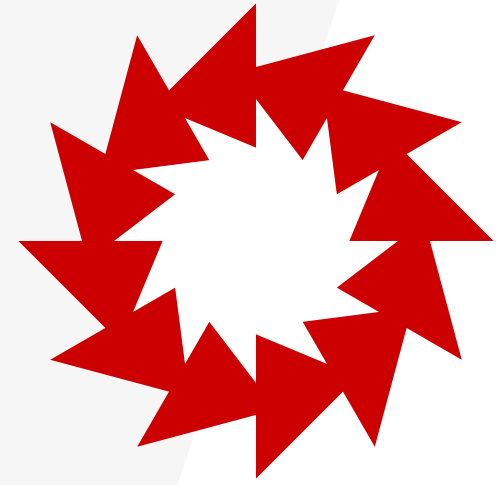


# **Cheaper by the Dozens**

**Building Drupal Websites En Masse**

JAMES NETTIK



ATEN

# James Nettik

FRONT-END DEVELOPER  
@JNETTIK





**ATEN**

@atendesign / aten.io



Stanford  
University



# Work That Matters



Poynter.



Berkeley  
UNIVERSITY OF CALIFORNIA



WORLD  
RESOURCES  
INSTITUTE

Stanford  
University



UNIVERSITY of  
DENVER



THE WORLD BANK  
Working for a World Free of Poverty

Poynter.



JOHNS HOPKINS  
BLOOMBERG  
SCHOOL of PUBLIC HEALTH



USAID  
FROM THE AMERICAN PEOPLE

Berkeley  
UNIVERSITY OF CALIFORNIA



Stanford  
University



**A BRIGHTER**



Povnter.

**TOMORROW**



Berkeley  
UNIVERSITY OF CALIFORNIA

# Thinking in Groups

What problems come up when steering dozens of projects simultaneously?



“ Mo’ websites,  
mo’ problems.

- The Notorious B.I.G.





# Starting Guidelines

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- Be prepared to (politely) push back against single instance requests.

# Starting Guidelines

- Resist mixing code/configuration and site content.
- Keep scope as small and simple as possible.
- For every feature ask: “How many websites on the platform will use this?”
- Be prepared to (politely) push back against single instance requests.
- Test a fresh install after every new feature built and before every deployment made.

# Installation Profiles

Because clicking the same buttons on every project gets old fast.



**What are install profiles?**



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- Bundled dependencies, content types, displays, functionality, content, and themes to start a new project with.

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- Bundled dependencies, content types, displays, functionality, content, and themes to start a new project with.
- Similar to Drupal modules in most ways.
- Uses a `.profile` file for core functionality instead of a `.module` file.
- Generally used as a starting point to work off of.

# Distributions

Empowering others with our laziness.



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- An Installation Profile released to be used by others.
- Often released bundled with dependencies and downloaded.
- Can be scaffolded using `composer create-project`.



```
$ composer create-project drupal-composer/drupal-project:8.x-dev some-dir --stability dev --no-interaction
```

**INSTALL WITH COMPOSER**



```
{  
  "require": {  
    "burdamagazinorg/thunder": "~8.2",  
    "cweagans/composer-patches": "^1.6",  
    "drupal-composer/drupal-scaffold": "^2.2",  
    "drupal/console": "^1.2",  
    "composer/installers": "^1.2",  
    "drush/drush": "~8.0|^9.0.0-beta8",  
    "oomphinc/composer-installers-extender": "^1.1",  
    "webflo/drupal-finder": "^1.0.0",  
    "webmozart/path-util": "^2.3"  
  }  
}
```

**THUNDER'S INSTALLER**

```
{
  "require": {
    "burdamagazinorg/infinite_module": "^1.0",
    "burdamagazinorg/infinite_theme": "^1.0",
    "composer/installers": "^1.0",
    "cweagans/composer-patches": "~1.0",
    "drupal/amp": "1.1",
    "drupal/amptheme": "~1.0",
    "oomphinc/composer-installers-extender": "^1.1",
    "drupal/access_unpublished": "^1.0",
    "drupal/adsense": "^1.0",
    "drupal/admin_toolbar": "^1.0",
    "drupal/better_normalizers": "^1.0",
    "drupal/blazy": "^1.0",
    "drupal/breakpoint_js_settings": "^1.0",
    "drupal/checklistapi": "^1.0",
    "drupal/core": "^8.5.0"
  }
}
```

**THUNDER'S REQUIREMENTS**

# What are distributions?

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- Can be scaffolded using `composer create-project`.
- Get updates and new features from maintainers.

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- An Installation Profile released to be used by others.
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- Can be scaffolded using `composer create-project`.
- Get updates and new features from maintainers.
- `drupal-org.make` files for bundling through [drupal.org](https://drupal.org)



```
core = 8.x
api = 2
projects[access_unpublished][type] = module
projects[access_unpublished][version] = 1
projects[admin_toolbar][type] = module
projects[admin_toolbar][version] = 1
projects[adsense][type] = module
projects[adsense][version] = 1
projects[amp][type] = module
projects[amp][version] = 1.1
projects[amp][patch][] = https://www.drupal.org/files/issues/missing_schema_for-2878769-3.patch
projects[amptheme][type] = theme
projects[amptheme][version] = 1
projects[better_normalizers][type] = module
projects[better_normalizers][version] = 1
```

**DRUPAL MAKE FILE**

# Planning the Project

Balancing the needs of many vs. the needs of a few.







# **Flexible Content and Design**

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- Paragraph module allows for providing **controlled** flexibility back to admins and content manager.

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- Paragraph module allows for providing **controlled** flexibility back to admins and content manager.
- Background Images Formatter module is great for allowing control over banner style images usually handled in CSS.

# Branding

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## Override Global Settings

### Page element display

### Logo image

### Favicon

Use the logo supplied by the theme

#### Path to custom logo

Examples: `logo.svg` (for a file in the public filesystem), `public://logo.svg`, or `profiles/sp_base/themes/custom/sp_brand/logo.svg`.

#### Upload logo image

No file chosen

If you don't have direct file access to the server, use this field to upload your logo.

**DRUPAL LOGO CONFIG**



```
/**
 * Implements theme_preprocess_block().
 */
function sp_brand_preprocess_block__system_branding_block(&$variables) {
  $theme_settings = $variables['theme']['settings'];
  $logo_style = \Drupal::entityTypeManager()->getStorage('image_style')->load('site_logo');

  // If we're not overriding the logo, pass in the global SP logo from the
  // install profile config.
  if ($theme_settings['logo']['use_default'] && !is_null($logo_style)) {
    $profile_config = \Drupal::config('sp_base.settings');
    $logo_path = $profile_config->get('assets_uri') . DIRECTORY_SEPARATOR . $profile_config->get('default_logo');
    $variables['site_logo'] = $logo_style->buildUrl($logo_path);
  }
  // Otherwise we pass the provided logo through the image style.
  elseif (!is_null($logo_style)) {
    $variables['site_logo'] = $logo_style->buildUrl($theme_settings['logo']['path'] ?: $theme_settings['logo']['url']);
  }

  // Fix issues with absolute URLs.
  $variables['site_logo'] = file_url_transform_relative($variables['site_logo']);
}
```

**DRUPAL LOGO OVERRIDE**

# Branding

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- Logos, main colors, and typography are some of the most important items to consider.
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- Drupal Core's Color module can be integrated into themes to expose color schemes to admins.



```
$info = [  
  'fields' => [  
    'primary' => t('Primary Color'),  
  ],  
  'schemes' => [  
    'default' => [  
      'title' => t('Default'),  
      'colors' => [  
        'primary' => '#1e6093',  
      ],  
    ],  
  ],  
  'css' => [  
    'color/overrides.css',  
  ],  
];
```

**COLOR.INC**

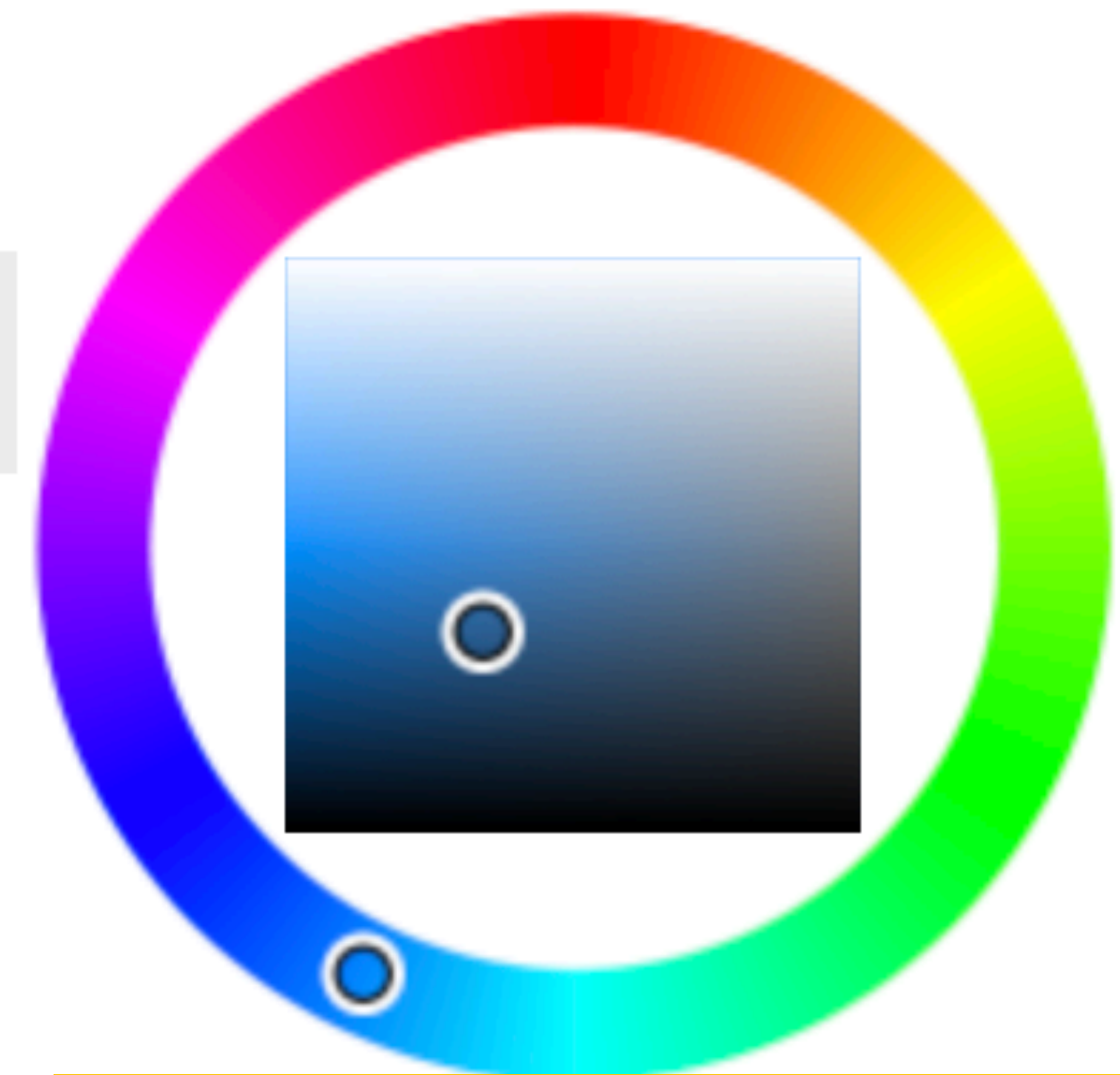
▼ COLOR SCHEME

Color set

Default ▼

Primary Color

#1e6093



COLOR MODULE CONFIG



```
.main-nav__menu-drawer-toggle.active,  
.main-nav__menu-drawer-toggle:hover,  
.main-nav__link.active,  
.main-nav__link:hover {  
  background-color: #1e6093;  
}  
  
.search-list__title {  
  border-bottom: 1px solid #1e6093;  
}  
  
.search-list__title > a:after {  
  border: 1px solid #1e6093;  
}
```

**OVERRIDES.CSS**

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- Drupal Core allows for changing logos through the interface.
- Drupal Core's Color module can be integrated into themes to expose color schemes to admins.
- @FontYourFace module exposes theme font faces into configuration.

[Browse](#)

[Font display](#)

[Settings](#)

[Home](#) » [Administration](#) » [Appearance](#) » [Font Selector](#)

Settings form for @font-your-face. Support modules can use this form for settings or to import fonts.

Load all enabled fonts

This will load all fonts that have been enabled regardless of theme. Warning: this may add considerable download weight to your pages depending on the number of enabled fonts

#### IMPORT

Import from google\_fonts\_api

Import all fonts

Save configuration

@FONTYOURFACE

Browse

Font display

Settings

Home » Administration » Appearance

Name	Font Provider	CSS Style	CSS Weight	Classification	Language/subset	Tags
Open Sans	- Any -	- Any -	- Any -	- Any -	- Any -	- Any -

Apply

**Open Sans 300  
(cyrillic)**  
google\_fonts\_api

AaGg

Disable

**Open Sans 300  
(cyrillic-ext)**  
google\_fonts\_api

AaGg

Disable

**Open Sans 300  
(greek)**  
google\_fonts\_api

AaGg

Disable

**Open Sans 300  
(greek-ext)**  
google\_fonts\_api

AaGg

Enable

**Open Sans 300 (latin)**  
google\_fonts\_api

AaGg

Enable

**Open Sans 300 (latin-  
ext)**  
google\_fonts\_api

AaGg

Enable

**Open Sans 300  
(vietnamese)**  
google\_fonts\_api

AaGg

Enable

**Open Sans 300 (italic)**  
google\_fonts\_api

AaGg

Enable

@FONTYOURFACE



Label \*

Machine name: header\_font [\[Edit\]](#)

Label for the Font display.

Font \*

Select the font to use as part of the font style

#### USAGE

If you wish to skip using the font display and add the css directly to your theme, copy/paste the following for the font into your theme css file:

```
font-family: 'Open Sans';  
font-style: normal;  
font-weight: 300;
```

Fallback fonts

Fallback fonts in case selected font fails to load.

Preset Selectors \*

Use preset selectors to easily display your font.

Theme \*

Select theme this display will work for.

Save

@FONTYOURFACE

# Hosting and Infrastructure

The needs of many vs. the needs of one.



# Pantheon Upstreams

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- Git repository used to create new Pantheon websites in a single click.

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- Pantheon manages their own Upstreams of Drupal 7 and 8 cores.
- Updates to websites can be deployed through the Upstream.

## There is 1 upstream update available

Last checked: a few seconds ago [Check now](#)

- Run update.php after pulling the update
- Auto-resolve conflicts. This attempts to automatically resolve conflicts in favor of the upstream Git repository. If you are not patching core, this is safe to use.

Apply Updates

### Commits



Update to Drupal 8.5.4. For more information, see <https://www.drupal.org/project/drupal/releases/8.5.4>

From Pantheon Automation, 18 days ago

**PANTHEON UPDATES**

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- Pantheon manages their own Upstreams of Drupal 7 and 8 cores.
- Updates to websites can be deployed through the Upstream.
- Organization accounts can create their own custom Upstreams.

# Custom Upstreams

+ Add New Upstream

Custom Upstreams save you time by using an external repository as a common start state for sites. Updates pushed to the upstream repository will be available to all sites using that upstream. For more detail, visit our [Introduction to Custom Upstreams](#) documentation.



ATEN

## Aten D8 Composer

Based largely on Pantheon's example-drops-8-composer repo. This pulls in utilities, a more robust composer.json file and Aten's D8 install profile.

Settings

Create Site from Upstream



ATEN

## Aten D8 Non-Composer

Pantheon allows users to add files/directories outside the webroot now. This upstream simply takes advantage of that.

Settings

Create Site from Upstream

PANTHEON UPSTREAMS

# Pantheon Terminus CLI

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# Pantheon Terminus CLI

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- Terminus can execute Drush commands on Drupal websites, without the use of Drush Aliases.
- Permissions to websites are controlled by your individual Pantheon account.
- Limited to being executed on one site and one environment at a time.



# Extending Terminus with Plugins

## Build Tools



Pantheon Official

Author: [Greg Anderson](#)

Create a [GitHub](#) PR Workflow to test Pantheon sites on [CircleCI](#) (or other CI services).

[Get Plugin >](#)

## Composer



Pantheon Official

Author: [Brian Thompson](#)

Run [Composer](#) commands on Pantheon sites.

[Get Plugin >](#)

## Drupal Console



Pantheon Official

Author: [Greg Anderson](#)

Run Drupal Console commands on Pantheon sites.

[Get Plugin >](#)

## Filer

Author: [Sean Dietrich](#)

Open SFTP Connections to your Pantheon Sites.

[Get Plugin >](#)

## Mass Update



Pantheon Official

Author: [Ronan Dowling](#)

Apply upstream updates to a list of sites.

[Get Plugin >](#)

## New Relic



Pantheon Official

Author: [Paul Jebulan de Paula](#)

Fetches metric data from the New Relic API.

[Get Plugin >](#)

## Pancakes

Author: [Dave Wikoff](#)

Open Pantheon Site Databases in your favorite SQL Client.

[Get Plugin >](#)

## Quicksilver



Pantheon Official

Author: [Greg Anderson](#)

Install Quicksilver webhooks from the [Quicksilver examples](#), or a personal collection.

[Get Plugin >](#)

## Rsync



Pantheon Official

Author:

Quick

[Get](#)

**TERMINUS PLUGIN LIBRARY**

# Extending Terminus with Plugins

- Terminus Mass Update gets piped a list of site IDs, loops over them, and pulls in any Upstream updates.



```
$ terminus org:site:list aten-design-group --format=list
```

**TERMINUS SITE LIST**



```
$ terminus org:site:list aten-design-group --format=list | terminus site:mass-update:apply\  
--upstream=9f851236-df42-4b53-a619-61d9939d58ac\  
--updatedb\  
--accept-upstream
```

**TERMINUS SITE UPDATE**

# Extending Terminus with Plugins

- Terminus Mass Update gets piped a list of site IDs, loops over them, and pulls in any Upstream updates.
- Terminus Mass Run adds looping functionality for Terminus commands like: `remote:drush`, `backup:create`, `connection:set`, `env:deploy`, `site:upstream:cache-clear`.



```
$ terminus org:site:list aten-design-group --format=list | terminus remote:mass:drush\  
--upstream=9f851236-df42-4b53-a619-61d9939d58ac\  
--env=dev\  
-- user:create jnettik --email=james@aten.io --password=Snuggles123!
```

**TERMINUS USER CREATE**



```
$ terminus org:site:list aten-design-group --format=list | terminus env:mass:deploy\  
--upstream=9f851236-df42-4b53-a619-61d9939d58ac\  
--env=test\  
--updatedb\  
--sync-content  
--cc  
--note="Made home page pop more as requested."
```

**TERMINUS DEPLOYMENT**



# Acquia Cloud Site Factory

- Leverages Drupal multi-site functionality.
- Similar workflow to the Aegir project

# Barebones approach with Composer

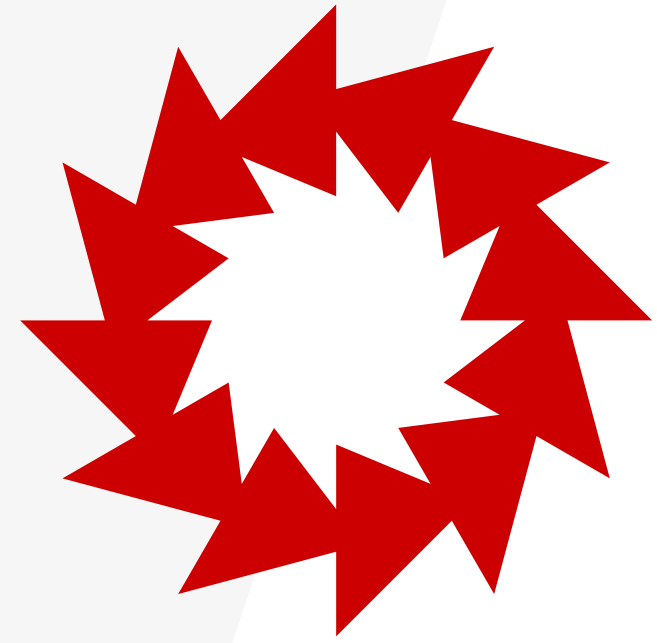
- Install Profiles can be updated with Composer like any module.
- Install Profiles can use `hook_update_N()` like modules.

# Thanks!

**James Nettik**

james@aten.io

@jnettik



**ATEN**

@atendesign | aten.io

SLIDES

**<http://bit.ly/jnettik-install-profiles>**