



The Assets Gem

**The Shopify experience in every
app**

The problem

We've invested so much time and effort into giving the admin a great UI. How do we share this with other apps without repeating ourselves?

Two solutions

- 1. Move common front end assets to another place, consume it from the admin and other apps**
- 2. Copy common assets from the admin to another place to share with apps**

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- 1. *Move* common front end assets to another place, consume it from the admin and other apps**
- 2. *Copy* common assets from the admin to another place to share with apps**

We have a lot of apps now!

- channels: Facebook, Twitter, Pinterest, Buy Button, Amazon, Facebook Messenger**
- embedded apps: Digital downloads, Wholesale, Barcode printer, Shopify Scripts, Bulk Discounts**
- integrations: Accounting, UberRUSH, Avalara**
- experiments: React Reports**

Github search: `shopify_assets user:shopify filename:Gemfile`

Move

Relocating the most global and shared assets to a common dependency of all apps that need the admin styles: fonts, layout, the grid, forms, etc.

- Central location for all assets, no duplication**
- Slows down development of the admin:
developers need to make changes in a different repository and then update the dependency in the admin**




Copy

Copy assets to a different repository as external apps need them

- Doesn't affect admin development**
- Slows down development of apps: something broken in the admin needs to be fixed there then propagated to apps via dependency**
- Forget backwards compatibility**

Some history

Added fonts, basic initial assets

 master  v3.3.1  3.2.8

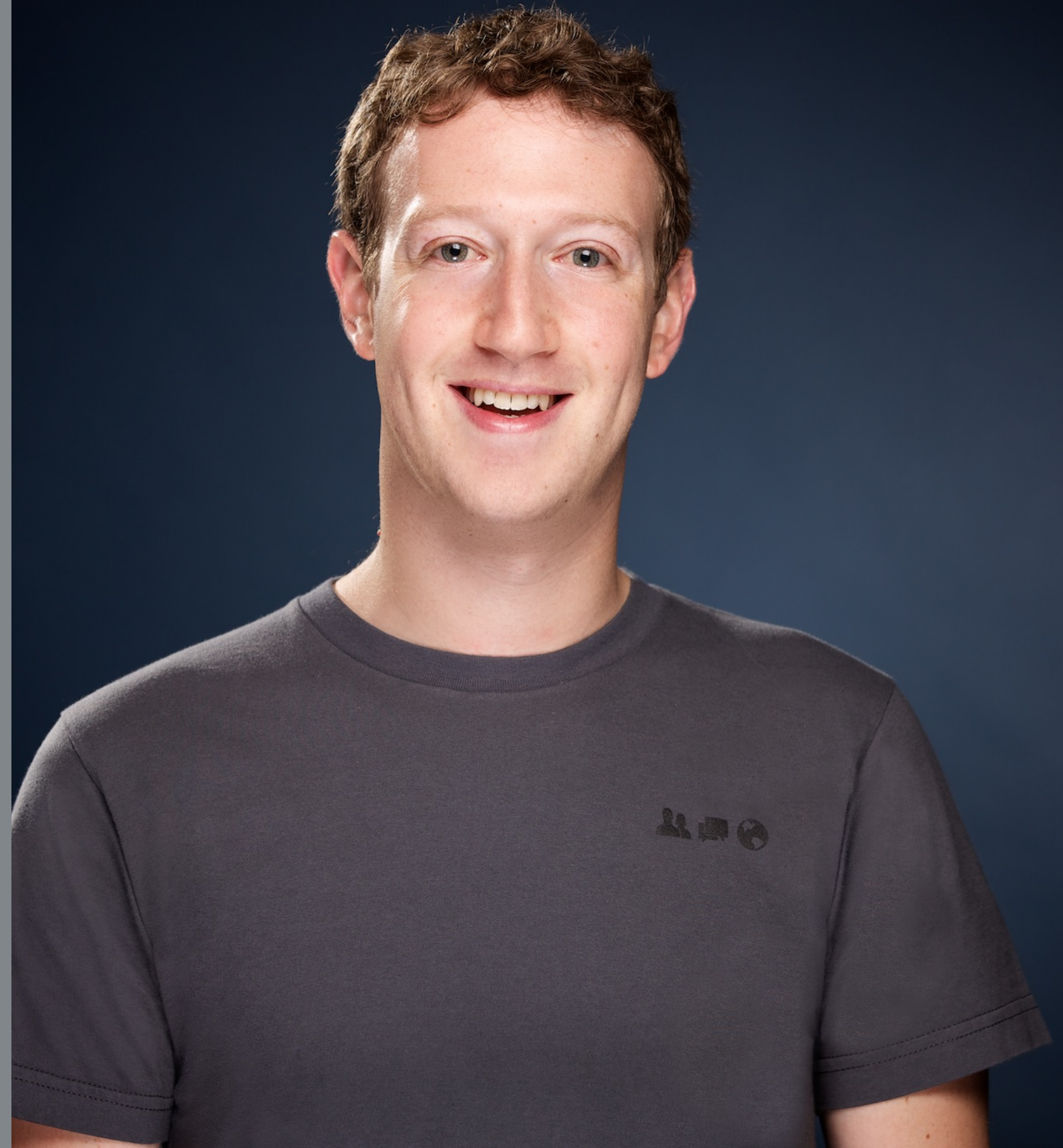


christopherlobay committed on Mar 14, 2013

V1

- **beloved admin2 assets**
- **also contained assets used on brand sites**

**Then came
Facebook and
Buy Button**



V2

- Automate the process as much as possible
- Make UI Components work in apps
- Reduce the amount of assets included in each app's application bundle

The process

- 1. We maintain a whitelist of files we want out of the admin.**
- 2. We copy these files into the gem**
- 3. Release a new version**
- 4. Update in consuming apps**
- 5. Rinse**
- 6. Repeat**

143 lines (136 sloc) | 3.96 KB

No coverage

Raw

Blame

History



```
1  js:
2    source: 'app/assets/javascripts/admin'
3    destination: 'vendor/assets/javascripts/shopify_assets'
4    files: [
5      'lib/dropdown.coffee',
6      'lib/element_queries.coffee',
7      'lib/html.coffee',
8      'lib/money.coffee',
9      'lib/number.coffee',
10     'lib/time.coffee',
11     'initializers/orphan_element_queries.coffee',
12     'initializers/icon_symbols.coffee',
13     'initializers/tooltip.coffee',
14     'initializers/notice_focus.coffee',
15     'modules/dashboard/channel_dashboard.coffee',
16     'modules/dashboard/channel_bar_graph.coffee',
17     'modules/dashboard/dashboard.coffee',
18     'modules/dashboard/dashboard_token.coffee',
19     'modules/dashboard/pos_product_table.coffee',
20     'modules/dashboard/kpi_multi_time.coffee',
21     'modules/home/time_transformer.coffee',
22     'modules/keycodes.coffee',
23     'modules/mixin.coffee',
24     'modules/breakpoints.coffee',
25     'modules/next-tab.coffee',
26     'modules/ui_popover.coffee',
27     'modules/ui_accordion.coffee',
```

What's included

- **UI Components**
- **Core CSS and Javascript**
- **SVGs**
- **Dependencies like Twine, Turbograft, Lodash, jQuery. Anything we need to replicate the Shopify UI**

What's not included

- **Area-specific CSS and JS**
- **old Data URI icons**

A note about versions

We're using this weird format for versions in the gem:

9.2.1.shopify-41a4fd1735d4fc7378fe463cb527598dc0d60869

Getting set up

1. Include the assets gem in your Gemfile

```
gem 'shopify_assets',  
  git: 'https://shopify-  
dep:<key>@github.com/Shopify/assets'  
tag:  
'9.2.1.shopify-41a4fd1735d4fc7378fe463cb  
527598dc0d60869'
```

1. Import the base styles into your

`application.scss:`

```
@import 'shopify_assets/assets-base';
```

2. Include some JS to help you use Shopify JS outside the admin:

```
#= require shopify_assets/channel
```

```
window.channel = new Channel.app()
```

```
channel.init()
```

```
channel.initTurboGraft()
```

Using admin styles

Import stylesheets as necessary:

```
@import 'shopify_assets/modules/ui-banner';  
@import 'shopify_assets/modules/next-headings.scss';
```

Use UI components in your views!

```
<%= ui_banner(status: 'error') do |banner| %>
  <% banner.title 'My cool banner' %>
  <% banner.content do %>
    <p>Cool banner content.</p>
  <% end %>
<% end %>
```

Problems

- **No Backwards compatibility.** Updating the gem in your project could break *anything*.
- **Not many tests.** We ensure that the assets we bring in compile, but we're not copying over any of the unit tests from admin.
- **Some components that depend on pieces of shopify don't work yet.**

Contributions welcome!

Keeping up with the assets gem

Visit us in #assets-gem

Keep up with new versions on the github releases page: <http://github.com/shopify/assets/releases>

Questions?