

	Activity Name	Start Date	Finish Date	Predecessor	Resources	Mar 05			Apr 05				May 05				Jun 05				Jul 05								
						13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26	3	10	17	24				
1	Cytoscape 2.2	3/15/05	7/29/05																										
2																													
3	Development																												
4	Graph Model and Operations																												
5	Graph Model Extension																												
6	analysis & design	3/21/05	7/1/05		Allan, Aditya, Rowan, Nerius, Mike																								
7	Hypergraph support (deferred to 2.3)																												
8	Hyper-edge = meta-node (deferred to 2.3)																												
9	edge direction "clean up" (deferred to 2.3)																												
10	Layout API Development																												
11	Beta framework available, verify completeness and support utilization by layout codes	5/16/05	5/20/05		Nerius																								
12	Data																												
13	Internal Data																												
14	File Format Redesign																												
15	New internal file format / CYF format (conditional upon resource availability)																												
16	analysis & design	4/18/05	5/3/05	25	Chris																								
17	CyData external format: CYF	5/4/05	6/21/05	16	Chris																								
18	import from other formats (e.g., SIF, Node/Edge Attributes, etc.)	5/4/05	7/5/05	16	Chris																								
19	export to other formats	5/4/05	7/5/05	16	Chris																								
20	Save/Restore Project State																												
21	analysis & design	4/18/05	5/20/05	25	Mark																								
22	consolidate definitions, state, work and project data into project structure (e.g., XML schema)	5/23/05	8/1/05	21	Mark																								
23	Data Objects Redesign																												
24	GraphObAttributes and ExpressionData merging/refactoring -> CyData																												
25	analysis & design	3/18/05	4/15/05		Nerius, Rowan																								
26	normalize data operations	4/18/05	5/5/05	25	Nerius, Rowan																								
27	provide intuitive, consistent API	4/18/05	5/12/05	25	Nerius, Rowan																								
28	provide access to data by attributes or by node	4/29/05	6/16/05	27	Nerius, Rowan																								
29	maintain backwards compatibility for add/get Attributes, etc.	5/6/05	6/3/05	27	Nerius, Rowan																								
30	Performance																												
31	Network Rendering Performance Improvement																												
32	analysis & design	5/23/05	6/3/05		Nerius																								
33	Rendering of graphs/networks in Cytoscape is very slow relative to 1.1. Bring 2.2 rendering performance up to within some % (e.g., 20%) of 1.1	6/13/05	7/22/05	32	Nerius																								
34	Usability/Interface																												
35	Graph editor																												
36	analysis & design	3/18/05	4/22/05		James, Allan, Aditya, Mike																								
37	Node/edge creation/deletion	4/25/05	5/27/05	36	James, Allan, Aditya, Mike																								
38	Node/edge attributes	4/28/05	6/17/05	36, 25	James, Allan, Aditya, Mike																								
39	Node/edge visual properties	5/16/05	7/15/05	36	James, Allan, Aditya, Mike																								
40	layout functions: arrange, align, group/ungroup, distribute, etc.	4/25/05	6/3/05	36	James, Allan, Aditya, Mike																								
41	cut/copy/paste of networks and selected sub-networks	5/20/05	7/15/05	36	James, Allan, Aditya, Mike																								
42	CytoPanels																												
43	analysis & design	3/14/05	3/30/05		Ethan																								
44	floatable/dockable windows for presentation of data in manageable panels	3/28/05	4/27/05	43	Ethan																								
45	new AttributesBrowser framework	4/25/05	7/15/05	43	Ethan																								
46	Undo Manager (conditional upon resource availability)																												
47	analysis & design																												
48	Undo framework (Swing provides something)																												
49	user-defined actions (ie.g. from cytoscape.actions.*)																												
50	API-level actions																												
51	Domain-specific Functionality																												
52	Support for Multiple Species																												
53	analysis & design	3/22/05	4/29/05		Melissa, ISB ?																								
54	implementation	5/2/05	7/22/05	53	Melissa, ISB ?																								
55	Architectural Improvements																												
56	audit codebase for "dead code" - unused/obviated objects, methods	4/18/05	4/22/05		UCSD ?																								
57	generate UML models for core code	4/18/05	4/22/05		UCSD ?																								
58	refactor/extract core functions from actions/* classes for general	4/25/05	4/29/05		UCSD ?																								
59	evaluate package structure and make code organization changes (e.g., mode/, view/, and controller or other scheme)	4/25/05	4/29/05		UCSD ?																								
60	look into data/ organization (add writers/ directory, move GMLWriter from readers/ directory, etc)	5/2/05	5/6/05		Chris																								
61	Testing and Docs																												
62	Functional testing																												
63	J Unit - functional test framework																												
64	Technical documentation																												
65	Update, creation of new online help documentation	7/4/05	7/15/05	67																									
66	Creation of developer checklist for new code: javadoc, junit, code review (look for architecture points, easy optimizations, and general style), error checking - ?? (wouldn't this be nice to have?)																												
67	User documentation	6/20/05	7/15/05																										
68	Web site maintenance	7/11/05	7/22/05		Ethan																								
69	Bug Fixes																												
70	Bug Management	3/21/05	7/22/05		Gary																								
71	Bug fix implementations	3/28/05	7/22/05																										
72	Enhancements																												
73	...																												
74	System Testing / Release Preparation																												
75	License check of libraries	7/14/05	7/14/05		Ethan																								
76	Release Notes	7/17/05	7/20/05		Mark																								
77	Features List	7/17/05	7/22/05		Mark																								
78	Create Official Beta Releases	7/25/05			Nerius																								
79	Testing (Anyone and Everyone)	7/25/05																											
80	Bug Master	7/25/05			Gary																								
81	Bug Fixing (anyone who is available)	7/25/05																											
82	Change Cytoscape2_1.pdf to Cytoscape2_2.pdf	7/25/05			Ethan																								
83	Copy new manual to cyto_web, so it will be available online	7/25/05			Ethan																								
84	Update the cyto_web to reflect Cytoscape 2.2	7/25/05			Ethan																								
85	Official Release																												
86	Modify Version # in Build.xml	7/26/05			Ethan																								
87	Officially tag the release	7/26/05			Ethan																								
88	Create the final release files: .tar.gz and .zip	7/26/05			Ethan																								
89	Create the Mac OS X Release	7/26/05			Ethan																								
90	Create the InstallAnywhere release	7/26/05																											
91	Deploy the new release files to cbio.mskcc.org	7/26/05			Ethan																								
92	Deploy latest javadocs to cbio.mskcc.org	7/26/05			Ethan																								
93	Deploy new cyto_web files to cytoscape.org	7/26/05			Ethan																								
94	Send out official announcements	7/27/05			Gary, Trey																								
95	Update WebStart tutorial																												
96	Cytoscape 2.2 Release (FCS)	7/29/05		1																									
97																													
98	External Related Projects																												
99	BioPAX support																												
100	Literature Search enhancements																												
101	PathBlast (Cytoscape plugin and web services)																												
102	Node/neighbor expand/collapse plugin for browsing large																												