

Groovy Roadmap

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Groovy 1.6

- Maintenance releases
- Backport of minor features from 1.6 when valuable

Groovy 1.7

- Upgrade to ASM 3
 - if necessary or deemed useful (more efficient bytecode?)
- Nested Classes & Anonymous Inner Classes
 - **GEP**
 - The exact semantics with relationship to the MOP should be properly defined through a GEP
- Features to be considered
 - Improved assert statement
 - Enhanced annotations
 - allow the use of closures, ranges, etc as annotation parameters
 - allow annotations in more places (see JSR-308), in particular, annotating methods calls, declarations, or statements in general
 - Loosen the parentheses omission for command statements
 - Facilities for viewing / constructing ASTs
 - Option in Swing console to view the AST with a JTree or as equivalent new Expression() like code
 - API to parse Groovy snippets and return a fully built AST fragment
 - AST Builder to simplify further the creation of ASTs when manipulating AST from Groovy
 - Builder metadata system for IDE discovery and code completion
- Potential integration of [GParallelizer](#) for Groovy actors
- Potential integration of GParsec for parser combinators in Groovy

Groovy 2.0

- Upgrade to Antlr 3
 - We'll be able to use the tooling support accompanying Antlr 3
- New MetaClass system
 - Benchmark test suites to track progress of performance across releases
 - [New dynamic features](#) that will be discussed in the GEP
 - **GEP**
 - defining the scope of changes
 - describing the new system
 - proposals of a more homogeneous system
 - homogenize categories, EMCs, custom metaclasses
 - homogenize the configuration / declaration / conventions
 - have per-thread / scoped EMCs (like categories)
 - per-module/library metaclasses

Ideas to be debated and scheduled

- Modularisation
 - Short term: maybe just split DGM or non-all jar into pieces, leverage Grapes?
 - Longer term: leverage OSGi or Jigsaw?

- Case Classes
- Generators
- List comprehensions
- Groovy incremental compiler
 - Especially useful for the Eclipse plugin
- Concurrency features, beyond the inclusion of GParallelizer
 - **GEP**
 - Define what coverage we'd like to bring
 - Work on this theme first as a module, and if deemed right, we can bring it back to groovy-core