Happy developing in SaaS
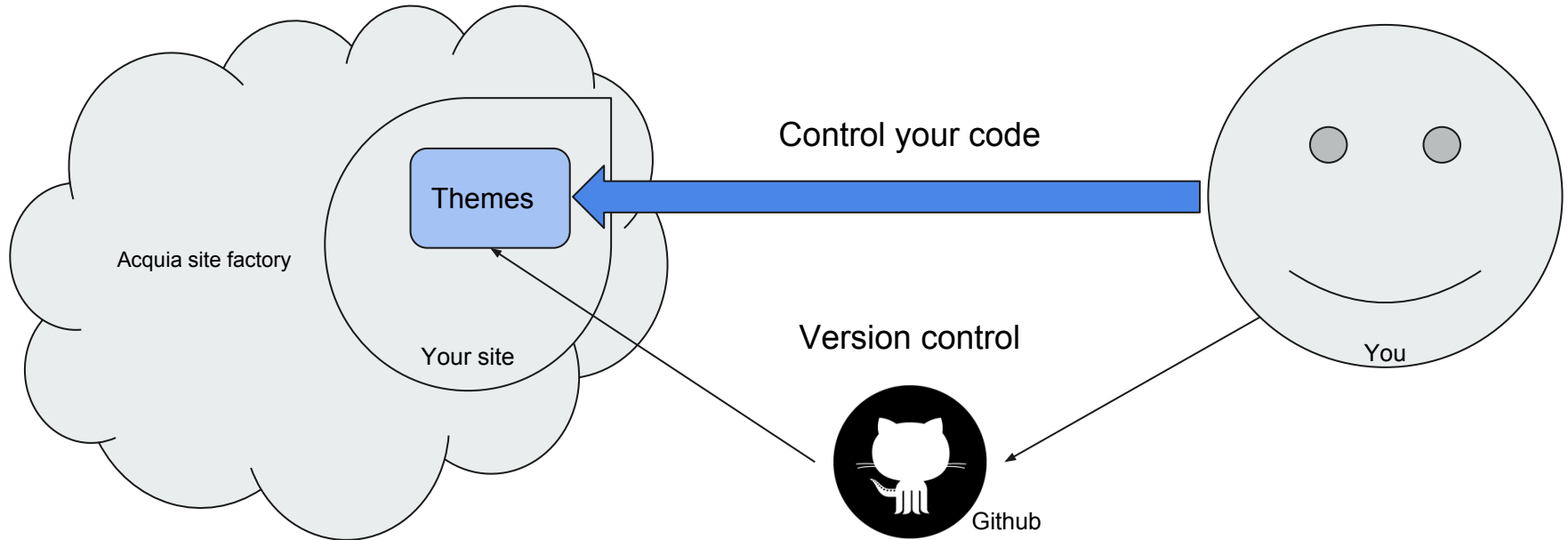
An improved developer experience from Department of Health

The govCMS SaaS we know

Theme is everything

Acquia site factory

Themes

Your site

Control your code

Version control

Github

You

Theme is everything

the good

- "What is a patch?"
- "Drupal core update?"
- "I don't know anything about server"
- "I love github -- developing workflow"

Theme is everything

- "What a patch!!!"
- "I do know anything about server"
- "Who gives a SSH …"
- "What a module!!!"

Theme is everything

- Keep calm and clear the cache
- Deploy a change from github
- The hidden permissions
- The forklift
- The debug

Manage site theme repository

Sites › Manage site theme repository

Git URL: git@github.com:healthgovau/healthgovau-theme.git Change site theme repository
Branch or tag: master

Refresh themes

The old switcheroo

The blue/green model

- Easy deployments but...
- No Features module = doubling up dev ... or forklift

The development workflow we know

The problem

The workflow

Working in ACSF

- We prefer to work locally!
- Theme push and refresh ~5 minutes
- Clear cache ~5-10 minutes

Working locally

- We prefer to work locally, but…
- Pulling from ACSF is painful:
    - Backup
    - Download
    - Extract
    - Codebase, theme, files, etc
    - drush uli

Developing features in Drupal

The workflow

1. Set up Vagrant VM
2. Git pull the whole site in local docroot
3. Import DB to VM
4. Developing
5. Git push the code change and deploy to server
6. Change the live DB if necessary

Developing workflow in SaaS

1. Log in to site factory
2. Backup the current site
Frustrating...
3. Download the backup
4. Extract the backup and copy the site code to docroot
5. Remove the themes folder
6. Git clone the theme folder to /sites/all/themes … you know

...

1. Set up Vagrant VM
2. Can't git pull coz it is just the theme
3. Import DB to VM
4. Developing
5. Git push the code change and deploy to server
6. Change the live DB if necessary

Developing workflow in SaaS

1. Log in to site factory
Frustrating...
2. Backup the current site
3. Download the backup
4. Extract the backup
5. Mysql import db.sql to local mysql server

1. Set up Vagrant VM
2. Can't git pull coz it is just the theme
3. Import DB to VM
4. Developing
5. Git push the code change and deploy to server
6. Change the live DB if necessary

Developing workflow in SaaS

Frustrating...

1. Log in to site factory
2. Refresh the theme 5 mins
3. Clear the cache from the UI 5 mins
4. Wait and pray

1. Set up Vagrant VM
2. Can't git pull coz it is just the theme
3. Import DB to VM
4. Developing
5. Git push the code change and deploy to server
6. Change the live DB if necessary

The improvement from Dept of Health

The ideas

- Set up local development environment automatically by commands
- Clear cache without logging into site factory
- Import DB from site factory by command

What we did

A symfony command line tool

- Acquia site factory provides a list of RESTful APIs - https://www.demo.acquia-cc.com/api/v1
- We created a command line tool to wrap the APIs to interact with Site Factory from command line - https://github.com/rujiali/acquia-site-factory-cli

What we did

Using composer to make things fly

- Use composer to install beetbox and the symfony tool we created
- Use composer to import site factory backup to beetbox
- Use composer to re-import backup DB to beetbox
- https://github.com/healthgovau/govCMS-SaaS-vagrant

Demo time

We want PRs !

Contact us

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The libraries we used

- https://www.demo.acquia-cc.com/api/v1
- https://github.com/rujiali/acquia-site-factory-cli