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5.5 Play

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What is Play?

- In the beginning (2005)...
 - there was Django (Python) and Rails (Ruby) (followed by Grails (Groovy), etc.)
 - MVC (model-view-controller) frameworks
 - COC (convention-over-configuration): configuration only necessary when deviating from standard pattern
 - DRY (don't-repeat-yourself): minimal coupling
 - ARP (active-record-pattern): object-relational mappings, CRUD
 - Play (2007) (groovy for templates), Play2 (2012)
 - Stateless (***RESTful***: “representational state transfer” or, more simply, using HTTP properly)
 - Asynchronous I/O
 - Scala template engine
 - Native Scala support, etc.

Play/Activator components

- *Play* is based on the following:
 - JBoss *Netty* (non-blocking IO client-server framework, i.e. it's a web-server for JVM apps)
 - built-in hot reloading
 - choice of persistence layer: Slick, H2, Anorm, etc.
- *Activator* is deprecated:
 - <https://groups.google.com/forum/#!topic/play-framework/NeMD04W6bN4>
- Now, to create a new Play application based on a template, go to:
 - <https://developer.lightbend.com/start/?group=play>

Key Features

- Declarative application URL scheme configuration
- Type-safe mapping from HTTP to an idiomatic Scala API
- Type-safe template syntax
- Architecture that embraces HTML5 client technologies
- Live code changes when you reload the page in your browser
- Full-stack web framework features, including persistence, security, and internationalization.