

CS 455/555: Project Logistics

Project teams: Pair Programming

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- ▶ *Lean Software Development: Building and Shipping Two Versions* by Kate Matsudaira. Communications of the ACM, Vol. 58 No. 12, Pages 56-58. (Note: This article will be accessible only on campus or if you are logged in your Boise State account).

<http://cacm.acm.org/magazines/2015/12/194642-lean-software-development/fulltext>

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 - ▶ **Scala** (JVM based): LinkedIn, Twitter, New York Times

- ▶ Used widely to build distributed systems so there are many supporting libraries available.
- ▶ Networking features are in the core of the language: support for TCP/IP, UDP/IP (including multicast), high-performance non-blocking I/O, HTTP / URx support, REST support, XML support, JSON support, and even security features like SSL
- ▶ Rich set of data structures are available in core libraries.
- ▶ Strong multi-threaded performance. Java supports natively thread creation, locking primitives, wait/notify, multi-threaded data structures, and other more advanced support for complex multi-threaded programming.
- ▶ Supports serialization of objects natively. This is needed to send complex data structures over the network.
- ▶ Java APIs are used widely in industry. The platform is mature.