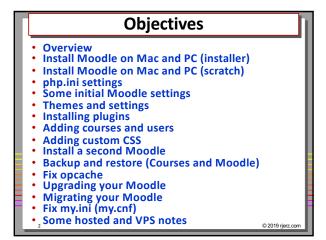
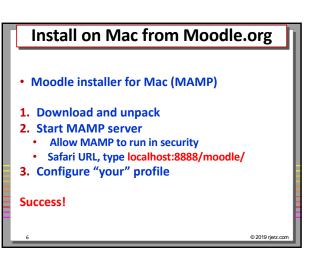
How to Install, Manage, and Customize a "Personal" Moodle on Your PC or Mac Rick Jerz



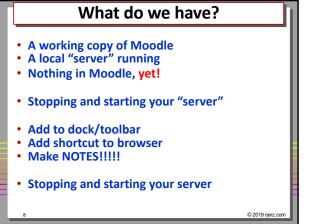
Overview An "sandbox" experimental Moodle Not for production! For education and experimenting Notes about Rick's computers: PC – Windows 10 (new install and virtual) Mac – Mojave (new install and virtual)

Can and Can't Do Can Experiment with many Moodle settings Act as manager, teacher, student Create courses and move to production Create quizzes and move to production Themes and CSS Explore add-ins Can't Email related items Have others log in (from the Internet) Cron is limited

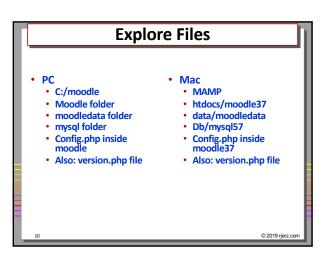
Moodle Installation • Why use the Moodle.org installers? • Fast, they work, no "server" worries • Why not? • PC install is not full AMP server • Missing phpMyAdmin • Components • moodle application • moodledata folder • A database (MySQL or MariaDB) • config.php • phi.ini (php configuration file) • my.cnf (database configuration file)



Install on a PC from Moodle.org 1. Turn off Windows Defender (faster unzipping) • Run gpedit.msc: computer admin templates, windows components, windows defender, turn off = enabled, reboot 2. Install required redistributable x86 3. Download and unpack Moodle for Windows 4. Start XAMPP server • Edge URL, type localhost/ 5. Problems? — You might need to start Apache from the xampp-control app 6. Install Moodle 7. Configure "your" Moodle Success!



Reflection: What have we done? What's where? Explore Moodle files Explore Moodle environment Explore config.php (text editor) Explore the database (phpMyAdmin) Keep notes of what you have done!



• PC • Site Admin, server, environment • MariaDB 10.1.28 • Php 7.1.10 • Moodle 3.7, build (20190628?) • No opcache • Not 64-bit! • Wac • Site Admin, server, environment • Mysql 5.7.23 • Php 7.2.10 • Moodle 3.7, build (20190520?)

PC and Mac Differences Slightly different install methods PC needs some extra support 32-bit redistributable, zipping Use the XAMPP control panel app, not start/stop apps Other differences Mac contains phpMyAdmin, plus more localhost:8888/MAMP

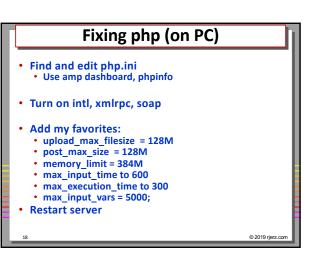
Conclusion PC version is not quite as robust Mac file structure seems better Both work!

Installing Another Moodle MAC has "user-friendly" tools, but PC does not What to do? PC – Install XAMPP and Moodle from scratch Mac – Install MAMP and Moodle from scratch

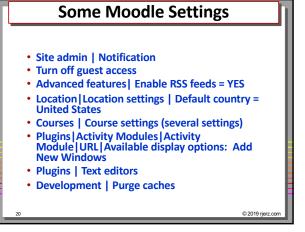
Install XAMPP and MAMP from Scratch • A bit more technical • XAMPP – Download and install 64-bit latest • C:\xampp • MAMP • First rename MAMP, like MAMP-1 • Download and install MAMP • Localhost/dashboard (PC) • Localhost:8888/ (Mac)

Install Moodle (from scratch) • Download & unpack moodle • Move moodle to the correct folder • htdocs • Create a database • mtf8mb4_unicode_ci, user=root, • PC - no password • Mac - password = root • Create a moodledata folder, full rights • Start moodle install (make sure server is running) • Localhost/moodle (PC) • Localhost:8888/moodle (Mac)

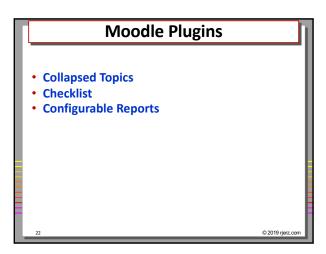
Install Moodle (from scratch) • Database • PC = MariaDB • MAC = mysql • PC - All kinds of errors • intl, xmlrpc, soap, opcache • MAC - some warnings • xmlrpc, opcache, database



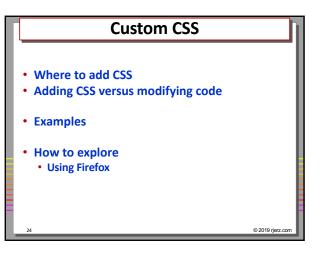
• We are good in good shape • More flexible server running • Moodle running



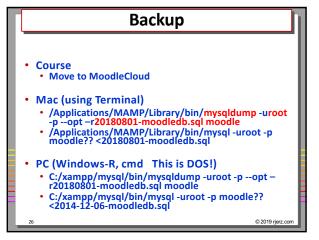
Theme Settings Appearance Try Classic, then back to Boost Try making some changes in Boost



Course categories Add a student Add a course, manually Add a course, via moodle Use multiple browser tabs, and windows



Installing a Second Moodle Database = moodle2, moodle 371 Moodledata = moodledata2, moodledata371 Moodle = moodle2, moodle371

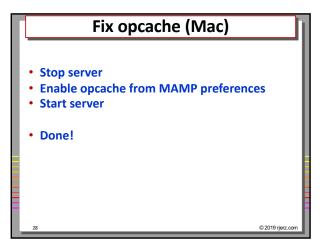


Fix opcache (PC)

• Edit php.ini, add the following at the bottom

[opcache]
opcache.enable = 1
opcache.memory_consumption = 128
opcache.mex_accelerated_files = 10000
opcache.revalidate_freq = 60
; Required for Moodle
opcache.use_cwd = 1
opcache.validate_timestamps = 1
opcache.save_comments = 1
opcache.enable_file_override = 0

zend_extension="c:\xampp\php\ext\php_opcache.dll"



Upgrading Moodle Important: config.php Copy this file Replace old moodle with new Install plugins This is the most troublesome step Move config.php into position Do something in moodle

Migrating Moodle

New >= Old
Same add-ins
Clear new database and restore
Clear moodledata and restore

Improve my.ini (my.cnf) • Add in my.ini [mysqld] innodb_file_format = Barracuda innodb_file_per_table = 1 innodb_large_prefix

