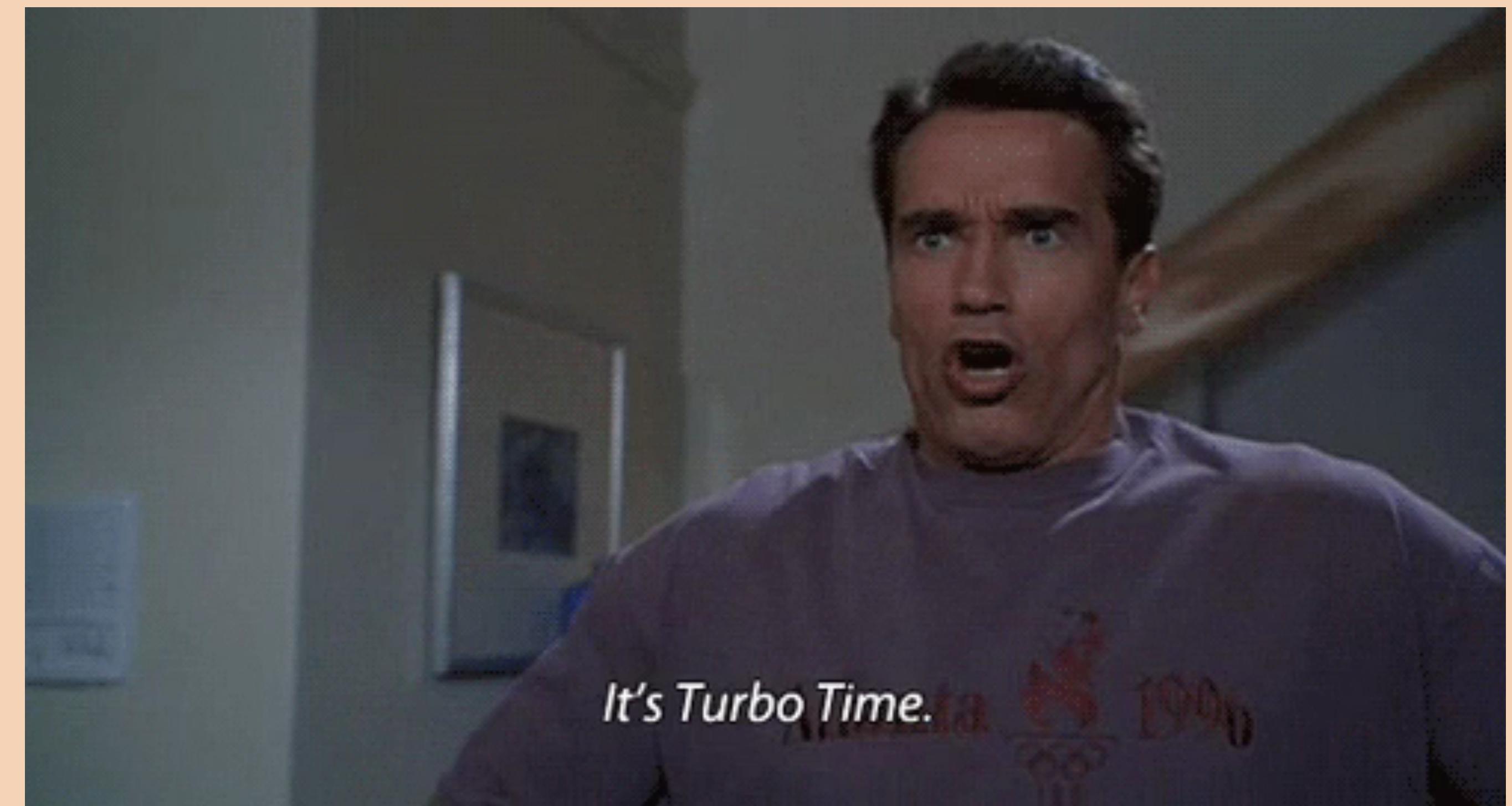
more awesome pictures at THEMETAPICTURE.COM



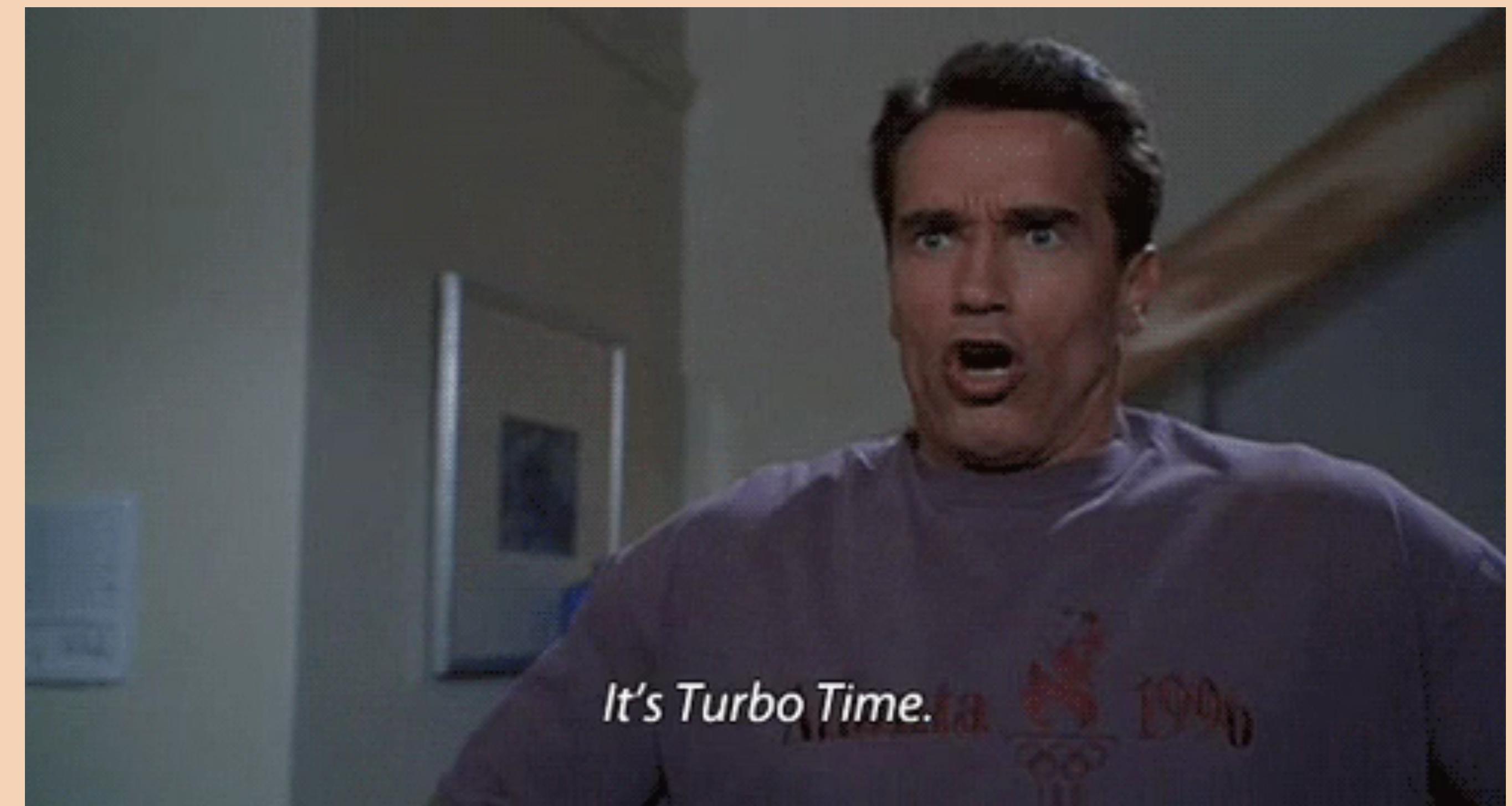


more awesome pictures at THEMETAPICTURE.COM





It's Turbo Time.



It's Turbo Time.

2.

Try it yourself

hello.arnoldc

IT'S SHOWTIME

TALK TO THE HAND "hello world"

YOU HAVE BEEN TERMINATED

```
java -jar ArnoldC.jar hello.arnoldc  
java hello
```

2.

Try it yourself

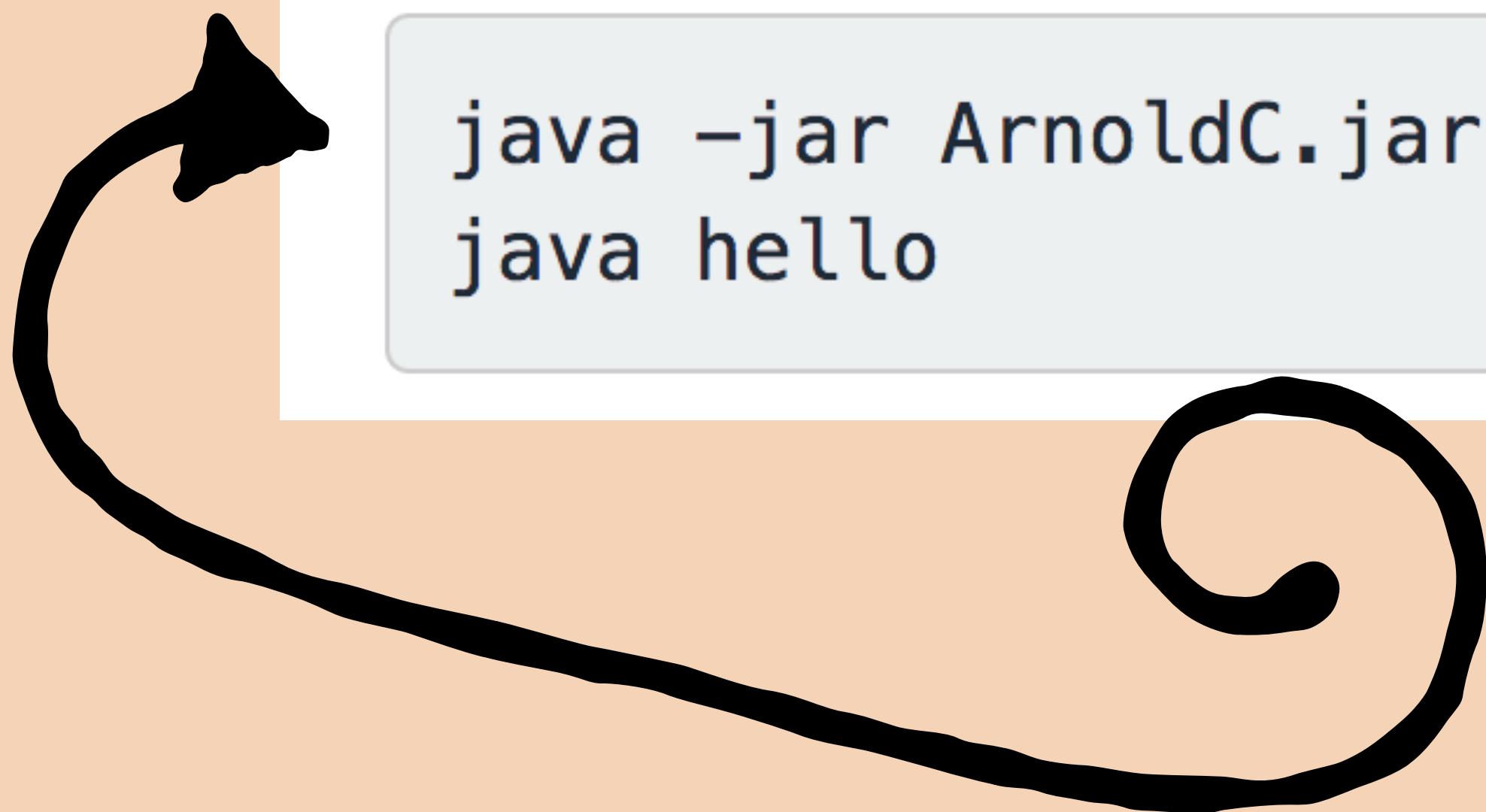
hello.arnoldc

IT'S SHOWTIME

TALK TO THE HAND "hello world"

YOU HAVE BEEN TERMINATED

```
java -jar ArnoldC.jar hello.arnoldc  
java hello
```



So

I wrote a compiler

arnoldc.js

<https://github.com/mattdsteele/arnoldc.js>

Compiles from ArnoldC to JavaScript

Compiles from ArnoldC to JavaScript
(With Source Maps)

DO IT

NOW

Source Maps



11+

Tips

1. Upgrade your tools

Tips

2. Gulp > Grunt (for this)

```
gulp.task('javascript', function() {
  gulp.src('src/**/*.js')
    .pipe(sourcemaps.init())
    .pipe(plugin1())
    .pipe(plugin2())
    .pipe(sourcemaps.write())
    .pipe(gulp.dest('dist')));
});
```

Tips

3. Inline your sourcesContent

Tips

4. Source Map Visualization Tool

<http://sokra.github.io/source-map-visualization/>



@mattdsteele
<http://steele.blue>