	Activity Name	Start Finish Date Date	Sept 04 5 12 19 26	Oct 3 10	24 31	Nov 04		Dec 04 5 12	19 26	Ja	n 05	23 30	Feb 05	20 27	Mar 09		27	3	Apr 05 10 17	24	May 1 8	05 15 22	29
2	Cytoscape Retreat Hackathon Collaboration Meeting	9/6/04 9/7/04 9/8/04 9/9/04																					
4 5	Retreat debriefing, planning	9/10/04 9/24/04																					
	Cytoscape 2.1 Development VizMapper																						
9 10 11	▲ Node label color control (Nerius) Graph Model and Operations Layout features (Rob, Nerius, Chris W., Rowan)	9/20/04 9/24/04	1																				
12 13		10/4/04 10/15/04 10/18/04 10/29/04 1/10/05 1/21/05	4		-																		
14	change the way certain API functions are handled (e.g. getNeighbors) and data are mapped (e.g. A pp B returns same data as B pp A). (Rob)										7												
16	Data External Data [formerly Data Services] (Gary, Ethan, Chris, Mark, John Salama, Alex Pico) ▲ Direct cPath interface, Beta 2 (Ethan)	10/11/04 11/8/04				7																	
17 18 19	Species bundles (Gary) Data and menu options (like GenMAPP)	10/25/04 11/9/04																					
20 21 22	Support for SOFT (Ethan) Support for PSI-MI Level 1 (Ethan) Support for PSI-MI Level 2 (Ethan)	10/25/04 11/9/04 12/27/04 1/7/05	4			7																	
23 24 25	Support for BioPAX Level 2 (Ethan) Support for SBML (Rowan)	12/27/04 1/21/05 12/27/04 1/21/05	5								7												
26	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/ Performance	10/18/04 11/5/04	•																				
28 29 30	Goals Development of a short list of performance measures (Rob) Analysis/Design	10/26/04 11/3/04	1			7																	
31 32 33	Benchmarking, performance characterization (Rob, Mark) Graph loading (Rob, Mark) Visualization (Rob, Mark)	11/5/04 11/11/0 ₄ 11/5/04 11/11/0 ₄				X V																	
34 35	Optimization/Implementation Performance Optimization of GINY (Rob, Nerius) Analyze run-time behavior and code for areas of improvement	11/12/04 12/3/04	1																				
36 37 38	(Rob, Nerius, Rowan, all) Implement optimizations (Rob, Nerius, Rowan, all) Benchmarking suite	11/26/04 1/20/05 1/10/05 1/21/05									V												
39 40 41	Testing and Docs (Gary, Mark, Ethan, Rob, Functional testing J Unit - organize into test suites (Ethan will manage)	1/7/05 1/13/05	5							<u> </u>													
42 43 44	Technical documentation (Ethan) Set-up Maven development site (Ethan) ▲ On-line help system (Mark)	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 Coverage and performance testing																						
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	5																				
48 49 50	Web site maintenance (Ethan will manage) Core architectural design / Interoperability (Califano, Mark, Rob)	1/27/05 2/2/05				7																	
51 52	Headless mode Headless mode infrastructure (Nerius) True headless mode (Rowan, Nerius)	10/18/04 12/24/04 10/18/04 11/19/04					7																
53 54 55	▲ Progress Bar manager / threading control (Nerius) ▲ Threading control (Ethan)	10/4/04 10/15/04 11/22/04 11/30/04	4																				
56 57 58	Build system (ant) maintenance and management (Ethan) Bug Fixes xxx	1/3/05 1/21/05	5																				
59 60 61	Enhancements JAR file dependencies, manifest, nesting System Testing	1/14/05 1/21/05	5																				
	Release Preparation License check of libraries (Ethan) Technical/user/web documentation check (Ethan, Gary)	1/24/05 1/28/05 1/25/05 1/31/05										▽											
65 66 67	Release documentation (Ethan will manage) RC 1 (Ethan will manage) RC 2 (Ethan will manage)	1/3/05 1/21/05 1/14/05 1/25/05																					
68 69	Cytoscape 2.1 Release (FCS)	2/2/05																					
	Development VizMapper	2/14/05 6/3/05																					V
73 74 75	▲ Vizmapper updates (Nerius, Ryan, Ethan, Rod) Tooltip control (Nerius) Continuously map edge thickness (Nerius)																						
76 77	Create selected attribute and map it (Nerius) How to fully vizmap filter results (if c1 then red, else if c2 then green, else stop) (Nerius)																						
78 79 80	 ▲ Legend option for vizmapper (Nerius, Ethan) ▲ Attribute to layout co-ordinates (Nerius) Multiple attribute to viz-mapping (Nerius) 																						
81 82 83	▲ Translucency (Nerius) ??? NEXT RELEASE ??? Split dotted edge from thickness attribute (Nerius) ▲ Saving visual styles explicitly add file location to preferences dialog and whether to append/overwrite, f(project file). (Nerius)																						
84 85	Text formatting Label text wrapping, position, and justification (Rowan, Gary) Smart formatting																						
86	Smart formatting Change the label color to complement the node color (Rowan?) Change the label position to minimally conflict with other																						
88 89 90	labels (Rowan) Visualization modes Anti-aliasing (Nerius)																						
91 92 93	Slow/detailed versus fast/abstract (Nerius, Rowan) Graph Model and Operations Layout features (Rob, Nerius, Chris W., Rowan)																						
94 95 96	Attribute-constrained layout (Nerius, Rowan) Background images (Rowan) Node grouping inside of boxes																						
97 98 99	Multiple edges ▲ Graph editor (Nerius/Rowan) Node/edge creation/deletion (Nerius,Rowan)																						
100 101 102	Node/edge attributes (Nerius,Rowan) Node/edge visual properties (Nerius, Rowan) Lockable attributes (Nerius,Rowan)																						
103 104	Library of graph algorithms (like LEDA) put in CVS common repository (Rob) FindConnectedComponents (Rob)																						
105 106 107	DFS / BFS Dijkstra's algorithm / All Pairs Shortest Paths MinSpanningTree																						
108 109	MaxFlow / MinCut algorithm ▲ Node duplication / identity; f(GraphObjAttributes), node identifies, multiple labels/node																						
110 111 112	▲ Intersection/Union/Difference between loaded networks Data External Data [formerly Data Services] (Gary, Ethan,																						
113 114	Chris, Mark, John Salama, Alex Pico) Internal Data New file formats / CYF format / Project manager (Chris, Mark)																						
115 116 117	Import formats Export formats Native format (saving/restoring project state, etc) Craph Obj Attributes (Expression Date marging and refeator)																						
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)																						
121 122 123	▲ Refactor attributes browser GUI (Mark) ▲ Performance Testing and Docs (Gary, Mark, Ethan, Rob,																						
123 124 125 126	Functional testing J Unit - functional (Ethan will manage) Technical documentation (Ethan)																						
126 127 128	Set-up Maven development site (Ethan) Update, creation of new online help documentation Creation of developer checklist for new code: javadoc, junit,																						
129 130	code review (look for architecture points, easy optimizations, and general style), error checking Coverage and performance testing																						
131 132	Documentation of complexity (big O notation) for all algorithms in terms of time and memory, nodes and edges User documentation (Gary will manage)																						
133 134	Web site maintenance (Ethan will manage) Core architectural design / Interoperability (Califano, Mark, Rob)																						
135 136 137	Abstract Plug-in API (Rob) Cytoscape API / Integration Induction Undo and repeat manager (Nerius, Mark)																						
138 139 140	External cut/paste for networks (Copy as gif/sif) A Preferences handling and dialog box (Nerius) Location of various definition files [e.g. visual styles, filter definitions, plugins directory] f(project file) (Nerius)																						
141 142	definitions, plugins directory] f(project file) (Nerius) Default sizes and locations of Cytoscape on the screen (Nerius) Toolbar customization (Nerius)																						
142 143 144 145	Build system (ant) maintenance and management (Ethan) Bug Fixes xxx																						
146 147	Enhancements yyy																						
149 150	System Testing Release Preparation License check of libraries (Ethan) Technical/user/web documentation check (Ethan, Gary)																						
151	Technical/user/web documentation check (Ethan, Gary) Documentation (Ethan will manage) RC 1 (Ethan will manage)																						
152 153								ı I İ								1		ı İ		. 1	. I		
153 154	RC 2 (Ethan will manage) Cytoscape 2.2 Release (FCS) A High Priority Activities are in RED	6/3/05																					