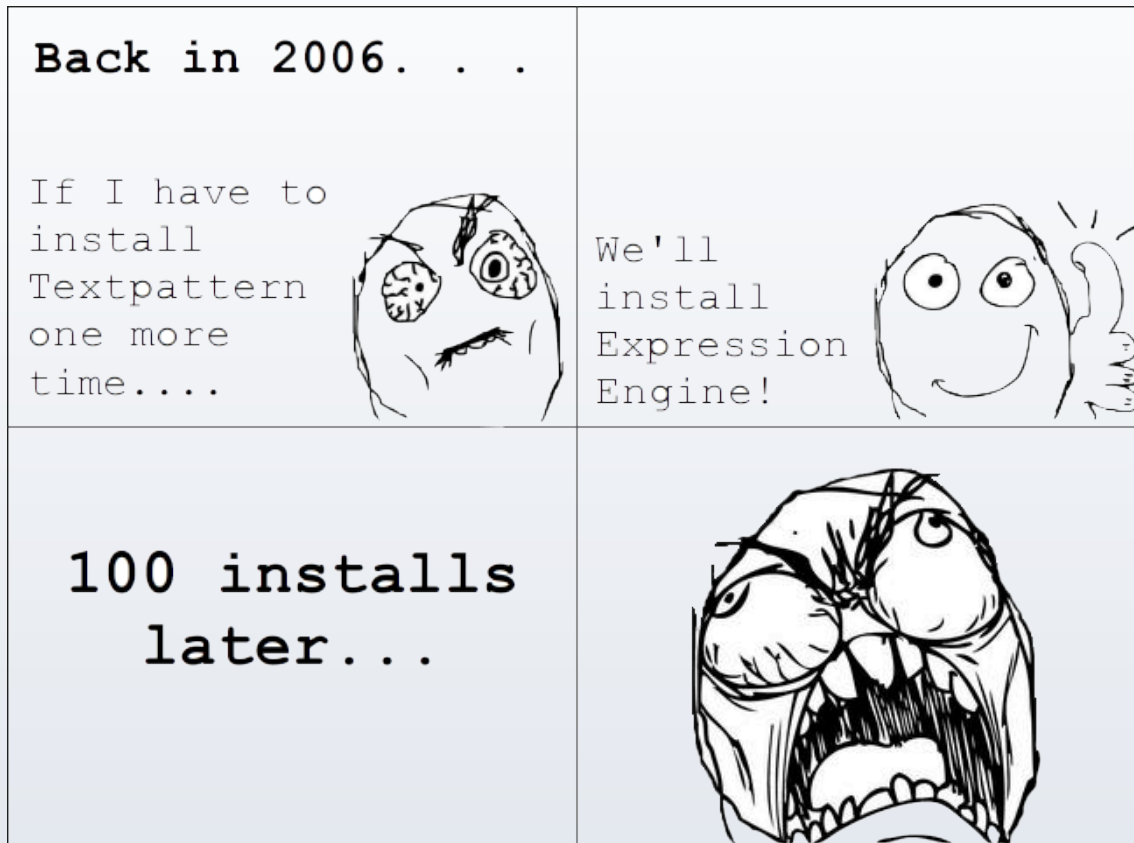


Installing, managing, & hosting over 250 Expression Engine sites

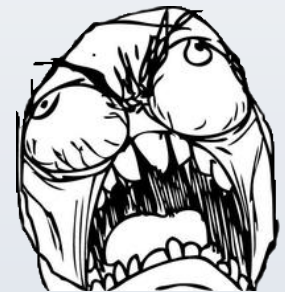
Lowell Kitchen, Software Engineer

BSD and EE at a glance



How we installed over 100 EE sites (and almost went crazy)

- Install EE on staging server using the installation wizard
- Dump database to production db server
- Push EE source code to production web servers using a perl script



Upgrading wasn't easy either

A Database Error Occurred

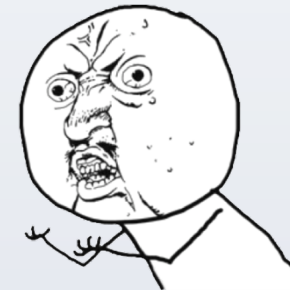
Error Number: 1060

Duplicate column name 'can_access_fieldtypes'

```
ALTER TABLE `exp_member_groups` ADD `can_access_fieldtypes` char(1) NOT NULL DEFAULT 'n' AFTER `can_access_files`
```

[« Back](#)

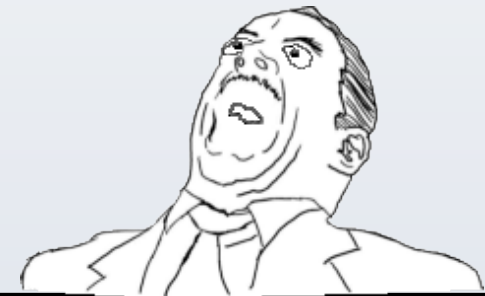
Upgrading...



Y U NO MAKE UPGRADE EASY, ELLIS LABS!!!

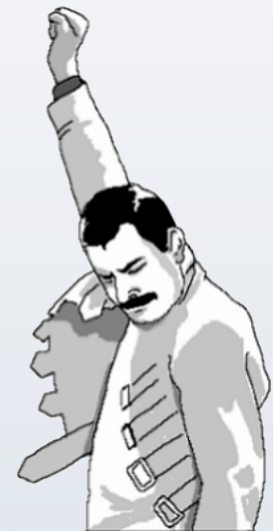
Problems with this approach

- Spending too many developer resources installing and upgrading EE
- Lots of different versions of EE at one time with different configurations (made upgrading and configuration changes harder)



How we got to over 250 installations

- Started using a sEEd (a pre-configured base EE installation)
- New source code architecture on web servers
- Developed a release management tool called bsdrelease for installing and upgrading web apps



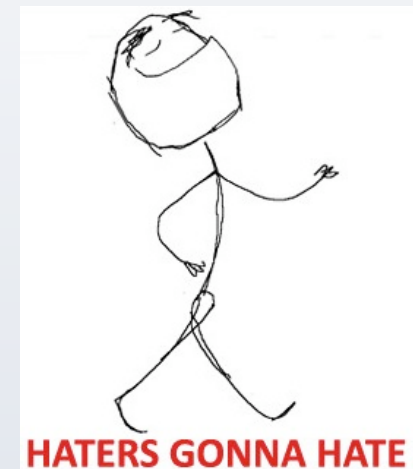
The sEEed

- A database dump of a pre-configured base EE installation
- No longer need to use the install lizard
- Saves at least 2-3 hours of dev time per site



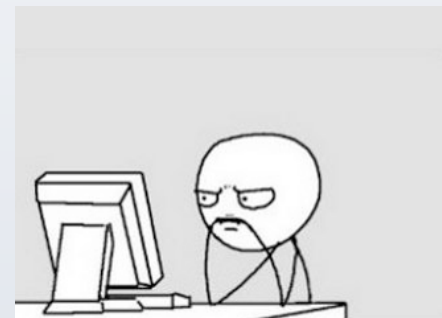
Source code architecture

- One set of files per version on production servers
- Each EE install symlinks to source code directory
- Makes deployments and upgrades fast



bsdrelease

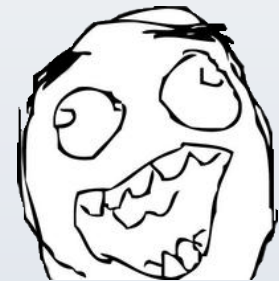
- Command line *nix tool
- Used to install & upgrade web apps
- Runs database migrations
- Tracks everything



Installing EE with bsdrelease

```
[lowell@build1 ~]$ bsdrelease deploy --package=expressionengine --version=x.x.x
```

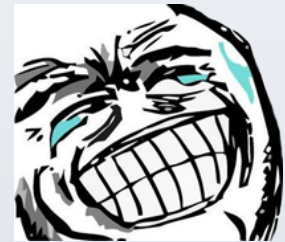
- Creates symlinks to EE source code in client's web directory
- Runs migration script to create database tables

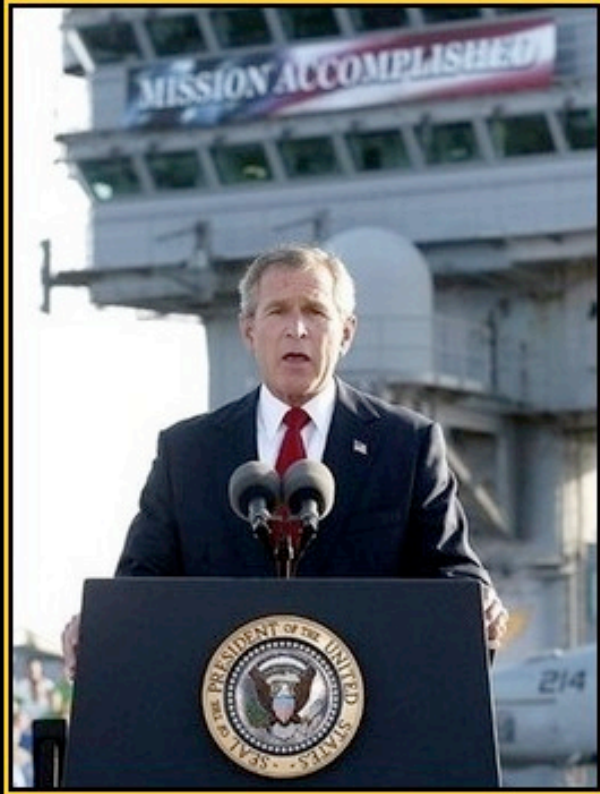


Upgrading EE with bsdrelease

```
[lowell@build1 ~]$ bsdrelease upgrade -p expressionengine  
--version=x.x.x --to-version=y.y.y
```

- Automatically upgrades all clients on version x.x.x to y.y.y
- Runs migration script to update database schema (as needed)



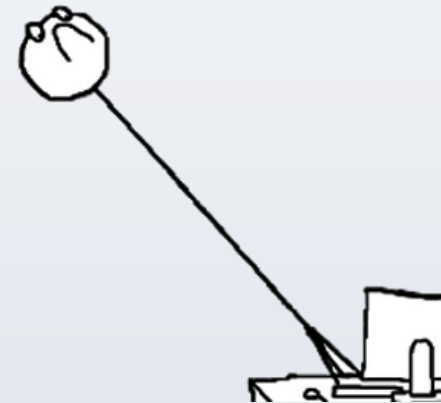


MISSION ACCOMPLISHED

NOT EXACTLY

How we'll get to over 1,000 installs

- Web app that allows non-technical staff to install and upgrade EE
- Eventually a system that allows clients to signup with BSD online and have EE automatically installed and setup for them
- Make database updates easier during upgrades



Thank You!

Questions or comments? Come find me! I'll be around...

Learn more about Blue State Digital at www.bluestatedigital.com

Find us on twitter @bsdwire

Find me on twitter @lowellkitchen

We're hiring!

We're looking for some awesome EE developers! Come see me or Cam Corda for details.

