

**Programming Language Concepts, CS2104**  
**Assignment 3. (Deadline 15<sup>th</sup> October 2007 Mon/Thu/Fri tutorials)**

**Language Concept Survey**

The purpose of this assignment is for you to survey a recent language concept/feature. You may work either individually or as a pair. The idea is to provide a discussion and a tutorial that may be useful for someone new to the language feature.

We expect you to provide the following deliverables:

- (i) a set of powerpoint of between 5-10 slides (use examples)
- (ii) an commentary article of between 1-2 pages on the language feature.

You may source information from the web and/or library. It is important that you provide your own thoughts (in your own words) after the survey in the article.

Please choose ONE topic from below. You may also propose your own topic but it should be on a recent language feature. If in doubt, please email me.

- (a) Wildcard Generic Types for Java 5/6
- (b) Concurrency Support in Java 5/6
- (c) Some Feature of Perl 6
- (d) JavaScript
- (e) X10 for Clustered Concurrent Programming
- (f) StreamIt for stream programming
- (g) Brooks for General Purpose GPU programming
- (h) A special language feature in Oz, Erlang or Haskell (preferably something not already covered in the lectures)
- (i) Domain-specific languages, e.g. postscripts

You will be asked to do a short 10-minutes presentation of your survey topic during the tutorial.