# The Composer Workflow

@gobinathm

# Hello There !

I Am Gobinath Mallaiyan working at TATA Consultancy Services

I know a thing or two about the composer workflow for Drupal and want to share them with you.

Find at @gobinathm (Around the internet)

# Agenda

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- What is composer

- Semantic versioning

- How to Migrate your non composer managed site

- Patching Via Composer

- My Improvised Composer Workflow - Tried & Tested

# What is composer

1

- Composer is a command-line tool for dependency management in PHP
- Its not Used Only for Drupal
- Allows declaration of the libraries / dependencies & install / updates them
- Composer is not a package manager in the same sense as Yum
- Composer is strongly inspired by node's npm and ruby's bundler
- Drupal 8 uses it to build the application
- Now Drupal 8.8 have better composer support.

- Composer.json file describes the dependencies of a project & some additional meta data.
- Composer.lock file defines the result of composer.json & locking the project to those specific versions.
- Packages are downloaded into a vendor directory
- composer Commands

$ composer init
$ composer install
$ composer require vendor/package
$ composer require Dev
$ composer update
$ composer update drupal/console
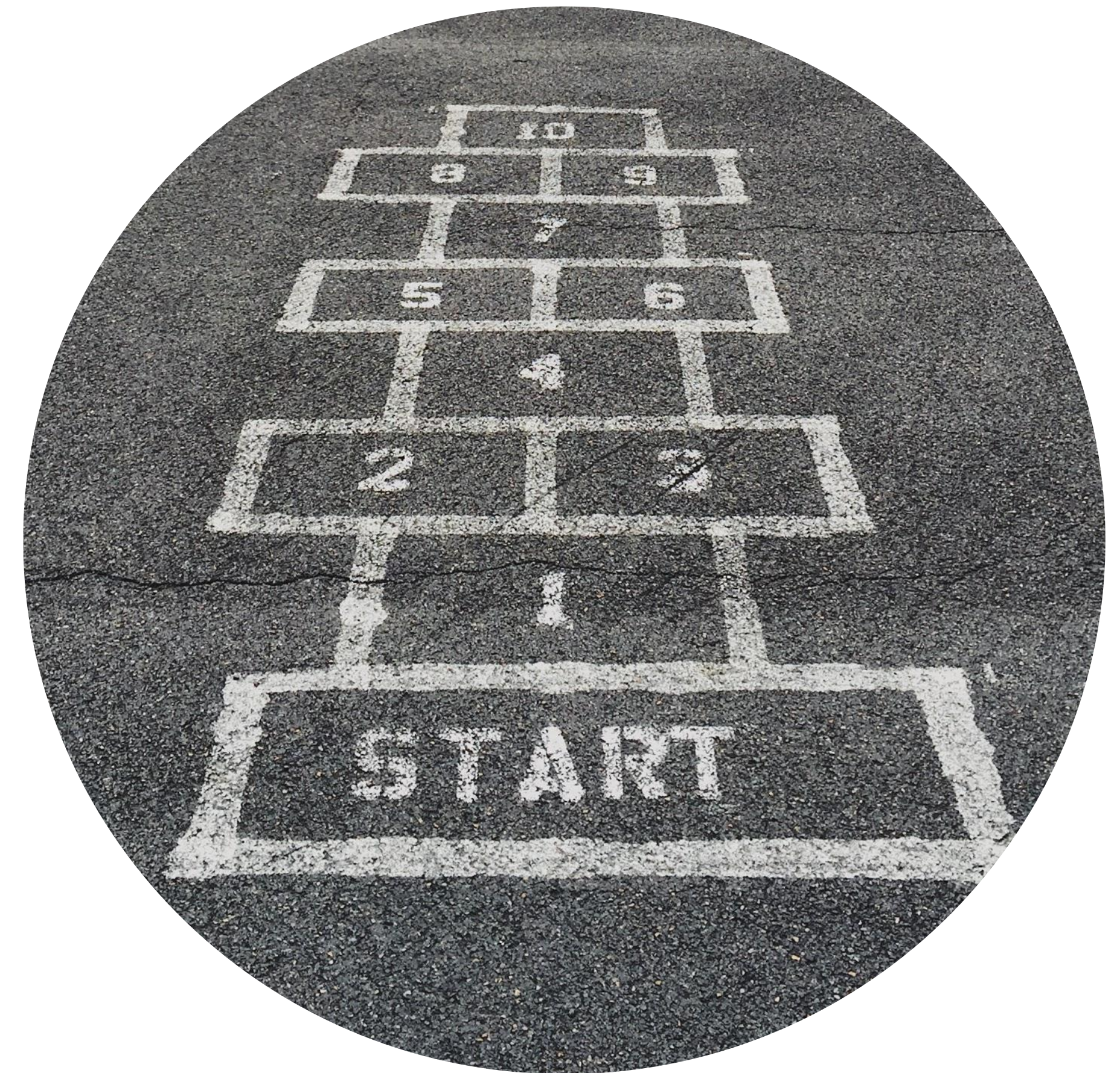$ composer update drupal/ctools drupal/pathauto

# Semantic versioning

2

- Given a version number MAJOR.MINOR.PATCH
- MAJOR version when you make incompatible API changes,
- MINOR version when you add functionality in a backwards compatible manner, and
- PATCH version when you make backwards compatible bug fixes
- Allows to release feature updates in minor releases (8.1, 8.2, etc) with backwards compatibility.

https://semver.mwl.be/#!?package=madewithlove%2Felasticsearcher&version=%5E0.5.2&minimum-stability=stable

- Version Constraints

| Exact | 8.8.0 | 8.8.0 |
|---|---|---|
| Wildcard | 8.8.* | 8.8.0, 8.8.1, etc |
| Range | >=8.7 <8.8 | 8.7.0, 8.7.9, etc |
| Stability constraint | 8.8.x-dev | Unstable(dev) branch 8.7.x |
| Increment last digit | ~8.8.0 | 8.8.0, 8.8.1, etc |
| Increment last two | ^8.8.0 | 8.8.x, 8.9.x,etc |

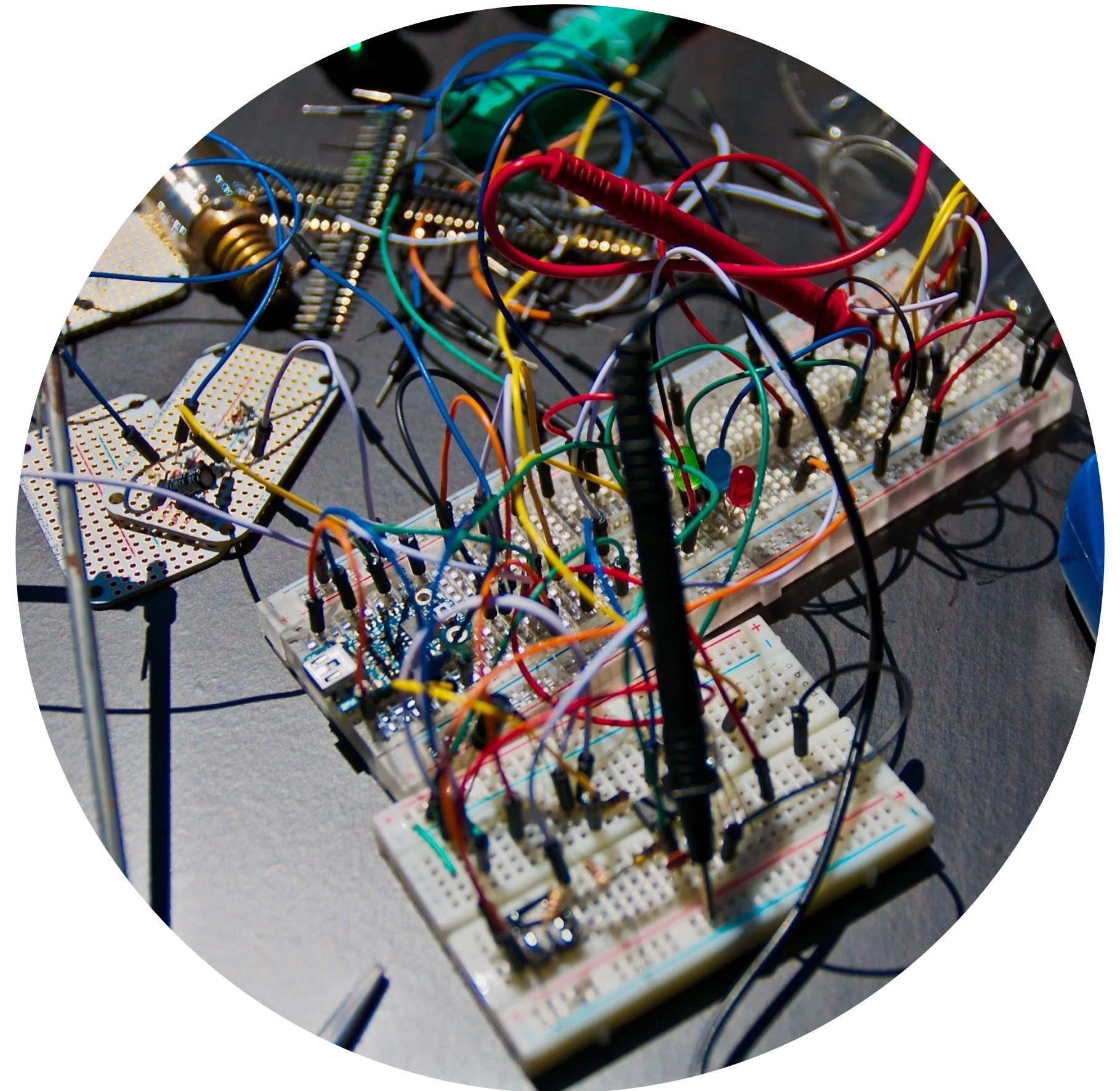https://getcomposer.org/doc/articles/versions.md

Migrate your non composer managed site

3

- Install new Drupal site using the current Composer template (Drupal 8.8) in a new directory.
- Copy all custom themes, modules, files, and settings
- Transfer settings to the new project.
- Add all contributed modules to the new composer.json file and run composer install.

# Demo - Patching Via Composer

4

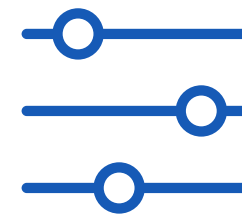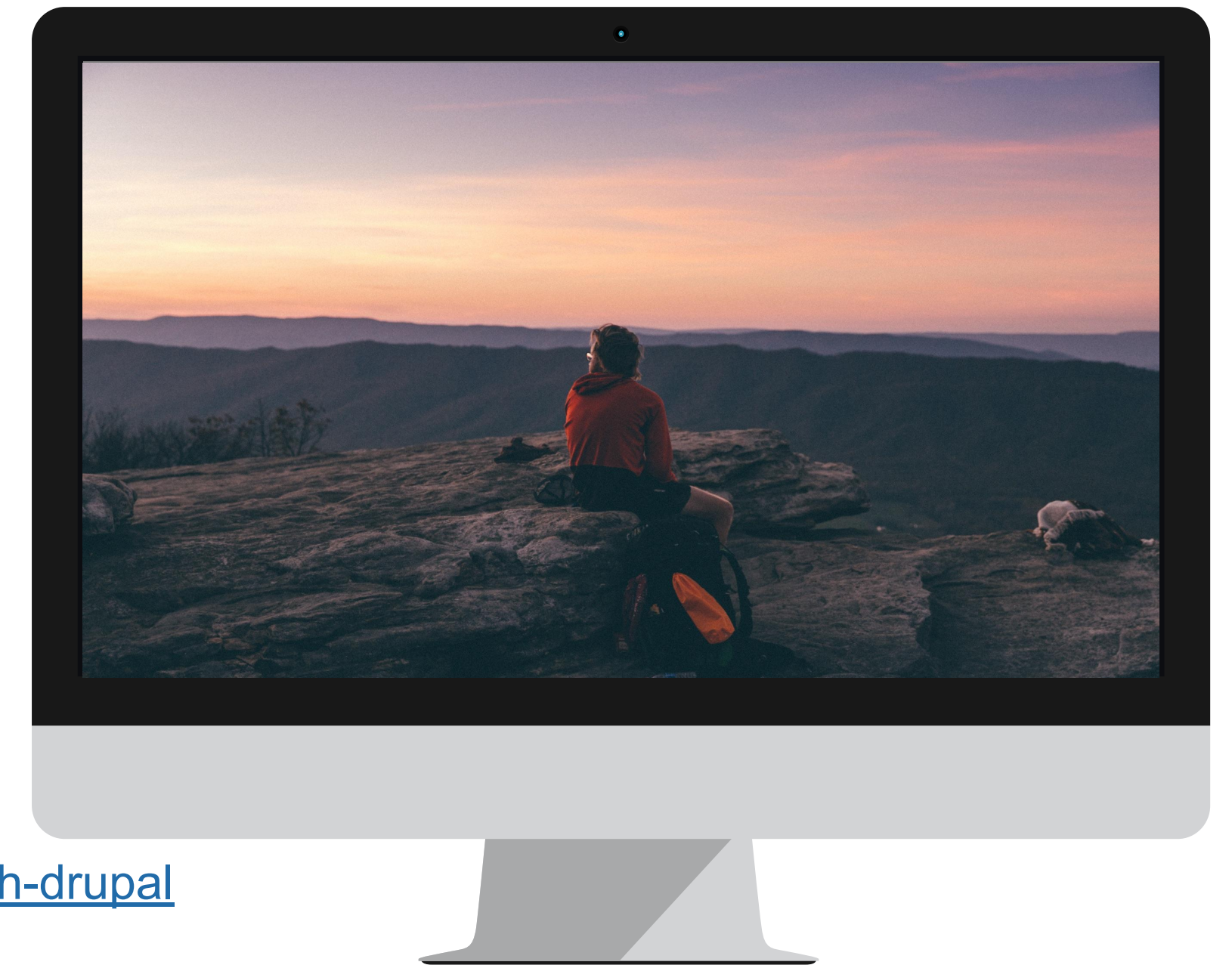# Demo of Composer Workflow - Tried & Tested

5

QnA

6

# Reference

- Install Composer @ https://getcomposer.org/doc/00-intro.md#installation-linux-unix-macos
- Semantic Version Search : https://semver.mwl.be/
- Version Constrains : https://getcomposer.org/doc/articles/versions.md
- My Composer Workflow Template : https://github.com/gobinathm/drupal8-quickstart
- Composer Extra for additional Config: https://getcomposer.org/doc/04-schema.md#extra

# D.O Content

- Using Composer with Drupal - https://www.drupal.org/docs/develop/using-composer/using-composer-with-drupal
- Starting a Site Using Drupal Composer Project Templates - https://www.drupal.org/docs/develop/using-composer/starting-a-site-using-drupal-composer-project-templates
- Add Composer to an existing site - https://www.drupal.org/docs/8/install/add-composer-to-an-existing-site

# Thanks!

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