

- self-hosting runtimes, 241–246
- Brooks, Fred
 - on complexity and conceptual integrity, 12
- buffers
 - GNU Emacs, 265, 267
- buildability
 - as an architectural concern, 14
 - defined, xvii
- bytecode manipulation
 - JVM, 223

C

- cache
 - Akonadi, 299
 - HotSpot code cache, 227
 - lookup caching, 211
- Channel Service
 - Project Darkstar, 55
- channels
 - event channels, 168
- Charybdis
 - reusability, 323
- checkpointing
 - Tandem computers, 187
- chips
 - Moore’s law and scaling, 47
- Chomsky, Noam, 349
- chrome
 - Firefox and JavaScript, 277
- cities
 - as an analogy for software systems, 25
- class loaders
 - Jikes RVM, 256
- class loading and unloading
 - JVM, 223–228
- classes
 - compared to combinators, 331
 - CSS classes, 139
 - deferred, 335
 - defining objects, 330
 - inheritance, 333
 - modularization policy, 332
 - primordials in Jikes RVM, 244
- classpath “pollution”
 - Lifetouch, 70
- client interfaces
 - using agent-based libraries, 343
- client-server model
 - Lifetouch, 77
- clients
 - role in MMOs architecture, 49
- closures (see agents)
- code
 - architecture-neutral machine code, 236
 - generation in JVM, 220
 - HotSpot code cache, 227
 - JPC, 206
 - location of in Design Town project, 36
 - in Messy Metropolis project, 26, 30
 - native code, 256
 - quality of in Free Software community, 284
 - reviewing in Lifetouch, 79
 - security on JPC, 231
 - technical debt in Design Town project, 38
 - unit testing in Design Town project, 38
- codeblocks
 - replacing, 227
- cohesion
 - in Messy Metropolis architecture, 29
- combinators
 - compared to classes, 331
 - versus types, 330
- command-query separation principle
 - Eiffel method, 329
- commands
 - complexity of in GNU Emacs, 274
- communication services
 - in Project Darkstar, 54
- compilation
 - optimization in Jikes RVM, 247–253
 - primordials in Jikes RVM, 244
- compilers
 - compiling JVM, 219–223
 - performance, 238
 - runtime environments, 237
- complexity
 - decomposing, 12
- components
 - cohesion in Messy Metropolis architecture, 29
 - coupling, 30
 - diagnosing failure in, 177
 - importance of architecture, 31
 - role in architecture, 5, 10
 - runtime in Jikes RVM, 246–259
- conceptual integrity
 - defined, xvii, 13
- conceptual models
 - Design Town project, 34
- concurrency
 - system performance, 48
- concurrent execution
 - and data contention in Project Darkstar, 54
- consistency
 - of system in Design Town project, 36
- context
 - application context, 68
 - in architecture, 47
 - social context, 115, 119
- Conway’s Law, 40
 - Lifetouch, 84