	Activity Name	Start Date         Finish Date         Sept 04         Oct 04         Nov 04         Dec 04           5         12         19         26         3         10         17         24         31         7         14         21         28         5         12         19         26         2	Jan 05         Feb 05         Mar 05         Apr 05         May 05           9         16         23         30         6         13         20         27         6         13         20         27         3         10         17         24         1         8         15         22         29
1 2 3	Cytoscape Retreat Hackathon Collaboration Meeting	9/6/04 9/7/04 4	
5	Retreat debriefing, planning  Cytoscape 2.1	9/10/04 9/24/04	
6 7 8	Cytoscape 2.1  Development  VizMapper  A Node label color control (Nerius)	9/20/04 9/24/04	
9 10 11 12	Graph Model and Operations  Layout features (Rob, Nerius, Chris W., Rowan)  A Layout selected nodes (Nerius, Rowan)	10/4/04 10/15/04	
13	▲ Rotate selected nodes (Nerius, Rowan)  Edge Direction e.g., Undirected graph option This option would change the way certain API functions are handled (e.g.	10/18/04 10/29/04	
15	getNeighbors) and data are mapped (e.g. A pp B returns same data as B pp A). (Rob->???)  Data  External Data [formerly Data Services] (Gary, Ethan,		
16 17 18	Chris, Mark, John Salama, Alex Pico)  ▲ Direct cPath interface, Beta 2 (Ethan)  Species bundles (Gary)	10/11/04 11/8/04	
19 20 21	Data and menu options (like GenMAPP)  Support for SOFT (Ethan)  Support for PSI-MI Level 1 (Ethan)	10/25/04 11/9/04 10/25/04 11/9/04	
22 23 24	Support for PSI-MI Level 2 (Ethan) Support for BioPAX Level 1 (Ethan) Support for BioPAX Level 2 (Ethan) Support for SBML (Powan)	12/27/04 1/7/05 12/27/04 1/21/05 12/27/04 1/21/05	
25	Support for SBML (Rowan)  cPath Web Service Development, Version 1.0 - an external project, see: http://www.cbio.mskcc.org/cpath/http://www.cbio.mskcc.org/dev_site/cpath/	10/18/04 11/5/04	
27 28 29	▲ Performance  Goals  Development of a short list of performance measures (Rob)	10/26/04 11/3/04	
30 31 32	Analysis/Design  Benchmarking, performance characterization (Rob, Mark)  Graph loading (Rob, Mark)	11/5/04 11/11/04 1/19/05 1/21/05	
33 34	Visualization (Rob, Mark)  Optimization/Implementation  Performance Optimization of GINY (Nerius)	11/5/04 11/11/04 1/19/05 1/21/05	
35 36 37	Analyze run-time behavior and code for areas of improvement (Rob, Mark Nerius, Rowan, all)  Implement optimizations (Nerius, Rowan, all)	11/26/04 1/20/05	
38 39 40	Benchmarking suite  Testing and Docs (Gary, Mark, Ethan, Rob, Functional testing		
41 42 43	J Unit - organize into test suites (Ethan will manage)  Technical documentation (Ethan)  Set-up Maven development site (Ethan)  • On-line help system (Mark)	1/7/05 1/13/05 12/27/04 12/31/04 9/15/04 9/22/04	
45	Creation of developer checklist for new code: javadoc, junit, code review (look for architecture points, easy optimizations, and general style), error checking		
46 47 48	Coverage and performance testing  Documentation of complexity (big O notation) for all algorithms in terms of time and memory, nodes and edges  User documentation (Gary will manage)	1/17/05 1/21/05	
49	Web site maintenance (Ethan will manage)  Core architectural design / Interoperability (Califano, Mark, Rob)	1/27/05 2/2/05	
51 52 53	▲ Headless mode  Headless mode infrastructure (Nerius)  True headless mode (Rowan, Nerius)	10/18/04 12/24/04 10/18/04 11/19/04	
54 55 56	<ul> <li>▲ Progress Bar manager / threading control (Nerius)</li> <li>▲ Threading control (Ethan)</li> <li>Build system (ant) maintenance and management (Ethan)</li> </ul>	10/4/04 10/15/04 11/22/04 11/30/04 1/3/05 1/21/05	
56 57 58 59	Bug Fixes  xxx  Enhancements		
60 61 62	JAR file dependencies, manifest, nesting  System Testing  Release Preparation	1/14/05 1/21/05	
63 64 65	License check of libraries (Ethan)  Technical/user/web documentation check (Ethan, Gary)  Release documentation (Ethan will manage)	1/24/05 1/28/05	
66 67 68	RC 1 (Ethan will manage) RC 2 (Ethan will manage)  Cytoscape 2.1 Release (FCS)	1/14/05 1/25/05 2/2/05	
69 70 71	Cytoscape 2.2  Development	2/14/05 6/3/05	
71 72 73 74	VizMapper  ▲ Vizmapper updates (Nerius, Ryan, Ethan, Rod)  Tooltip control (Nerius)		
75 76	Continuously map edge thickness (Nerius)  Create selected attribute and map it (Nerius)  How to fully vizmap filter results (if c1 then red, else if c2 then		
78 79 80	green, else stop) (Nerius)  ▲ Legend option for vizmapper (Nerius, Ethan)  ▲ Attribute to layout co-ordinates (Nerius)  Multiple attribute to viz-mapping (Nerius)		
80 81 82	▲ Translucency (Nerius) ??? NEXT RELEASE ???  Split dotted edge from thickness attribute (Nerius)  ▲ Saving visual styles explicitly add file location to preferences		
83 84 85	dialog and whether to append/overwrite f(project file) (Nerius)  Text formatting  Label text wrapping, position, and justification (Rowan, Gary)		
86 87 88	Smart formatting  Change the label color to complement the node color (Rowan?)  Change the label position to minimally conflict with other labels (Rowan)		
88 89 90 91	labels (Rowan)  Visualization modes  Anti-aliasing (Nerius)  Slow/detailed versus fast/abstract (Nerius, Rowan)		
91 92 93 94	Graph Model and Operations  Layout features (Rob, Nerius, Chris W., Rowan)  Attribute-constrained layout (Nerius, Rowan)		
94 95 96 97	Background images (Rowan)  Node grouping inside of boxes  Multiple edges		
98 99 100	▲ Graph editor (Nerius/Rowan)  Node/edge creation/deletion (Nerius,Rowan)  Node/edge attributes (Nerius,Rowan)		
101 102 103	Node/edge visual properties (Nerius, Rowan)  Lockable attributes (Nerius,Rowan)  Library of graph algorithms (like LEDA) put in CVS common repository (Rob)		
104 105 106	FindConnectedComponents (Rob)  DFS / BFS  Dijkstra's algorithm / All Pairs Shortest Paths		
106 107 108 109	MinSpanningTree  MaxFlow / MinCut algorithm  ▲ Node duplication / identity; f(GraphObjAttributes), node		
109 110 111	identifies, multiple labels/node  ▲ Intersection/Union/Difference between loaded networks  Data		
112 113 114	External Data [formerly Data Services] (Gary, Ethan, Chris, Mark, John Salama, Alex Pico) Internal Data New file formats / CYF format / Project manager (Chris, Mark)		
114 115 116 117	Import formats  Export formats  Native format (saving/restoring project state, etc)		
118 119 120	GraphObjAttributes / ExpressionData merging and refactor (Mark)  Most recently-used directories and files (Rowan)  Save all Cytoscape state as a project file (Chris, Rowan)		
120 121 122 123	▲ Refactor attributes browser GUI (Mark)  ▲ Performance  Testing and Docs (Gary, Mark, Ethan, Rob,		
124 125 126	Functional testing J Unit - functional (Ethan will manage) Technical documentation (Ethan)		
127 128	Set-up Maven development site (Ethan)  Update, creation of new online help documentation  Creation of developer checklist for new code: javadoc, junit, code review (look for architecture points, easy optimizations,		
129 130 131	and general style), error checking  Coverage and performance testing  Documentation of complexity (big O notation) for all algorithms		
132 133	in terms of time and memory, nodes and edges User documentation (Gary will manage) Web site maintenance (Ethan will manage)		
134 135 136	Core architectural design / Interoperability (Califano, Mark, Rob)  Abstract Plug-in API (Rob)  Cytoscape API / Integration		
136 137 138 139	Cytoscape API / Integration   ▲ Undo and repeat manager (Nerius, Mark)  External cut/paste for networks (Copy as gif/sif)  ▲ Preferences handling and dialog box (Nerius)		
139 140 141	Location of various definition files [e.g. visual styles, filter definitions, plugins directory] f(project file) (Nerius)  Default sizes and locations of Cytoscape on the screen		
141 142 143 144	(Nerius)  Toolbar customization (Nerius)  Build system (ant) maintenance and management (Ethan)		
144 145 146 147	Bug Fixes  xxx  Enhancements  yyy		
147 148 149 150	System Testing Release Preparation License check of libraries (Ethan)		
150 151 152 153	Technical/user/web documentation check (Ethan, Gary)  Documentation (Ethan will manage)  RC 1 (Ethan will manage)		
154	RC 1 (Ethan will manage)  RC 2 (Ethan will manage)  Cytoscape 2.2 Release (FCS)	6/3/05	
156 <sub>-</sub>	▲ High Priority Activities are in RED	5 12 19 26 3 10 17 24 31 7 14 21 28 5 12 19 26 2	9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29