

# Golden Rules

## lesson #intro02

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## Golden Rules

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- Cross platform
- Controller best practices
- Model best practices
- View best practices

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## Huh?

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- Server-side development cannot afford sloppiness
- Penalties
  - Your code breaks (PHP error displayed) → you're fired (2 marks off)
  - Break a major rule → you're fired (ditto)
  - Break a lesser rule → you're demoted (1 mark off)
- No excuses

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## Cross Platform

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- The webapp world is not just Windows ... 64% \*nix
  - Hard-coded paths → you're fired
  - Windows path separators → you're fired
- The webapp world is not just IIS ...
  - 65% Apache
- The web is not just Java ...
  - 77% PHP, 22% ASP, 4% Java
  - ~75% of the top 100 websites are built using PHP

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# Controllers

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- Classes to handle usecases
  - Manage usecase logic
  - Use models for data access & business rules
  - Trigger views, with passed parameters
- Goal: unaware of data source or presentation medium
- To get fired...
  - Data access, eg SQL select
  - Data manipulation, eg SQL update
  - Generating HTML, eg "echo <...>"
- To get demoted...
  - Awareness of data source
- There are sometimes exceptions

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# Models

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- Classes to handle data collection & record abstraction
  - Active record pattern, sort of
  - NOT JavaBean
  - Add business logic, as appropriate
- Goal: unaware of invocation or presentation medium
- To get fired...
  - Generate HTML, unless helper method
  - Usecase management
- To get demoted...
  - Controller logic
- There are sometimes exceptions

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# Views

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- HTML with embedded “script”
  - well-formed
  - XHTML
  - Use CSS for styling
- Goal: unaware of data source, no PHP
- To get fired...
  - Reference a model from inside your view!
  - Not well-formed
- To get demoted...
  - Business logic inside
- There are sometimes exceptions

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# Teamwork

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- Your code breaks ... already addressed.
- You break someone else's code ... fired!
- You expose defect in someone else's code ... perhaps promoted!
- You expose defect in your code ... fix it!
- You don't carry your weight ... penalized or transferred!
- I will be looking at the repo commit history.

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# Congratulations!

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You have completed lesson #intro02: Golden Rules

If you would take a minute to [provide some feedback](#), we would appreciate it!

The next activity in sequence is: [setup01](#) XAMPP Installation

You can use your browser's back button to return to the page you were on before starting this activity, or you can jump directly to the course [homepage](#), [organizer](#), or [reference](#) page.