

# dotCMS Web Developer Training Agenda

## Session 1

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1. Introductions
2. Review of Velocity Syntax & Resources
3. How versions work (Inodes/Identifier)
4. Advanced Velocity Pulls
  - a. Working with dates and times
  - b. Category pulls
  - c. Pull related content
  - d. Paginating content pulls
  - e. Sorting and filter
  - f. #editContentlet Macro
  - g. Managing vtl's across hosts
5. Pulling Categories
  - a. Get category by key
  - b. Category based menus
6. Reusable Widgets with Parameters
  - a. Content listing widget by taxonomy
  - b. Photo gallery widget
7. Lucene Syntax
  - a. And/Or/Not Filtering tricks
  - b. Date/text range search
  - c. Field Grouping
  - d. Boolean operators
  - e. Fuzzy search
  - f. Escaping special characters
8. Image Handling
  - a. Image API
  - b. Binary Fields VS File Fields
  - c. Resizing

9. Cache Control
  - a. Page level cache
  - b. Velocity #dotCache

10. Questions and Answers

## Session 2

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11. Custom Fields & URL Mapping
  - a. Custom responsive dynamic fields
  - b. Custom Fields for URL mapping
  - c. URL mapped listing and detail pages
  - d. Hide/show fields based on user role
12. dotCMS viewTools
  - a. date tool
  - b. content tool
  - c. listTool
  - d. math tool
  - e. truncation tool
  - f. utilities
  - g. utilmethod.encodeURL
  - h. navtool
  - i. sorter
  - j. tag tool
13. Session Handling
  - a. Getting the session
  - b. Creating, updating, and getting session based values
  - c. \$request, \$response, \$session, \$context
  - d. Getting and setting cookies
14. Content based feeds
  - a. XML feeds
  - b. JSON feeds
15. JSON/ XML / Widget API
  - a. XML ingesting
  - b. JSON ingesting
  - c. The \$SQL Tool

- d. The \$import tool
- e. Remote widgets

## 16. Questions and Answers

### Session 3

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#### 17. REST API Forms

- a. Requirements
- b. Binary and special field handling
- c. Content API - Post
- d. JSON & Binary submit

#### 18. Building Design Template Themes

- a. Downloading and installing themes
- b. Creating custom themes
- c. Custom theme framework
- d. Nav Tool Placement
- e. Sass and Less

#### 19. Multilingual Websites

- a. Best practices and important considerations
- b. Setting a custom default language
- c. Installing languages and setting language properties
- d. Default language fall thru
- e. Geolocation & setting languages
- f. Rewrite rules

#### 20. Personalization and the Visitor Object

- a. The Visitor object
- b. Personas
- c. Pull Personalized Content
- d. Diagnostics

#### 21. Questions and Answers