WEB DEVELOPMENT TOOLS IN THE INDUSTRY

ABOUT ME

- **David Flores-Condezo**

- Chief tutor and a lecturer of COMP1710/6780

- 6+ Years experience developing website in the public and private sector.

- **Interests:** Human Computer Interaction (HCI), Web content delivery.
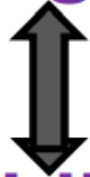
- **Email:** David.flores-condezo@anu.edu.au
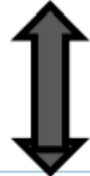
WEB DEVELOPMENT LIFECYCLE

Planning

↓

Designing

↕

Building

↕

Installing

↕
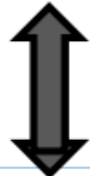
Maintaining

RECAP WEEKS 2 - 4

Website Development Life Cycle

Phase 1 Discovery

Phase 2 Documentation

Phase 3 Design

Phase 4 Development

Phase 5 Deployment

Phase 6 Maintenance

CMS, CRM, INTRANET, SAAS, PAAS AND OTHER BUZZ WORDS

CONTENT MANAGEMENT SYSTEMS (CMS)

- Foundation of an industry standard website

- CMS is a software application that allows users to collaborate in the creation, editing, and production of digital content: web pages, blog posts, etc.

- Facilitate content editing

- Not just HTML and CSS, variety of different technologies

POPULAR CMS

POPULAR CMS

- Wordpress

- Drupal

- Wix

- Squiz

- Adobe Experience and more

SOFTWARE AS A SERVICE (SASS)

- Software as a service (or SaaS) is a way of delivering applications over the Internet—as a service. Instead of installing and maintaining software, you simply access it via the Internet, freeing yourself from complex software and hardware management.

- SaaS applications are sometimes called Web-based software, on-demand software, or hosted software. Whatever the name, SaaS applications run on a SaaS provider's servers. The provider manages access to the application, including security, availability, and performance.

PLATFORM AS A SERVICE (PAAS)

- In the Platform-as-a-Service (PaaS) model, developers essentially rent everything they need to build an application, relying on a cloud provider for development tools, infrastructure, and operating systems.

- PaaS vastly simplifies web application development; from the developer's perspective, all backend management takes place behind the scenes.
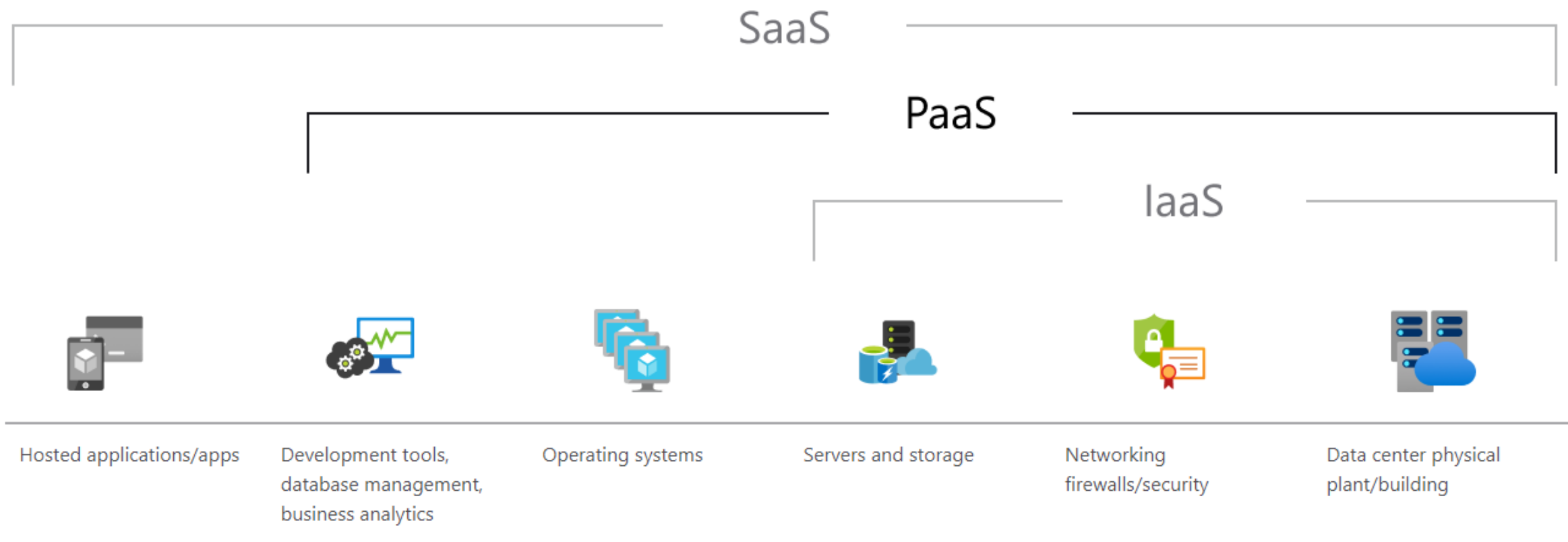
SaaS

PaaS

IaaS

| Hosted applications/apps | Development tools, database management, business analytics | Operating systems | Servers and storage | Networking firewalls/security | Data center physical plant/building |

SAAS VS PAAS

- If a SaaS customer is like someone renting a house, then a PaaS customer is like someone renting all the heavy equipment and power tools necessary to rapidly build a house, if the tools and equipment were continually maintained and repaired by their owner. -- *Cloudflare*

HOSTING

- Where your website lives, where all the files of your website are located.

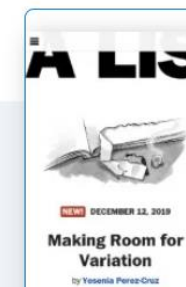- PARTCH is a hosting platform

HOSTING

DEVELOPING FOR CMS

Welcome to the world's most popular website builder.

43% of the web is built on WordPress. More bloggers, small businesses, and Fortune 500 companies use WordPress than all other options combined. Join the millions of people that call WordPress.com home.

Start your website

KELSEY ART

Shop Meet the Team App Map Schools ▾

5 Story NYC Mural

RESUMIDO
POR BRUNO NATAL

Episódios Sobre Contato Apoie o RESUMIDO

#43
Transparente
19 de dezembro de 2019

No RESUMIDO #43: venda seus dados, rede social paga, futebol e segregação, o fim do anonimato, Uber x montadoras, informações tendenciosas, cidade partida, baby Yoda, Além da Imaginação, Cabeça de Papel, agradecimentos e um convidado especial.

00:00   00:00

Spotify   Apple Podcasts

RESUMIDO

A LIS

NEW DECEMBER 12, 2019

Making Room for Variation
by Yesenia Perez-Cruz

Why Drupal? Build Solutions Services Community Resources Give Events **Try Drupal** 🔍 👤

We want to invite you to DrupalCon Prague. The european community is back in person 20-23 September full of insights, information, and connections. Will we see you there?

Register today

Drupal allows you to create a unique space in a world of cookie-cutter solutions

Get Drupal with Composer

You need php and composer. Run these two commands:

```
composer create-project drupal/recommended-project drupal
cd drupal && php -d memory_limit=256M web/core/scripts/drupal quick-start demo_umami
```

More options in the quickstart docs, and on how to start your site using composer.

Want to download Drupal without Composer?
Composer is the recommended method for using Drupal, but you can download Drupal directly and use it with Composer later.

Download Drupal | zip
Download Drupal | tar.gz
read release notes

Looking for Drupal hosting?

Try a hosted demo   Explore Hosting

DRUPAL

THEMES

- The look and feel of your website

- Not just CSS

- Design

- Content Layout

- Sometimes Content specifics (PDFS, MEDIA, ETC..)

MODULES

- The functionality of your website

- Can choose from existing or create your own

- Javascript, Python, PHP…

WORKFLOWS AND PERMISSIONS

- Different types users

- Multiple permissions to set

- Not every user needs access to everything

DEPLOYMENT*

WAS UPLOADING TO PARTCH COMPLICATED?

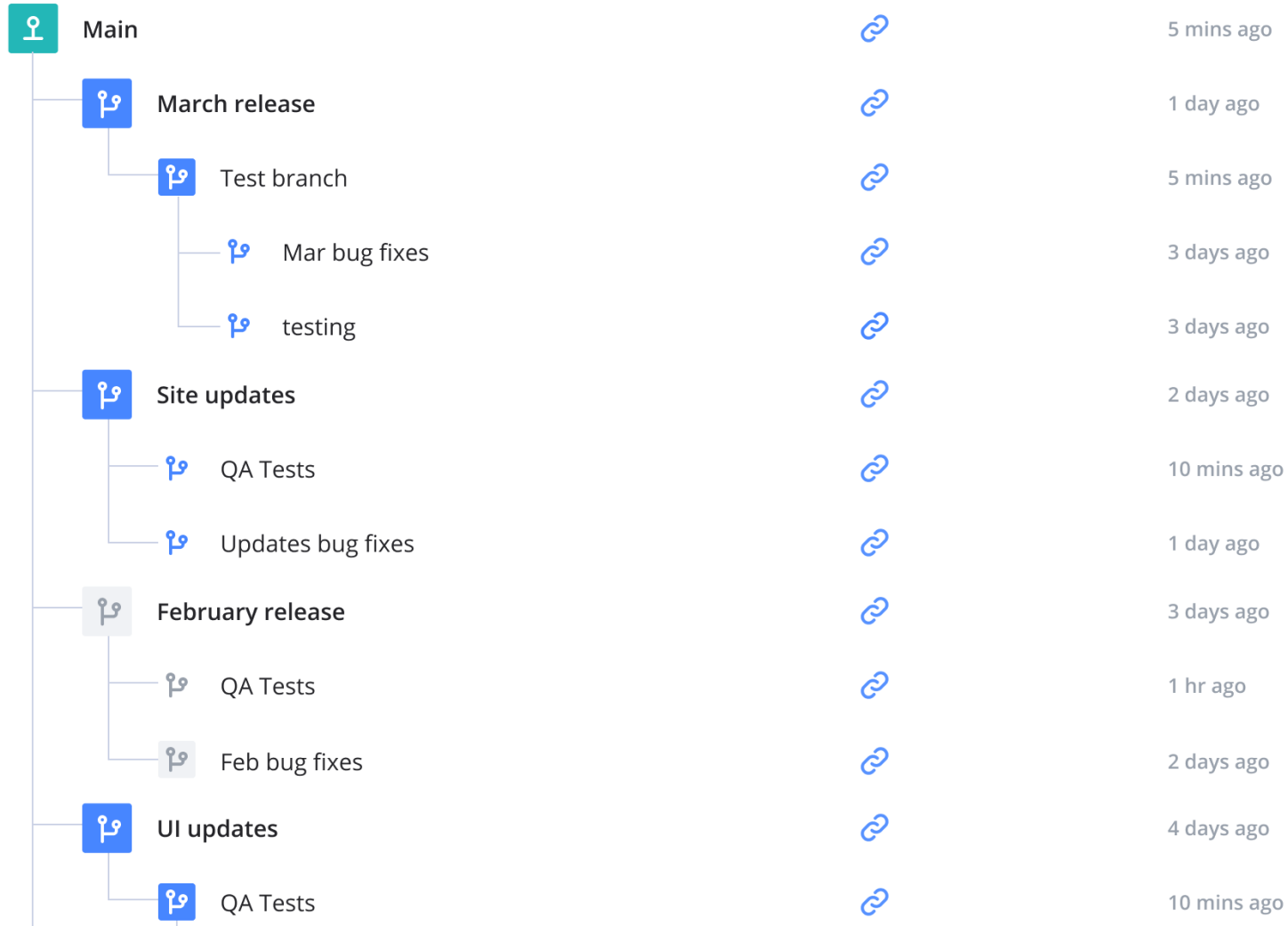# IT'S COMPLICATED

ENVIRONMENTS

Development → Testing/QA → Production

ENVIRONMENTS + CMS

- Scalable
- Multiple databases
- Easy to get out of sync
- Needs management

Environments

- Main — 🔗 — 5 mins ago
  - March release — 🔗 — 1 day ago
    - Test branch — 🔗 — 5 mins ago
      - Mar bug fixes — 🔗 — 3 days ago
      - testing — 🔗 — 3 days ago
  - Site updates — 🔗 — 2 days ago
    - QA Tests — 🔗 — 10 mins ago
    - Updates bug fixes — 🔗 — 1 day ago
  - February release — 🔗 — 3 days ago
    - QA Tests — 🔗 — 1 hr ago
    - Feb bug fixes — 🔗 — 2 days ago
  - UI updates — 🔗 — 4 days ago
    - QA Tests — 🔗 — 10 mins ago

ENVIRONMENTS + CMS EXAMPLE

VERSION CONTROL

VERSION CONTROL

- GIT VERSION CONTROL
- Accountability
- Reverting to previous versions
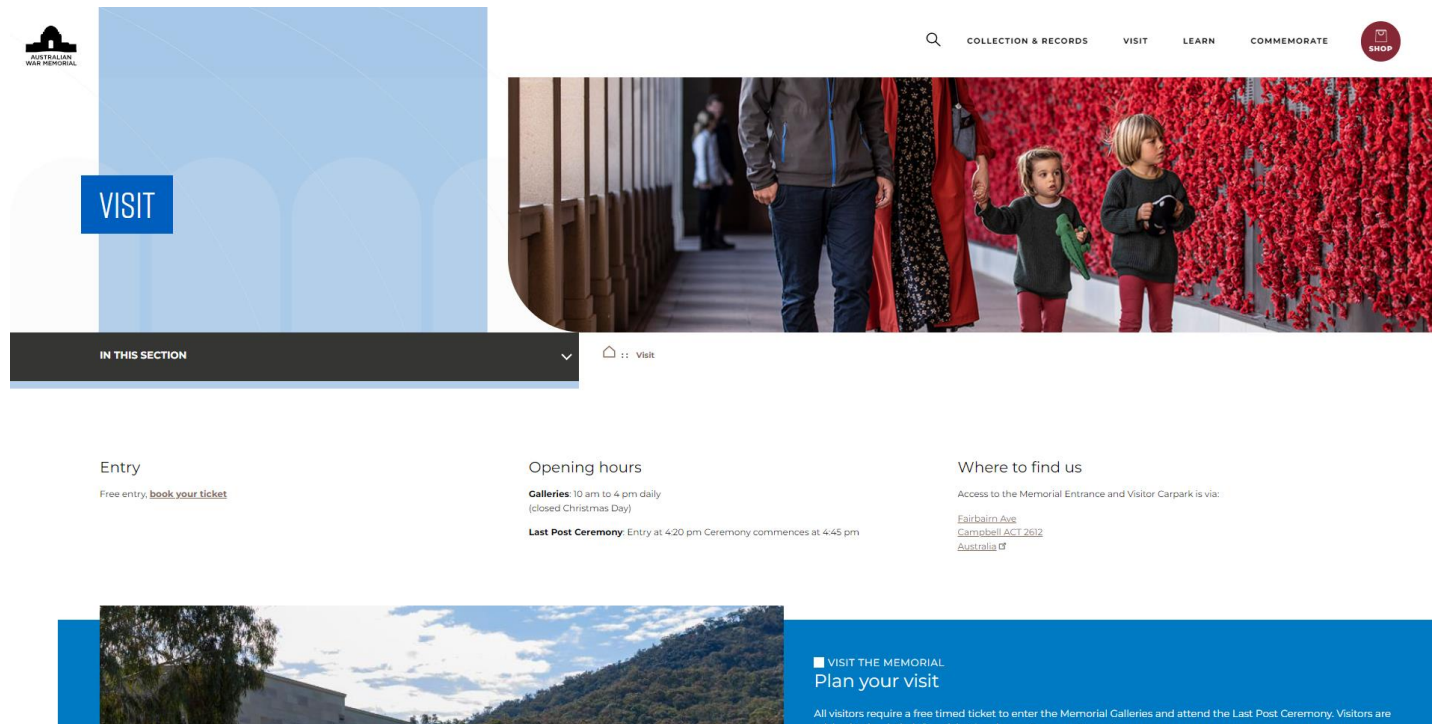- Commit history
- Collaboration

ENVIRONMENTS + CMS + VERSION CONTROL

ENVIRONMENTS + CMS + VERSION CONTROL

CASE STUDY: AUSTRALIAN WAR MEMORIAL

CASE STUDY: AUSTRALIAN WAR MEMORIAL

- Redevelopment
- Discovery
- Requirements
- Design
- Development
- UAT and Remediation
- Deployment
- Training and Documentation

RECAP

- Importance of CMS

- SAAS and PAAS

- Developing in a CMS

- Hosting

- Deployment

Q&A