

Extending Your JavaScript Toolbox

Using Modern JavaScript to Develop Apps
Faster

Presented by Drew Fattlar

Email: Drew.Fattlar@synapticap.com Github: [@dfattlar](https://github.com/dfattlar)



salesforce

Presentation Takeaways

Understand the benefits of running a local dev server

Be prepared to quickly implement within your own project

Jumpstart your usage of Modern JavaScript

Quickly Deploy optimized JS

Presentation Assumptions

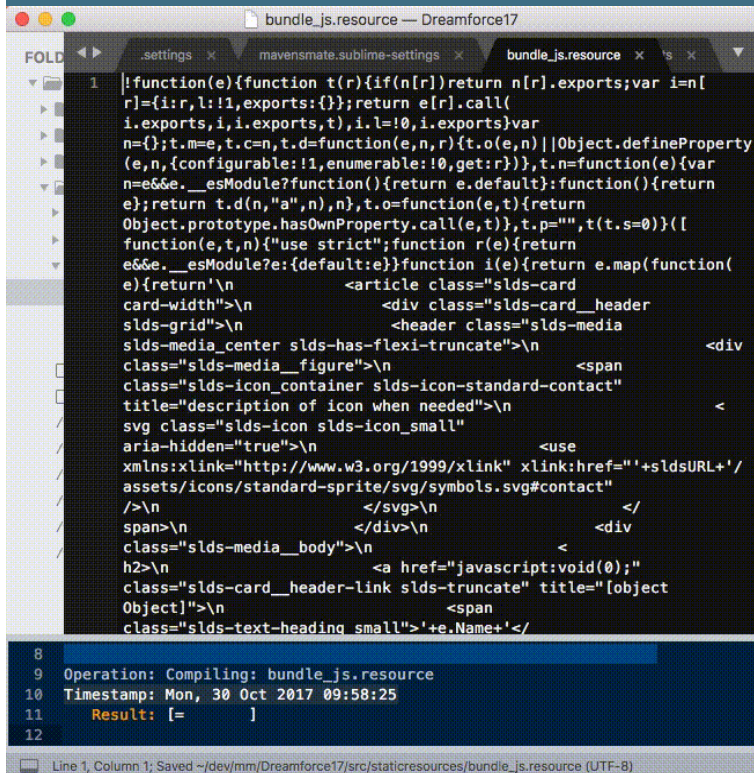
Salesforce Developer Org is setup

MavensMate is installed in Sublime Text

NPM and Node.js are installed globally on your machine

What We're Eliminating

Saving to the Server!



```
1 |function(e){function t(r){if(n[r])return n[r].exports;var i=n[
r]={i:r,l:!1,exports:{}};return e[r].call(
i.exports,i.exports,t),i.l=!0,i.exports}var
n={};t.m=e,t.c=n,t.d=function(e,n,r){t.o(e,n)||Object.defineProperty
(e,n,{configurable:!1,enumerable:!0,get:r})},t.n=function(e){var
n=e&&e.__esModule?function(){return e.default}:function(){return
e};return t.d(n,"a",n),t.o=function(e,t){return
Object.prototype.hasOwnProperty.call(e,t)},t.p="",t(t.s=0)}([
function(e,t,n){function r(e){return
e&&e.__esModule?{default:e}:function i(e){return e.map(function(
e){return'\n      <article class="slds-card
card-width">\n        <div class="slds-card_header
slds-grid">\n          <div class="slds-media
slds-media_center slds-has-flexi-truncate">\n            <div
class="slds-media__figure">\n              <span
class="slds-icon_container slds-icon-standard-contact"
title="description of icon when needed">\n                <
svg class="slds-icon slds-icon_small"
aria-hidden="true">\n                  <use
xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="'+sldsURL+'/'
assets/icons/standard-sprite/svg/symbols.svg#contact"
/>\n                </svg>\n              </div>\n            <div
class="slds-media__body">\n              <
h2>\n                <a href="javascript:void(0);"
class="slds-card_header-link slds-truncate" title="[object
Object]">\n                  <span
class="slds-text-heading_small">'+e.Name+'</
8
9 Operation: Compiling: bundle.js.resource
10 Timestamp: Mon, 30 Oct 2017 09:58:25
11 Result: [=
12
```

Loading in tons of scripts!

```
<title>My Page</title>
<apex:includeScript value="/support/con
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!URLFOR($Re
<apex:includeScript value="{!URLFOR($Re
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!URLFOR($Re
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!$Resource.
<apex:includeScript value="{!$Resource.
```

Custom JS in our HTML!

```
<script>
var sfEnv = {};
sfEnv.VFR = {};
sfEnv.sfTheme = '{!JSENCODE(userTheme)}';
sfEnv.isSF1 = sfEnv.sfTheme === 'Theme4t' ? true : false;
sfEnv.forceSites = JSON.parse('{!JSENCODE(forceSitesJSON)}');
sfEnv.linkedRecords = JSON.parse('{!JSENCODE(linkedRecordsJSON)}');
sfEnv.endpointAvailable = '{!JSENCODE(IF(endpointAvailable,"true'
sfEnv.orgId = '{!$Organization.Id}';
sfEnv.fullForm = JSON.parse('{!JSENCODE(fullForm)}');
$(document).ready(function() {
  $('.controls select[multiple]').each(function(index, el) {
    $(el).prop('size',$el.find('option').length);
    $(el).css('max-height','100%');
  });

  // if youreka is disabled or the tooling API endpoint isnt av
  if (sfEnv.asz === 'true' || sfEnv.endpointAvailable==='false')
    if (sfEnv.isLightningExp) {
      sforce.one.navigateToURL('/apex/'+ sfEnv.namespace +
    } else {
      window.location.href='/apex/'+sfEnv.namespace+'GetSta
    }
  }

  // Init photo gallery with $Resource.lightgallery
  $(".gallery-scroll-view").lightGallery();
});
</script>
```


JavaScript Tools



webpack



JavaScript Tools



webpack

BABEL



JavaScript Tools

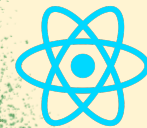


webpack

BABEL



jQuery
write less, do more.



Up And Running

Prerequisites:

- Salesforce Dev Org
- Create MavensMate Project
- Have Node and NPM installed

Copy `package.json` and `webpack.config.js`

Run NPM Install



Start Optimizing

JS packages installed from NPM

- Eliminate tons of script tags!

Move Inline JS to its own file

- Separate our concerns!

Start up the local server

- No server saves!



Deploy For Production

Minify your JavaScript

Push to Static Resource

Point Page back to Static Resource



Resources

<https://github.com/dfattlar/Dreamforce17-JS-Toolbox>

<https://webpack.github.io/docs/>

<https://nodejs.org/en/>

<http://es6-features.org/>

<https://github.com/joeferraro/MavensMate>

<https://babeljs.io/>



Thank You



<https://github.com/dfattlar/Dreamforce17-JS-Toolbox>