

Laravel/Symfony Console

PHP CLI

- CGI/CLI
- Usage: Developing Shell Applications
- CLI Parameters: `$argv` *and* `$argc`
- `#!/usr/bin/php` *or* `php script.php`

Review

- <http://www.php.net/cli>

Composer

- `/vendor/autoload.php`
- `spl_autoload_register([ClassLoader, 'loadClass'])`
- Auto Class Loader
- `composer.json`
- Not `include/require/include_once/require_once`

Review

- <https://getcomposer.org/doc/>

Application Architecture

- CLI: Argv Input -> Console Kernel -> Terminal Output
- CGI: Http Request -> Http Kernel -> Response

Console Kernel

- `$kernel->getConsoleApplication()->run($argv_input, $output);`

Console Application

- Register Multiple Commands: `$app->add($command)`
- Run a Command: `$app->run($input, $output)`
 - (1) resolve a command object by `$input`
 - (2) run a command
 - (3) output message by `$output`

Review

- https://symfony.com/doc/current/components/console/single_command_tool.html

Container

- \Illuminate\Foundation\Application::class
- Dependency Injection
- Auto Build a *Console Kernel Object*

Review

- https://symfony.com/doc/current/service_container.html
- <https://laravel.com/docs/5.4/container>

CLI Description Language

- <http://docopt.org/>

Command Signature

- {name} {arguments} {options}
- Pass dynamic information by {arguments} or {options} to the {name} command
- Ordered, Required, Optional

Console Input

- Arguments
- Options

Arguments

- `\Symfony\Component\Console\Input\InputArgument::class`

Options

- `\Symfony\Component\Console\Input\InputOption::class`

Review

- <https://symfony.com/doc/current/console/input.html>
- https://symfony.com/doc/current/components/console/console_arguments.html

Console Output

- Color and Style Output

Helpers

- Question Helper
- Progress Bar Helper
- Table Helper

Review

- <https://symfony.com/doc/current/components/console/helpers/index.html>
- <https://symfony.com/doc/current/components/console/helpers/progressbar.html>

Console Events

- Symfony
 - 'console.command'
 - 'console.error'
 - 'console.terminate'
- Laravel
 - \Illuminate\Console\Events\ArtisanStart::class

Review

- <https://symfony.com/doc/current/components/console/events.html>