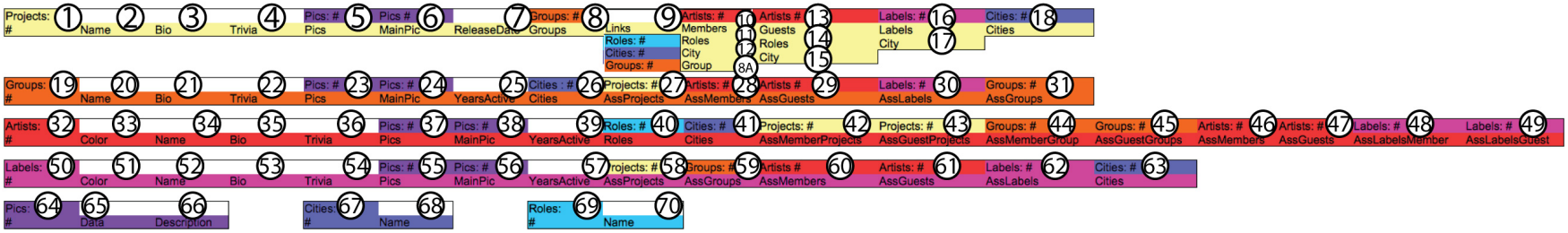
http://philogb.github.io/jit/static/v20/Docs/files/Visualizations/Hypertree-js.html visualized, it looks like this: https://philogb.github.io/jit/static/v20/Jit/Examples/Hypertree/example1.html https://philogb.github.io/jit/static/v20/Jit/Examples/Hypertree/example2.html

This graph uses the example2 as a basic template. Example1 is a better visualization of the hyperbolic geometry, but the example2 uses a nonheirarchcal structure rather than a tree structure.



Ursa Polaris Records

The goal of this site is to provide an interesting way for music fans to browse and listen to music, while providing independent musicians with a useful and compelling way to manage their careers. The primary means of this is a musicians' graph, a web application that displays the social and professional connections between musicians and the people who help them share their music with the world. The graph is populated by information input by users in a manner similar to Wikipedia, using the same information found in liner notes.

The first stage of this application is building a basic design of the graph itself. This document covers this stage, and suggests a few potential future updates to the application.

The graph consists of multiple layers, one each for individual artists, groups, , and their projects. These layers are then projected onto a hyperbolic plane, with an asymptote around the edge of the graph's containing circle. The hyperbolic geometry was pioneered by Xerox's PARC laboratory in the '80s, and referred to as a "hypertree". In the modern collaborative Internet age, open-source programmers have released versions of this hypertree, with various adjustments. Some examples are above.

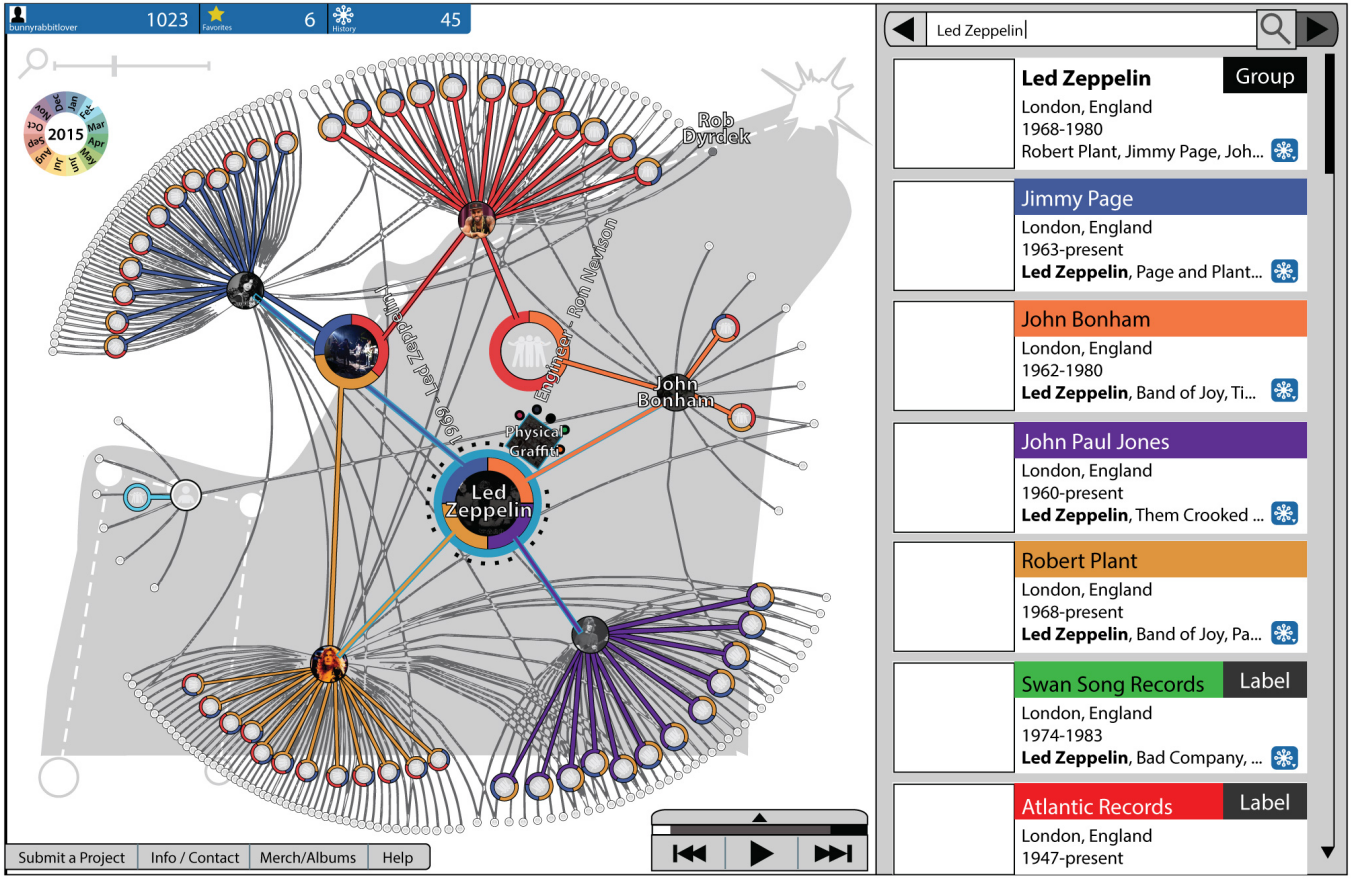
The basic design of the graph is a base layer of Artists (32) that are displayed as different nodes displaying thumbnails of their main picture (38) . Around the edges, the size of the nodes gets smaller, so after a certain point the main picture should disappear, maybe under 20 pixels or so. When the node is clicked once, it should light up all the connections to associated groups as a member or guest (44/45). When it is double clicked, it should center.

The second layer displays the Groups (19) the artists are associated with (44/45). For associated projects as a guest (45), a gray line extends to that group. For associated projects as a member, the artist's color (33) extends to groups the artist is a member of (44). It connects to a slice of the donut graph surrounding each group's main picture (24). The size of the slice is calculated by finding the total number of projects that a specific member of a group worked on, and dividing it by the total number of group members on every project. Speaking in data terms, it's counting the intersection of a group's associated projects (27) and an artist's associated projects as a group member (44), as long as the group the artist is involved with (8A) matches the group (19), and dividing it by the count of the total number of group members (10) involved in each of the group's projects (27), for the relevant group (8A).

The third layer displays projects that a group has worked on (27). These projects are displayed as small gray squares surrounding a group. The squares are not visible unless the group's picture is clicked. Again, if double clicked, the graph should re-center.

When a small gray square is clicked, it should expand into a small thumbnail of the album art, and the project's guests (13) should be displayed as small colored circles surrounding the thumbnail, with the color corresponding to the guest's color (33).

The music player should be able to connect to Spotify, Bandcamp, and Soundcloud.



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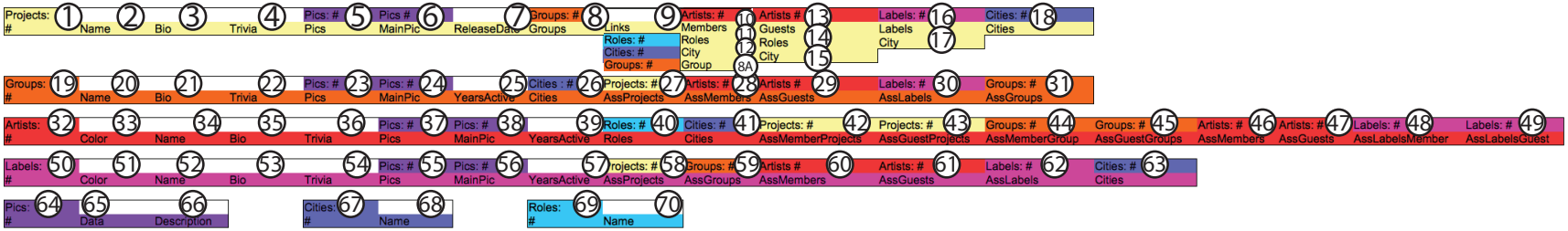

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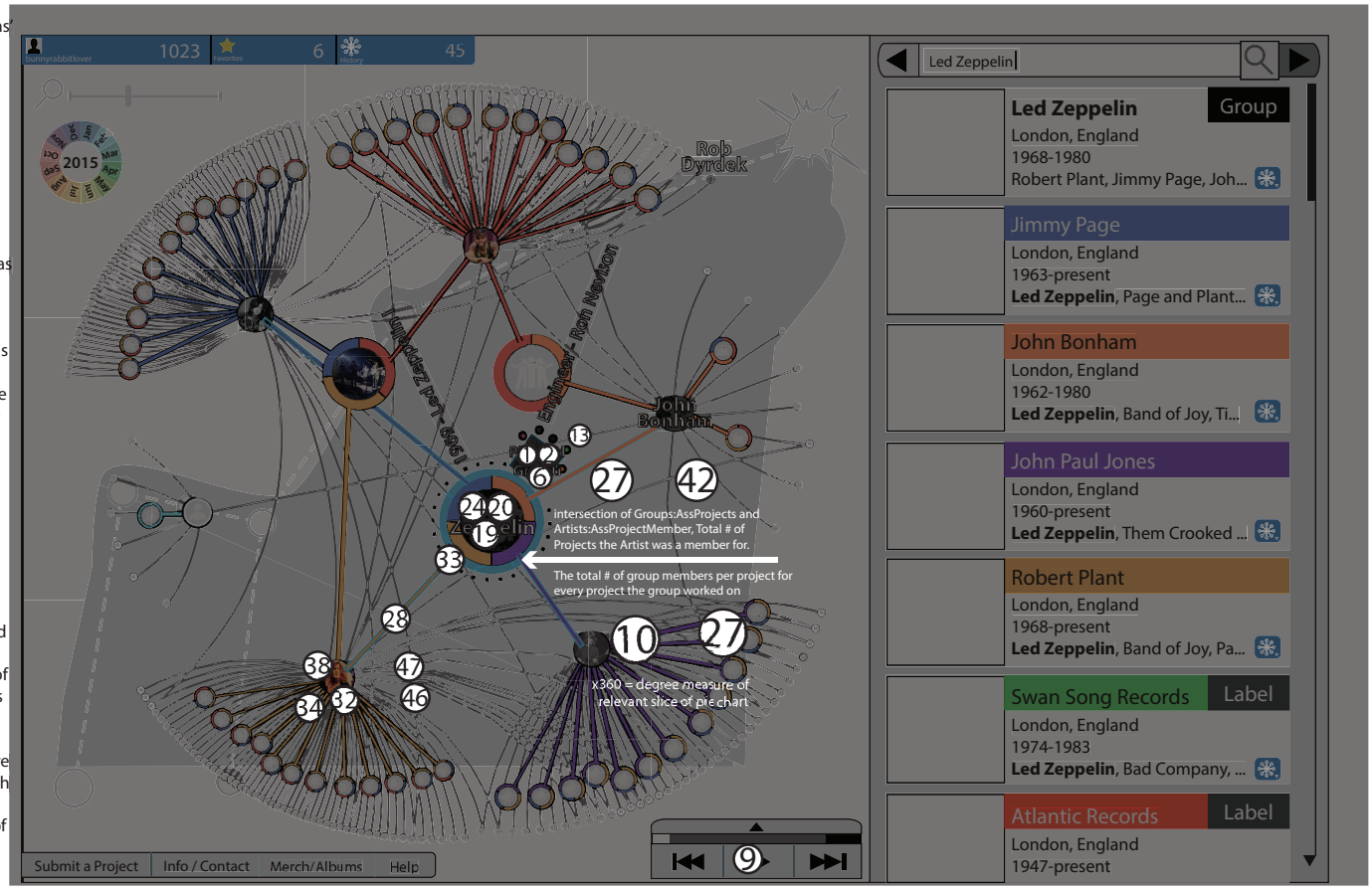
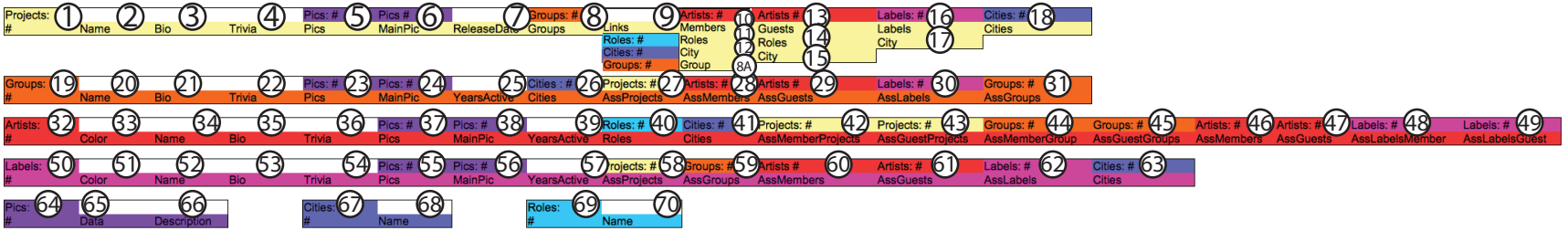
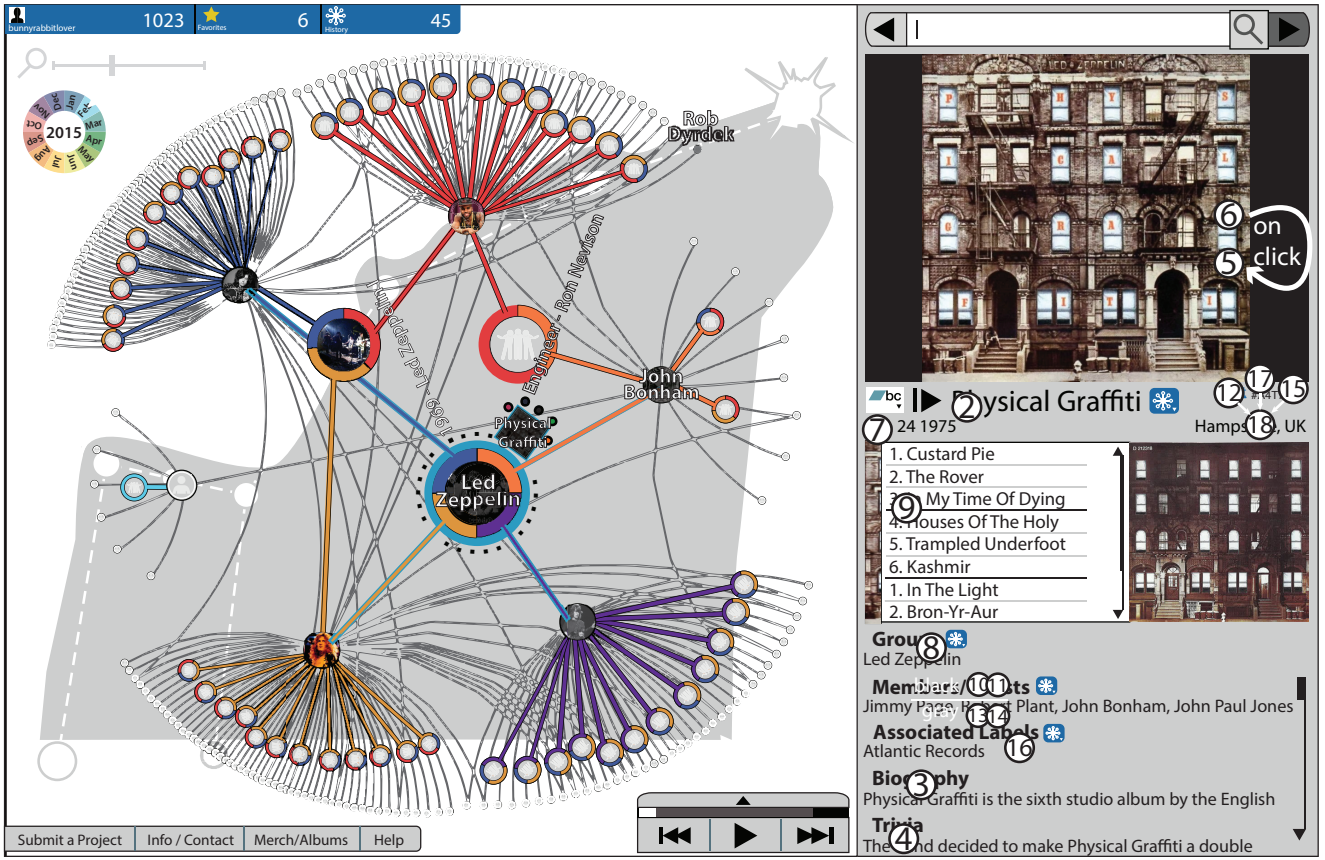
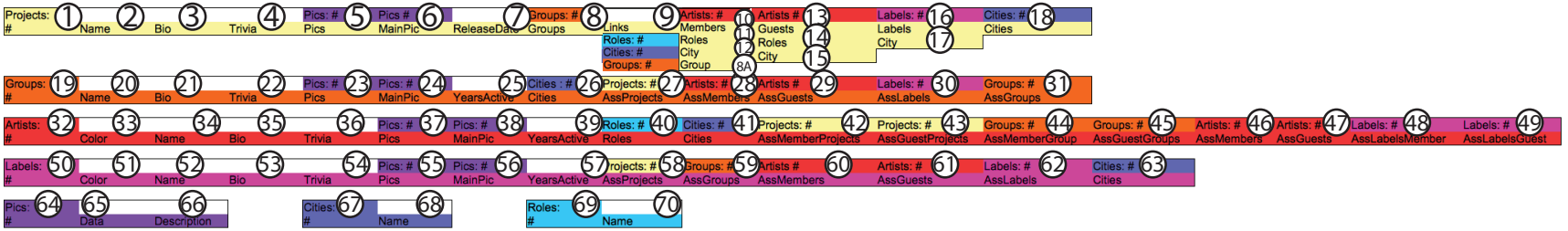




Notes:

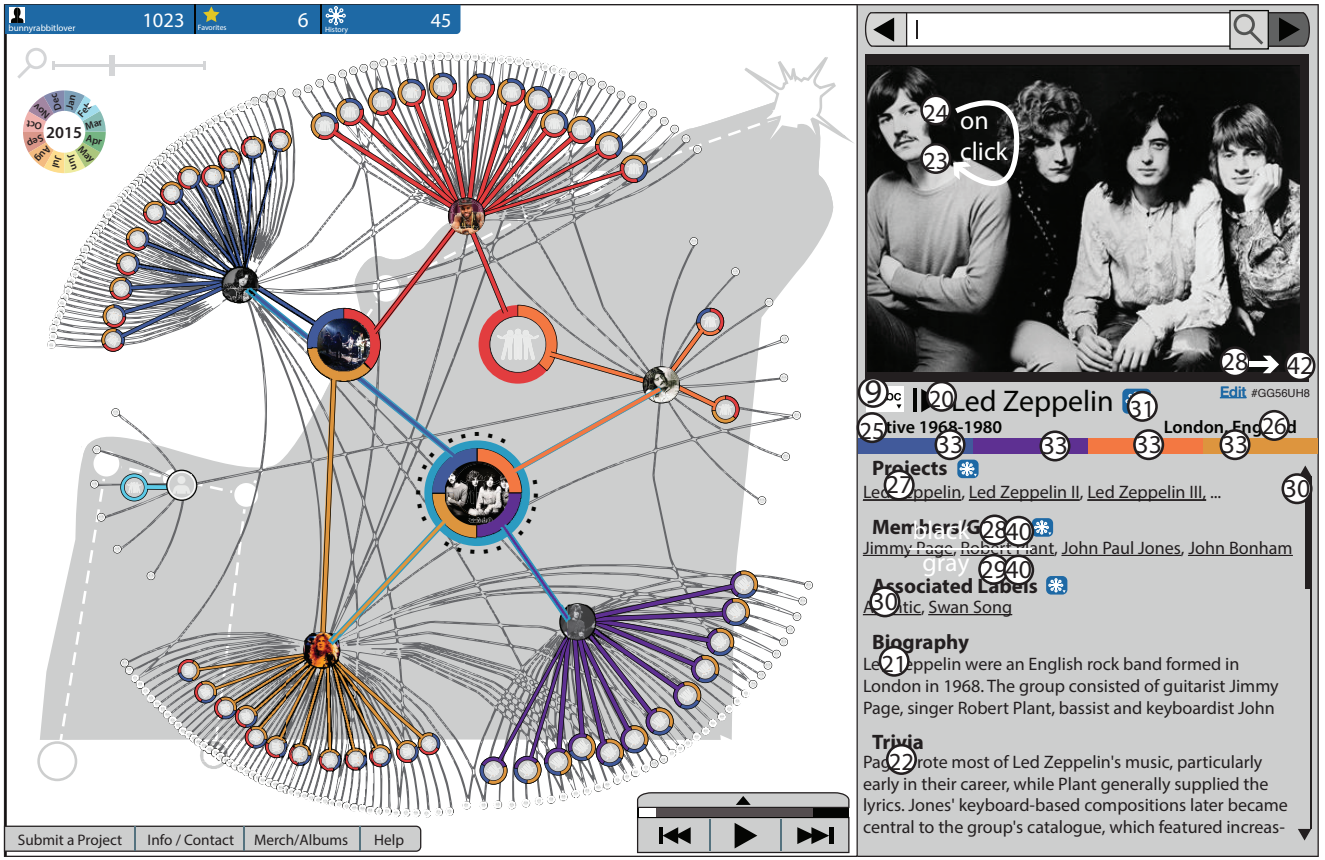
1. Primary Key, Displayed on the graph surrounding the corresponding Group (connected via 19, 27).
2. Displayed on mouse-over of selected project.
3. Manually updated by the user, Displayed in browser window when the project is selected.
4. ""
5. Display in new Gallery window when the MainPic is clicked (6)
6. Display in graph for the selected project. Do not show if no project is selected.
7. Data added here is used for calculating YearsActive for Groups (25), Artists (39), and Labels (57). The earliest date is used for the first year, and the latest for the last year. If the data has been manually edited, the data does not change the value of YearsActive.
8. While data is being entered on the user end, search the database. If the Group is found in the list of Groups, provide a tooltip box with links to each matching Group Name (20), with a small display of Group Cities (26), and Main Picture (24), that the user then clicks to choose from. Otherwise, add a new Group # (19) and Name (20), and use additional info from project input window to auto-populate Associated Projects (27), Associated Guests(29), Associated Members (28), Associated Labels (30), and Associated Groups if multiple groups contributed to the same project (31). Displayed in the Browser window under "related: Groups". When a group name is clicked, its picture is displayed in a tooltip bubble, along with a link to their artist page.
9. Links to the project on Bandcamp, Soundcloud, or other services are used to auto-populate fields like Project Name (2), Groups (8), and any other information that can be pulled from the API. After the project is submitted, utilize each respective API to provide streaming music in the floating player. Player should continue playing as the user browses. Play button should turn from black when not playing, to blue while playing.
10. Members are the collaborators on a project who are considered a part of the group. While data is being entered on the user end, search the database. If the Member is found in the list of artists, provide a tooltip box with links to matching Artist Names (34), Associated Groups as a member (44), and Main Picture (48), that the user then clicks to choose from. Otherwise, add a new artist # and Name, and populate Associated Projects as a member (42), Associated Groups as a member (44), Associated Labels as a member (48), and associated Artists(46&47), with other members populating Associated Members (46) and guests on the project populating Associated Guests (47). The Members are displayed in the "related: People" dropdown window, in black text. When an artist's text is clicked, their picture and roles are displayed in a tooltip bubble, along with a link to their artist page.
11. A Member's role should populate the Artist Roles (40), as well as the Roles Name (70) and # (69). This is intended for tagging purposes, so users could potentially search for people who do a particular thing. The roles of each person should be connected to their name as well as the specific project. A compound table, with each role and city tied to a particular member within a project, would be ideal, but I'm not sure if that exists. Any alternate suggestions would be welcome.
12. A Member's city is used to populate the Project Cities (18), Group Cities (26), Artist Cities (41), and Cities Name (68) and # (67). I don't know if this is the best way to do this but it would work. It is displayed in the browser window when a Project is selected.
8B. Member Groups are used if there are mulitiple groups in a project. Sorry for the odd numbering but I thought of it later and just added it in. The Member Groups are used to used to determine which group a particular member is in. Autofill with group name if there is only one group on a project, otherwise display a drop-down menu with each group that worked on a project.
13. Guests are people who worked on the record who aren't members of the band. On a particular project, an artist is EITHER a member or a guest. Guests are displayed in the graph surrounding the project they've worked on, in a dot with their corresponding Artist Color (33) inside a white border. While data is being entered on the user end, search the database. If the Guest is found in the list of artists, provide a tooltip box with links to matching Artitst Names (34), Associated Groups as a member (44), and Main Picture (48), that the user then clicks to choose from. If there is no matching artist, add a new artist # (32) and Name (34), and use further information to populate Associated Projects as a guest (43), Associated Groups as a guest (45), Associated Labels as a guest(40), and Associated Guests (47) for all associated artists. Displayed in the Browser window under "related: People" dropdown menu, in gray text.When an artist's text is clicked, their picture and roles are displayed in a tooltip bubble, along with a link to their artist page.
14. Guests' roles mirror the data flow and structure of Members' roles (11)
15. Guests' cities mirror the data flow and structure of Members' Cities (12), except without updating Group Cities (26).
16. While data is being entered on the user end, search the database. If the Label is found in the list of Labels, provide a tooltip box with links to each matching Label Name (52), with a small display of Associated Groups (59) Label Cities (63), and Main Picture (56), that the user then clicks to choose from. Otherwise, add a new Label # (50) and Name (52), and use additional info from project input window to auto-populate Associated Projects (58), Associated Groups (59), Associated Members (60), Associated Guests (61), and Associated Labels if multiple labels contributed to the same project (62). Displayed in the Browser window under "related: Labels". When a label name is clicked, its picture is displayed in a tooltip bubble, along with a link to their label page.
17. Label cities follow the data structure of Members' and Guests' cities, with a compound database as previously described. The data is used to populate Label Cities (63) and Project Cities (18), as well as city Name (68) and # (67) if they're not already in the database.
18. Project Cities is determined by the cities that each Member, Guest, and Label have listed. As many cities as can fit are displayed in Project Browser next to the release date.

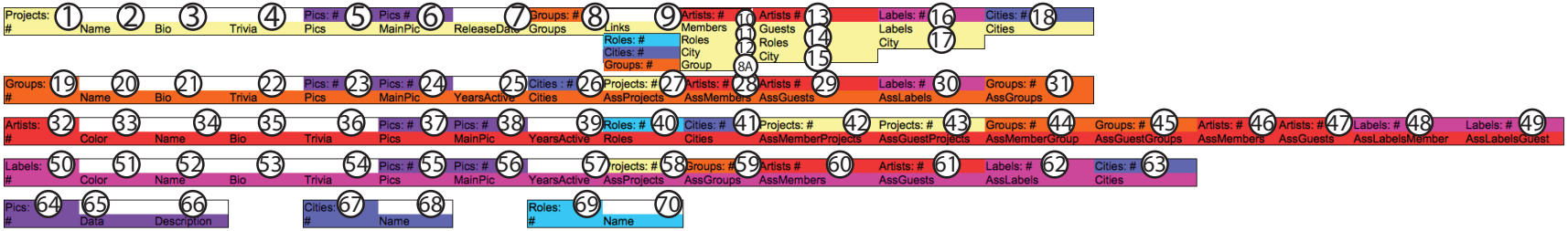




Notes:

19. Group # (19) populates graph, connecting to each group member (28) by a thick line the same color as the Artist Color (33). The line extends into a slice of the donut graph around the Group Main Picture (24). The size of the slice is determined by the proportion of projects, as determined by [total # Group projects that the member worked on (instersection of 42 & 27)] ÷ [total # Group projects (27) x members for each project (10)] x 360 for the degree measure of each artist's slice.
20. Group Name is populated from Project Groups (8). It is displayed in the browser and on the graph, when you mouse-over a group.
21. Bio is filled in manually through the edit link in the browser. It is displayed in the browser when a group is selected.
22. Trivia is filled in manually through the edit link in the brower. It is displayed in the brower when a group is selected.
23. Pics are added manually in the gallery window. When a picture is added, it is added to the Pics database, automatically with # (64) and Data (65). The description is added manually in the same gallery window.
24. One picture is chosen to be the main picture. If nobody selects a main picture, use the most recent one or maybe a random one.
25. YearsActive (25) is determined by the first and last projects' release date (7). If YearsActive is manually updated by a user, then it does not change when a new project is added. This is to avoid broken-up bands or dead artists being mislabeled when a re-release or lost album is released. YearsActive (25) is displayed in the browser window, on the right side of the headline, to the left of Cities.
26. Cities are determined by the Project Cities (18) for projects a group is involved with. Cities are displayed in the browser window on the far right of the headline. Clicking the first city name brings up a window showing the other cities the group is involved with. If there are multiple cities, list in order of frequency.
27. Associated Projects (27) links to a project # (1). Associated projects are depicted on the graph as tiny white squares that expand when clicked into a thumbail of the album cover (6), with the relevant guests (13) surrounding the album cover. They are also displayed in the browser in a drop-down menu.
28. Associated Members link to Artist #s (32) for all members of a group, as determined by the contributing members (10) to an associated project (27). The member's group (8B) must match the selected group's # (19). It is displayed in the browser under the People drop-down menu, at the top in black. It is also used in the graph to determine which artists a particular group connects to.
29. Associated Guests link to artist #s (32) for the guests (13) of associated projects (27). They are displayed in the browser under the People drop-down menu, at the bottom in grey.
30. Associated Labels links to Label #s (50) for Labels (16) involved in Associated Projects (27). They are displayed in the browser window under the Labels drop-down menu.
31. Associated Groups link to Group #s (19) for both other Groups (8) that have worked on a project (27) with the selected group, as well as Associated Groups as a member (44) for Associated Members (28). They are displayed in the browser under the Groups drop-down menu.




Projects: # 1 Name 2 Bio 3 Trivia 4 Pics: # 5 Pics # 6 MainPic ReleaseDate 7 Groups: # 8 Groups Links Roles: # Cities: # Groups: # 9 Artists: # Members 10 Roles 11 City 12 Group 8A Artists # 13 Guests 14 Roles 15 City Labels: # 16 Labels 17 City Cities: # 18 Cities
Groups: # 19 Name 20 Bio 21 Trivia 22 Pics: # 23 Pics: # 24 MainPic YearsActive 25 Cities : # 26 Cities Projects: # 27 AssProjects Artists: # 28 AssMembers Artists # 29 AssGuests Labels: # 30 AssLabels Groups: # 31 AssGroups
Artists: # 32 Color 33 Name 34 Bio 35 Trivia 36 Pics: # 37 Pics: # 38 MainPic YearsActive 39 Roles: # 40 Roles Cities: # 41 Cities Projects: # 42 AssMemberProjects Projects: # 43 AssGuestProjects Groups: # 44 AssMemberGroup Groups: # 45 AssGuestGroups Artists: # 46 AssMembers Artists: # 47 AssGuests Labels: # 48 AssLabelsMember Labels: # 49 AssLabelsGuest
Labels: # 50 Color 51 Name 52 Bio 53 Trivia 54 Pics: # 55 Pics: # 56 MainPic YearsActive 57 rojects: # 58 AssProjects Groups: # 59 AssGroups Artists # 60 AssMembers Artists: # 61 AssGuests Labels: # 62 AssLabels Cities: # 63 Cities
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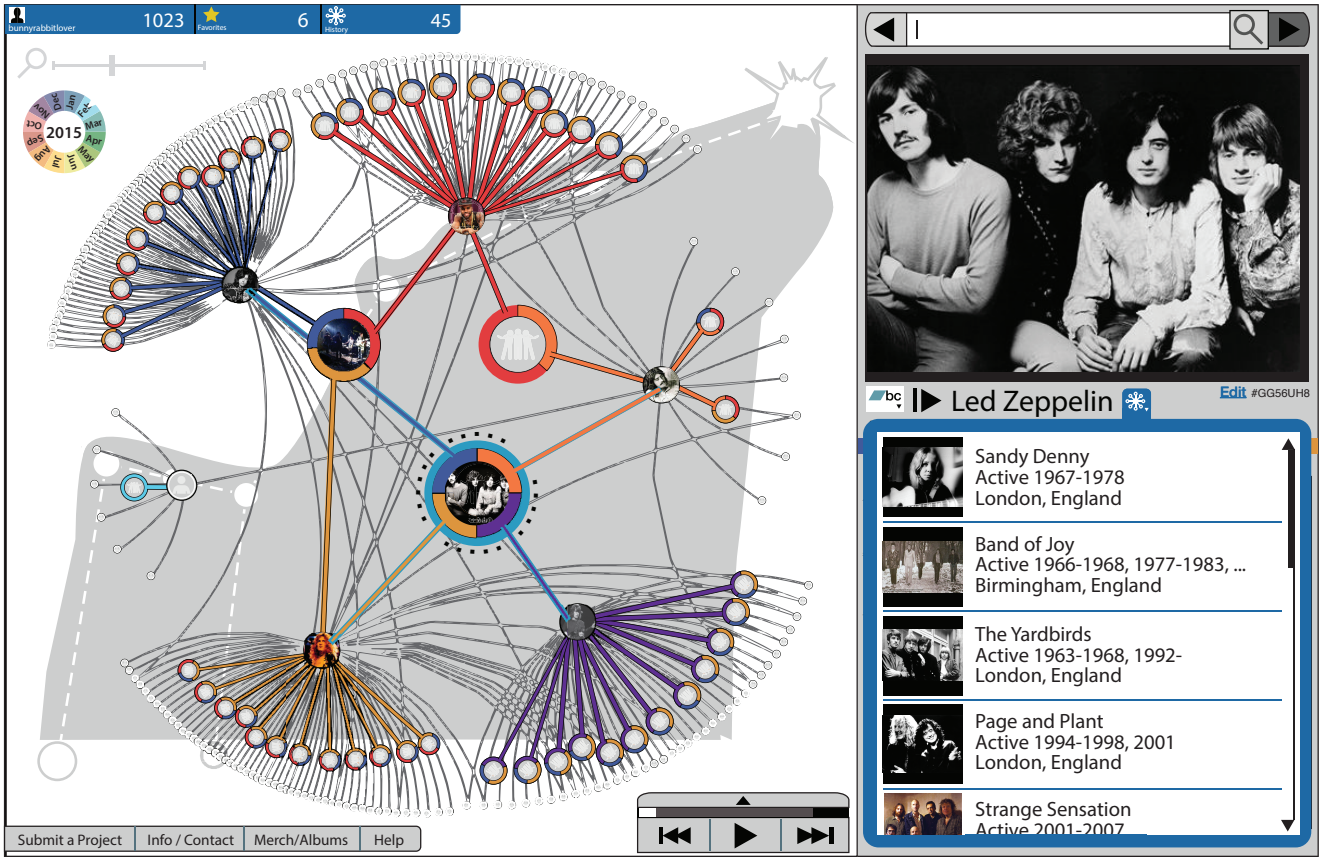
Cities: # 67 Name 68
Roles: # 69 Name 70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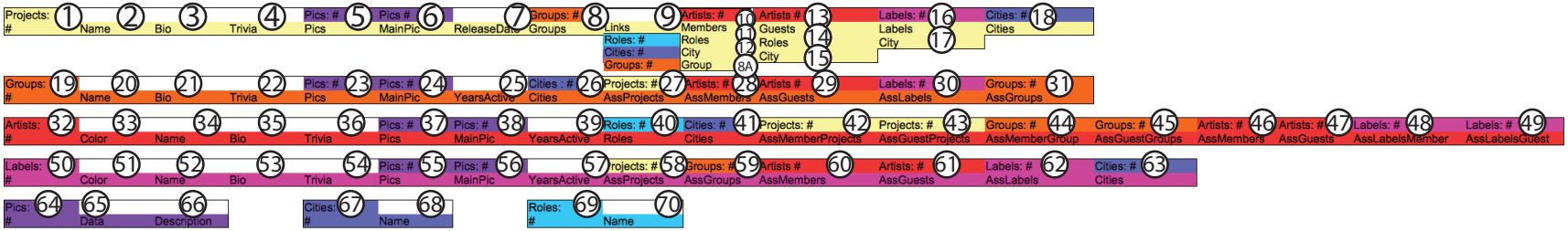
Merch/Albums
Help
Led Zeppelin
Edit #GG56UH8
Sandy Denny
Active 1967-1978
London, England
Band of Joy
Active 1966-1968, 1977-1983, ...
Birmingham, England
The Yardbirds
Active 1963-1968, 1992-
London, England
Page and Plant
Active 1994-1998, 2001
London, England
Strange Sensation
Active 2001-2007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Labels: # 50 Color 51 Name 52 Bio 53 Trivia 54 Pics: # 55 Pics 56 Pics: # MainPic 57 YearsActive rojects: # AssProjects 58 Groups: # AssGroups 59 Artists # AssMembers 60 Artists: # AssGuests 61 Labels: # AssLabels 62 Cities: # 63 Cities
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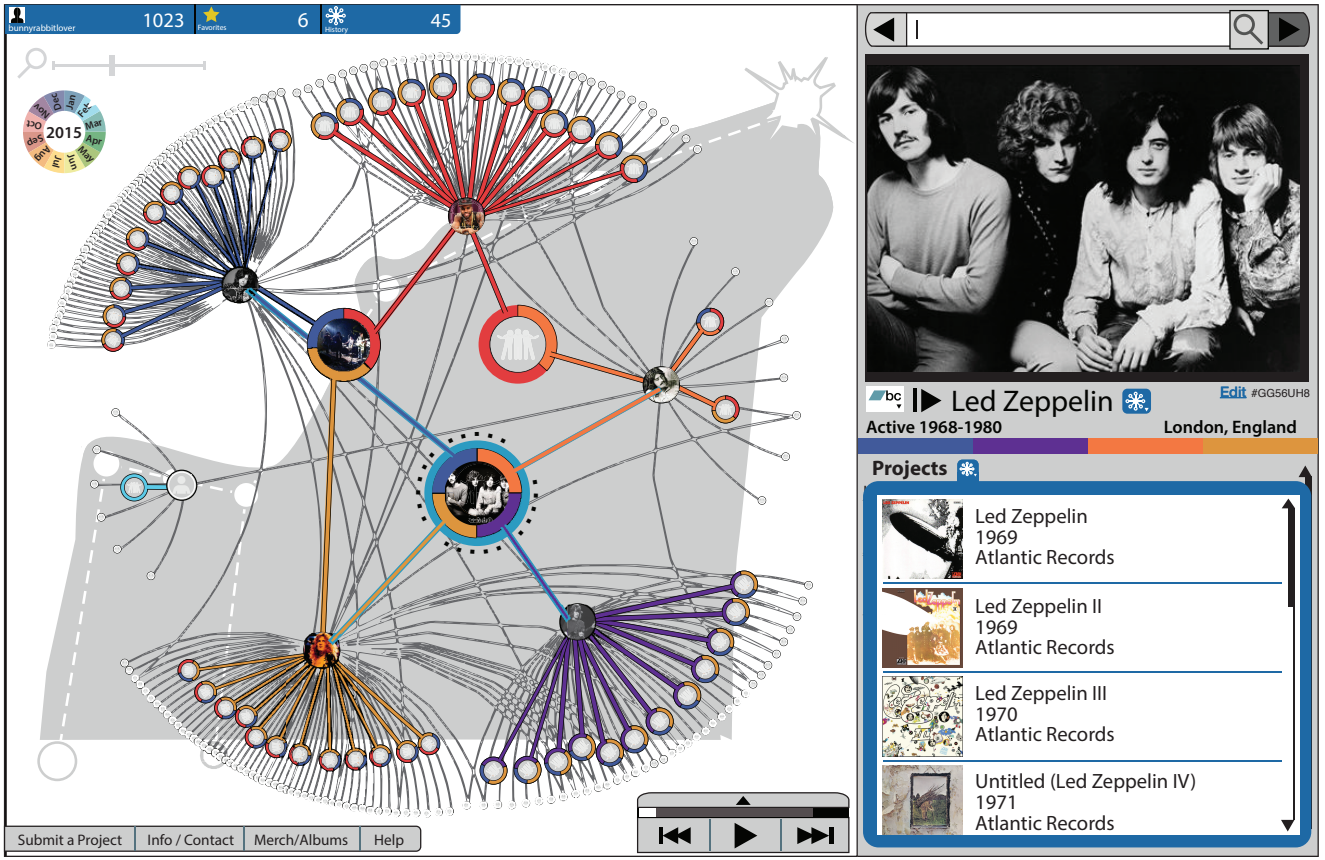
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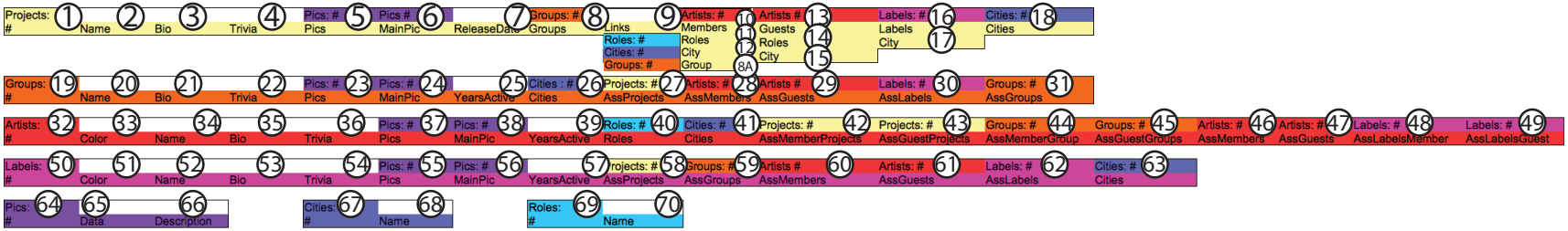
Led Zeppelin
Edit #GG56UH8
Active 1968-1980
London, England
Projects
Led Zeppelin
1969
Atlantic Records
Led Zeppelin II
1969
Atlantic Records
Led Zeppelin III
1970
Atlantic Records
Untitled (Led Zeppelin IV)
1971
Atlantic Records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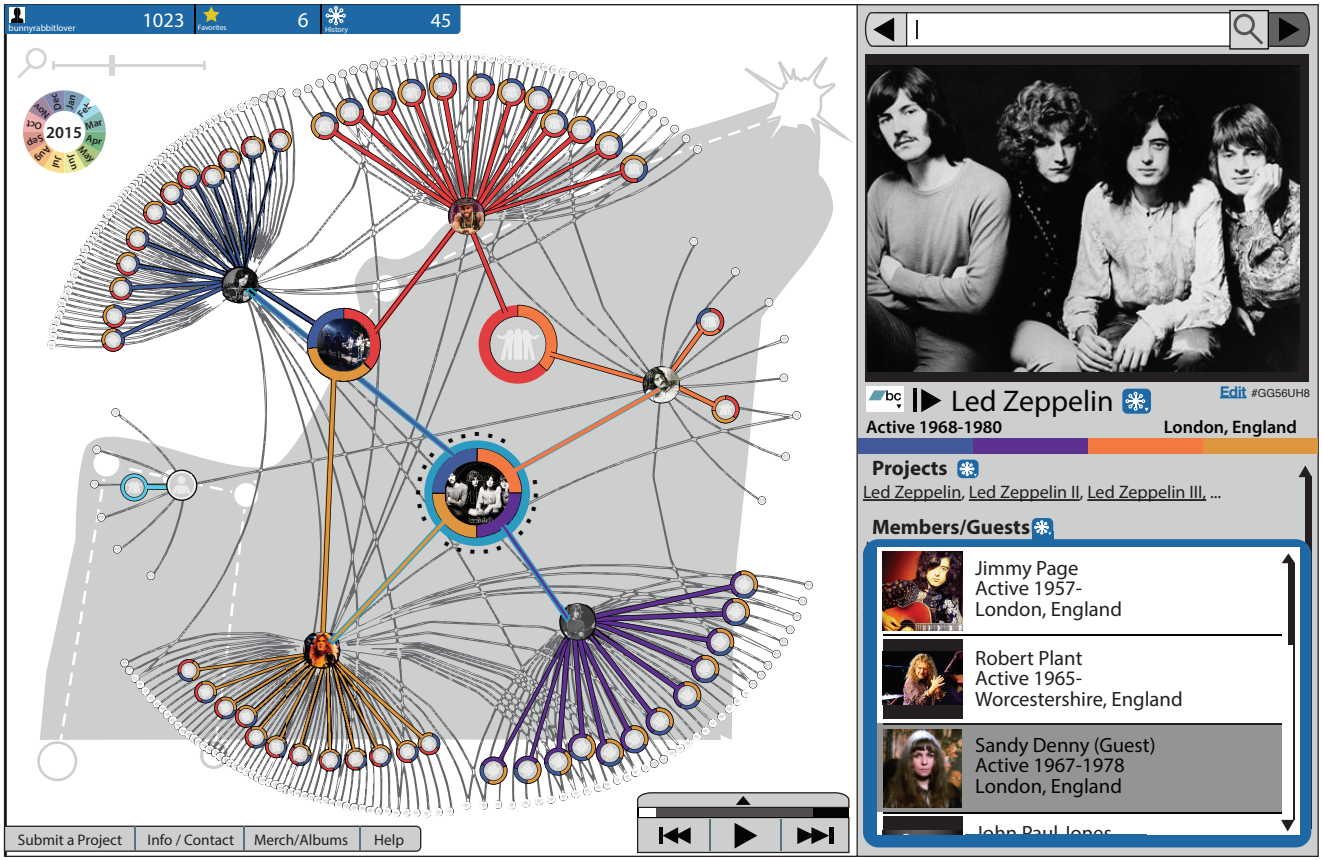
Pics: # 64 65 Data 66 Description
Cities: # 67 Name 68
Roles: # 69 Name 70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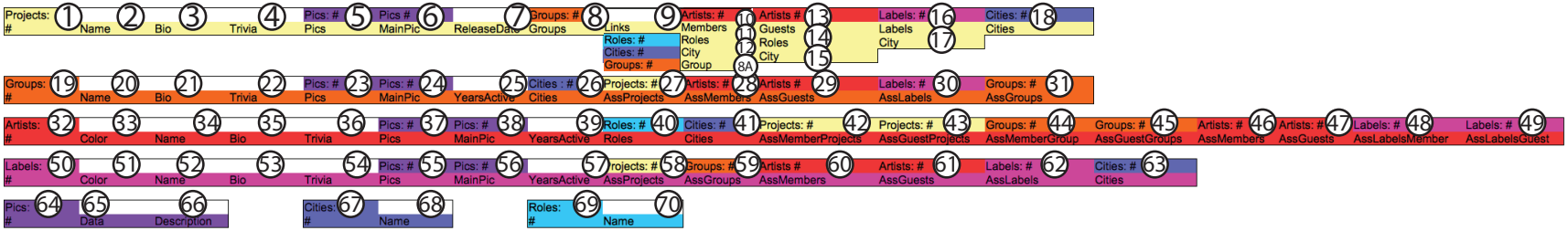
Submit a Project
Info / Contact
Merch/Albums
Help
Led Zeppelin
Edit #GG56UH8
Active 1968-1980
London, England
Projects
Led Zeppelin, Led Zeppelin II, Led Zeppelin III, ...
Members/Guests
Jimmy Page
Active 1957-
London, England
Robert Plant
Active 1965-
Worcestershire, England
Sandy Denny (Guest)
Active 1967-1978
London, England


Projects: # 1 Name 2 Bio 3 Trivia 4
Pics: # 5 Pics # 6 MainPic ReleaseDate 7
Groups: # 8 Groups Links
Roles: # Cities: # Groups: #
9 Artists: # Members Roles City Group
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Artists # 13 Guests 14 Roles 15 City
Labels: # 16 Labels 17 City
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Pics: # 23 Pics # 24 MainPic YearsActive 25
Cities : # 26 Cities
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Artists: # 28 AssMembers
Artists # 29 AssGuests
Labels: # 30 AssLabels
Groups: # 31 AssGroups
Artists: # 32 Color 33 Name 34 Bio 35 Trivia 36
Pics: # 37 Pics # 38 MainPic YearsActive 39
Roles: # 40 Roles
Cities: # 41 Cities
Projects: # 42 AssMemberProjects
Projects: # 43 AssGuestProjects
Groups: # 44 AssMemberGroup
Groups: # 45 AssGuestGroups
Artists: # 46 AssMembers
Artists: # 47 AssGuests
Labels: # 48 AssLabelsMember
Labels: # 49 AssLabelsGuest
Labels: # 50 Color 51 Name 52 Bio 53 Trivia 54
Pics: # 55 Pics # 56 MainPic YearsActive 57
Projects: # 58 AssProjects
Groups: # 59 AssGroups
Artists # 60 AssMembers
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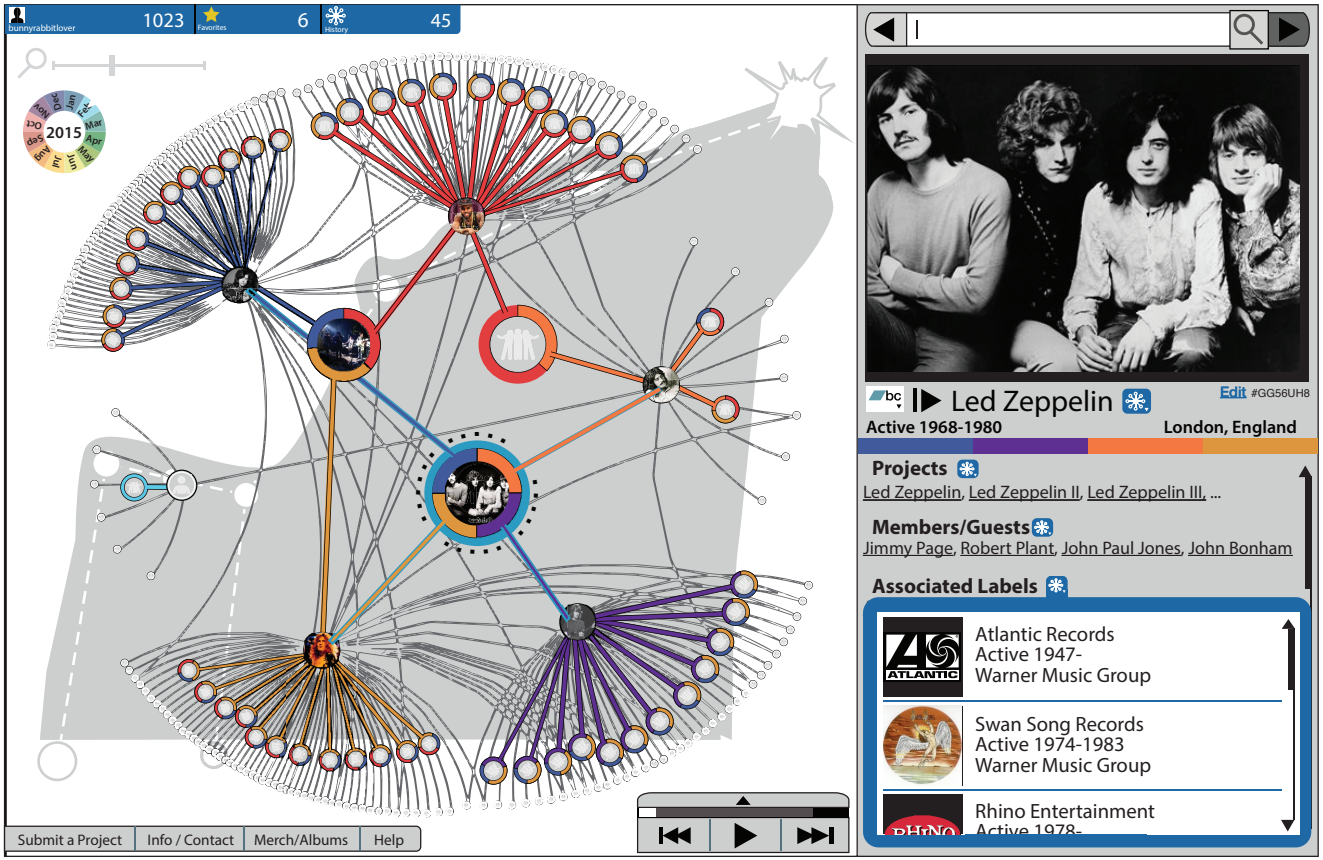
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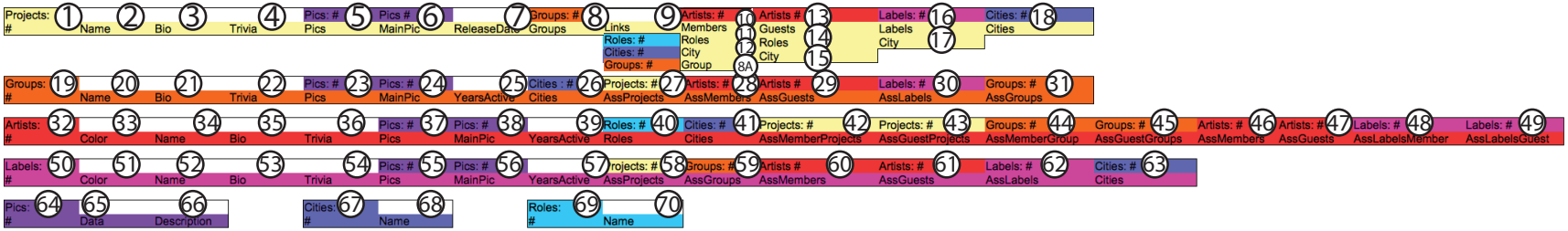
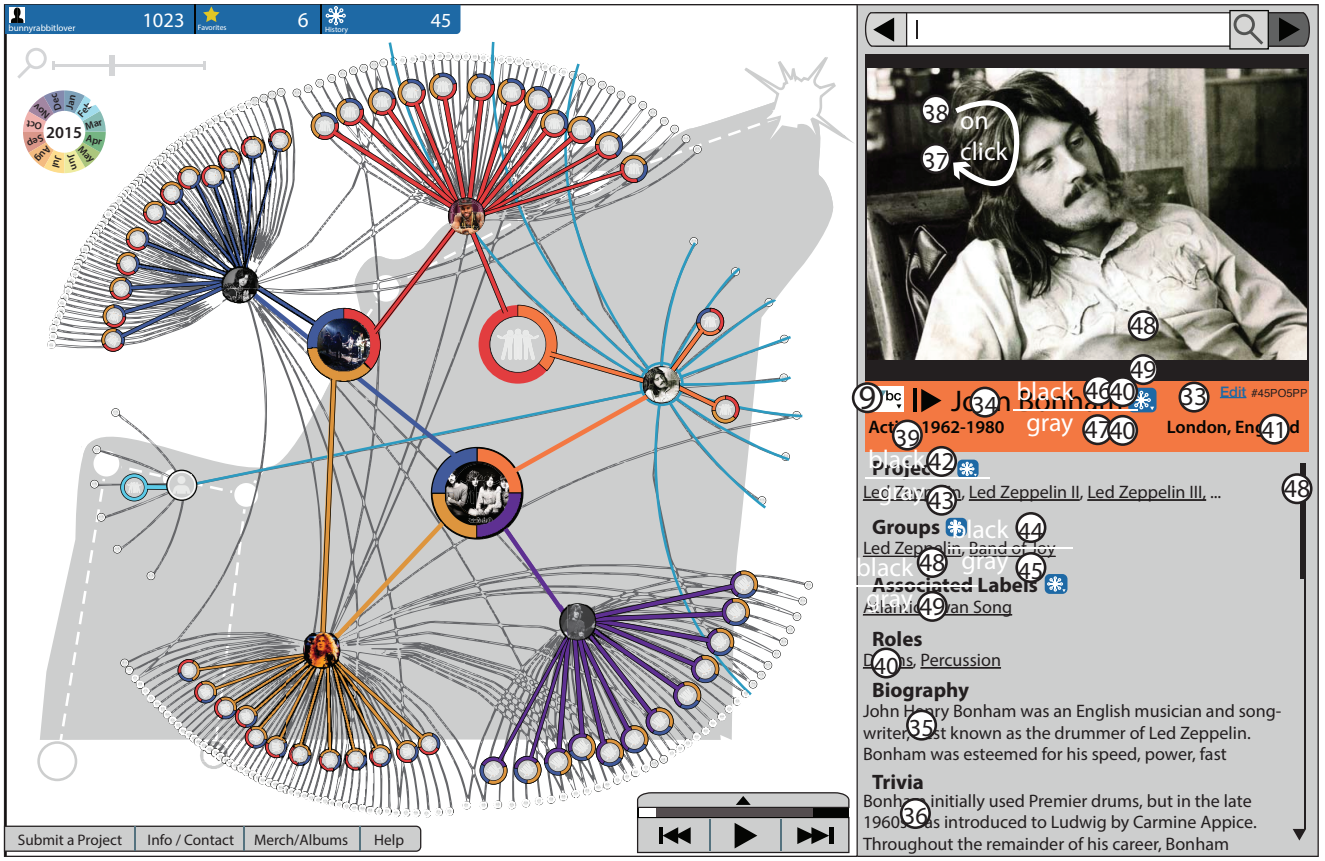
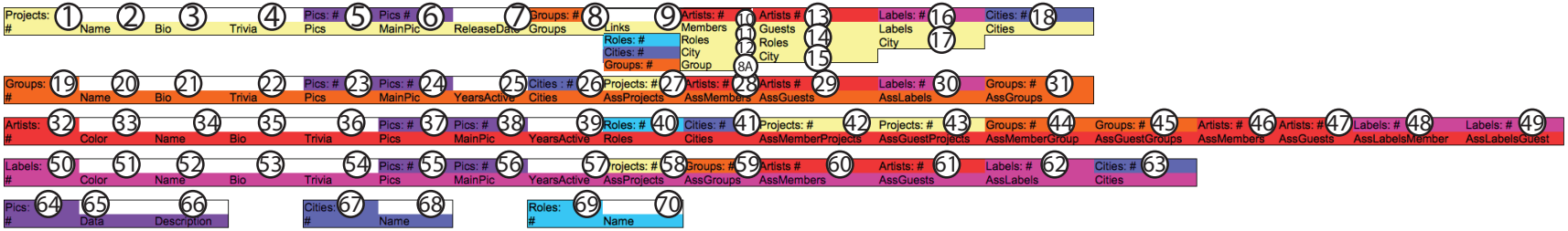
Led Zeppelin
Edit #GG56UH8
Active 1968-1980
London, England
Projects
Led Zeppelin, Led Zeppelin II, Led Zeppelin III, ...
Members/Guests
Jimmy Page, Robert Plant, John Paul Jones, John Bonham
Associated Labels
Atlantic Records
Active 1947-
Warner Music Group
Swan Song Records
Active 1974-1983
Warner Music Group
Rhino Entertainment
Active 1978-



Notes:

32. Artist # populates the graph with artists. Artists are connected with each other if they are either Associated Members (46) or Associated Guests (47) with each other. They are also connected to Associated Member Groups (44), but not Associated Guest Groups (45).
33. Color is chosen manually by the user in the Edit window. The Artist's color is displayed in the graph as a line connecting Artists (32) with their respective Groups (44), and as a portion of the donut graph surrounding the group. The portion of the donut graph reserved to each artist is determined by the process described in (19). The color is also displayed in the top of the browser window, in the upper section of the headline.
34. Artist Name is populated by Project Members (10) and Project Guests (13). It is Displayed on Mouse-over of an Artist's thumbnail in the graph, and in the browser window at the top of the headline.
35. Bio is filled in manually through the edit link in the browser. It is displayed in the browser when a group is selected.
36. Trivia is filled in manually through the edit link in the browser. It is displayed in the brower when a group is selected.
37. Pics are added manually in the gallery window. When a picture is added, it is added to the Pics database, automatically with # (64) and Data (65). The description is added manually in the same gallery window.
38. One picture is chosen to be the main picture. If nobody selects a main picture, use the most recent one or maybe a random one.
39. YearsActive (39) is determined by the first and last projects'(42&43) release date (7). If YearsActive is manually updated by a user, then it does not change when a new project is added. This is to avoid broken-up bands or dead artists being mislabeled when a re-release or lost album is released. YearsActive (39) is displayed in the browser window, on the right side of the headline, to the left of Cities.
40. Roles are determined by the roles that the artist is tagged with (11&14) in each associated project (42&43). Roles are displayed in the main body of the browser window.
41. Cities are determined by the cities that the artist is tagged with (12&15) in each project (42&43). Clicking the first city name brings up a window showing the other cities the group is involved with. If there are multiple cities, list in order of frequency.
42. Associated Projects as a Member (42) links to a project # (1). Associated projects is determined by pushing the project number to each Member (10) of a project. If no member # exists, it is created. Associated projects as a member are displayed in the browser in a drop-down menu, in black.
43. Associated Projects as a Guest (42) links to a project # (1). Associated projects is determined by pushing the project number to each Guest (13) of a project. If no member # exists, it is created. Associated projects as a guest are displayed in the browser in a drop-down menu, in grey.
44. Associated Groups as a member links to a group # (19) as determined by a project pushing the relevant group (8B) to the Member in question (10). Associated groups as a member is displayed in the browser in a drop-down menu, in black.
45. Associated Groups as a guest links to a group # (19) as determined by a project pushing all groups (8) other than the artist's group (8B) to a relevant Member (10). In addition, it's determined by pushing all groups (8) to a relevant Guest (13) on a project. Associated Groups as a guest is diplayed in the browser in a drop-down menu, in grey.
46. Associated Members links to an artist #, as determined by the members (10) of all associated projects (42) who are tagged with the same group (8B). Associated Members is desplayed in the browser, in a drop-down menu.
47. Associated Guests links to an artist #, as determined by the guests (13) of all associated projects as a member (42), as well as the Members (10) and guests (13) of all associated projects as a guest (43), as well as the Members (10) of groups (8) other than the relevant member's group (8B) within a project. Associated Guests is desplayed in the browser, in a drop-down menu.
48. Associated Labels as a member links to Label #s (50) for Labels (16) involved in Associated Projects as a Member (42). They are displayed in the browser window under the Labels drop-down menu, in black.
49. Associated Labels as a guest links to Label #s (50) for Labels (16) involved in Associated Projects as a guest (43). They are displayed in the browser window under the Labels drop-down menu, in grey.





Notes:

50. Label # is the primary key for the label Database. The label is not displayed in the graph, but it is displayed in the browser and referenced by the Artists, Projects, and Groups databases.

51. Color is chosen manually by the user in the Edit window. The color is displayed in the top of the browser window, in the upper section of the headline.

52. Label Name is populated by Project Labels (16). It is displayed in the browser window at the top of the headline.

53. Label Bio is filled in manually through the edit link in the browser. It is displayed in the browser when a Label is selected.

54. Label trivia is filled in manually through the edit link in the browser. It is displayed in the brower when a label is selected.

55. Pics are added manually in the gallery window. When a picture is added, it is added to the Pics database, automatically with # (64) and Data (65). The description is added manually in the same gallery window.

56. One picture is chosen to be the main picture. If nobody selects a main picture, use the most recent one or maybe a random one.

57. YearsActive (57) is determined by the first and last associated projects'(58) release date (7). If Years-Active is manually updated by a user, then it does not change when a new project is added. This is to avoid defunct labels being mislabeled when a re-release or lost album is released. YearsActive (39) is displayed in the browser window, on the right side of the headline, to the left of Cities.

58. Associated Projects (58) links to a project # (1). Associated projects is determined by pushing the project number to each Label (16) involved in a project. If no matching Label # exists, it is created. Associated projects are displayed in the browser in a drop-down menu.

59. Associated Groups links to a group # (19) as determined by a project pushing the project's groups (8) to the Label in question (16). Associated groups are displayed in the browser in a drop-down menu.

60. Associated Members links to an artist #, as determined by the members (10) of all associated projects (58). Associated Members is desplayed in the browser, in a drop-down menu.

61. Associated Guests links to an artist #, as determined by the guests (13) of all associated projects. Associated Guests is desplayed in the browser, in a drop-down menu.

62. Associated Labels links to Label #s (50) for other Labels (16) involved in Associated Projects (58). They are displayed in the browser window under the Labels drop-down menu.

63. Cities are determined by the cities that the label is tagged with (17) in each project (58). Clicking the first city name brings up a window showing the other cities the group is involved with. If there are multiple cities, list in order of frequency.

PICS:

64. Label # is the primary key for the label Database. The pictures are not displayed directly, but each project, group, artist, and label's respective gallery and main picture.

65. Data is where the data for the photo goes. Allow a max size of at least 2000px square.

NOTE: It would probably be good to include a database item for thumbnails.

66. Description is filled in manually in each project, group, artist, and label's photo gallery. It is dislplayed beneath the picture in its respective gallery.

CITIES:

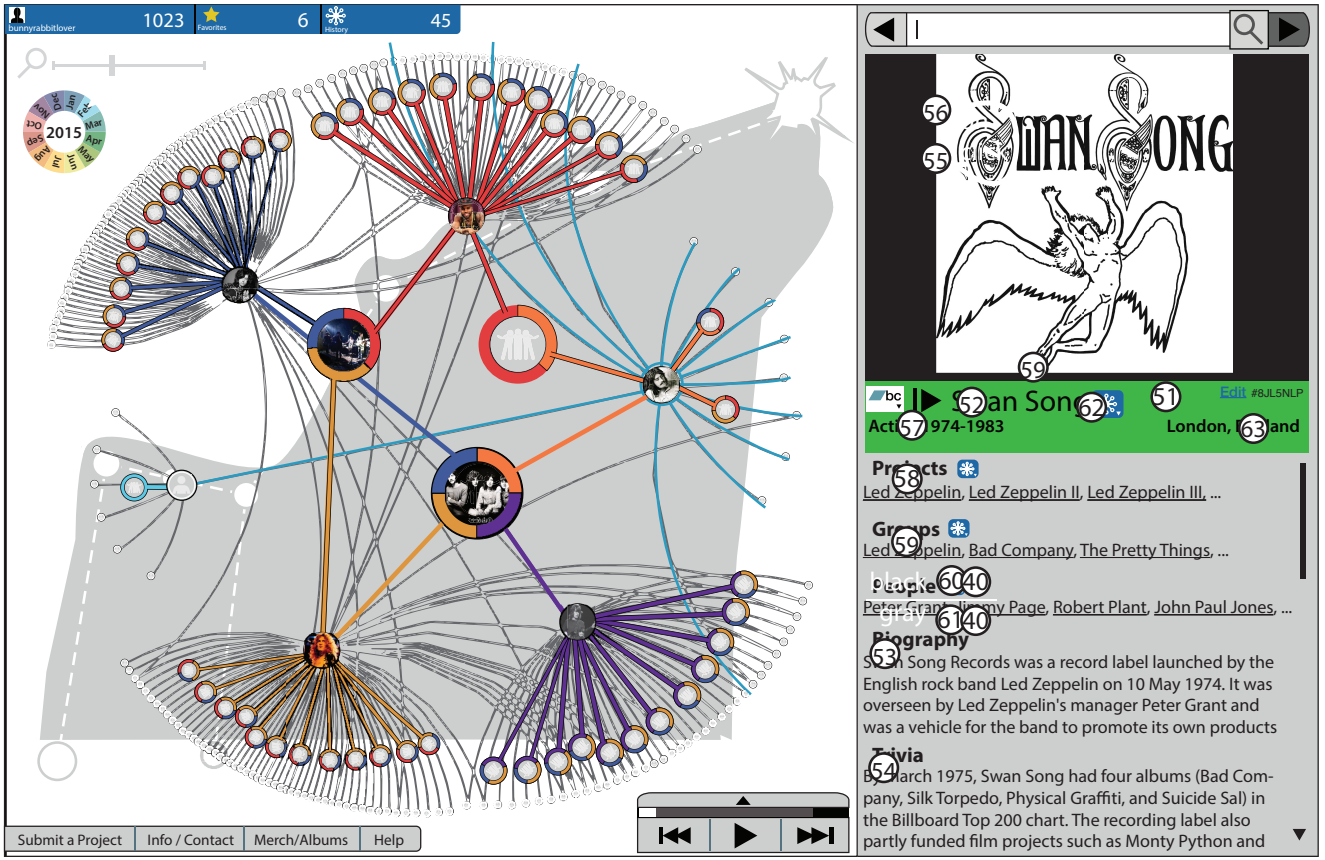
67. City # is the primary key for the city database. Using Zip or Postal codes as the primary key could be possible, or there may be a google maps API that allows bypassing this section of the database altogether.

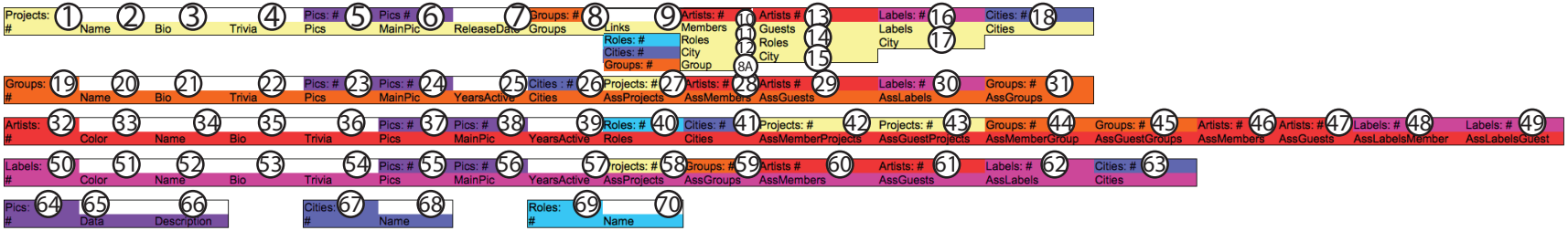
68. The City name is filled in through the project submission window, in the label and artist cities (12,15,17), and is pushed to the city database.

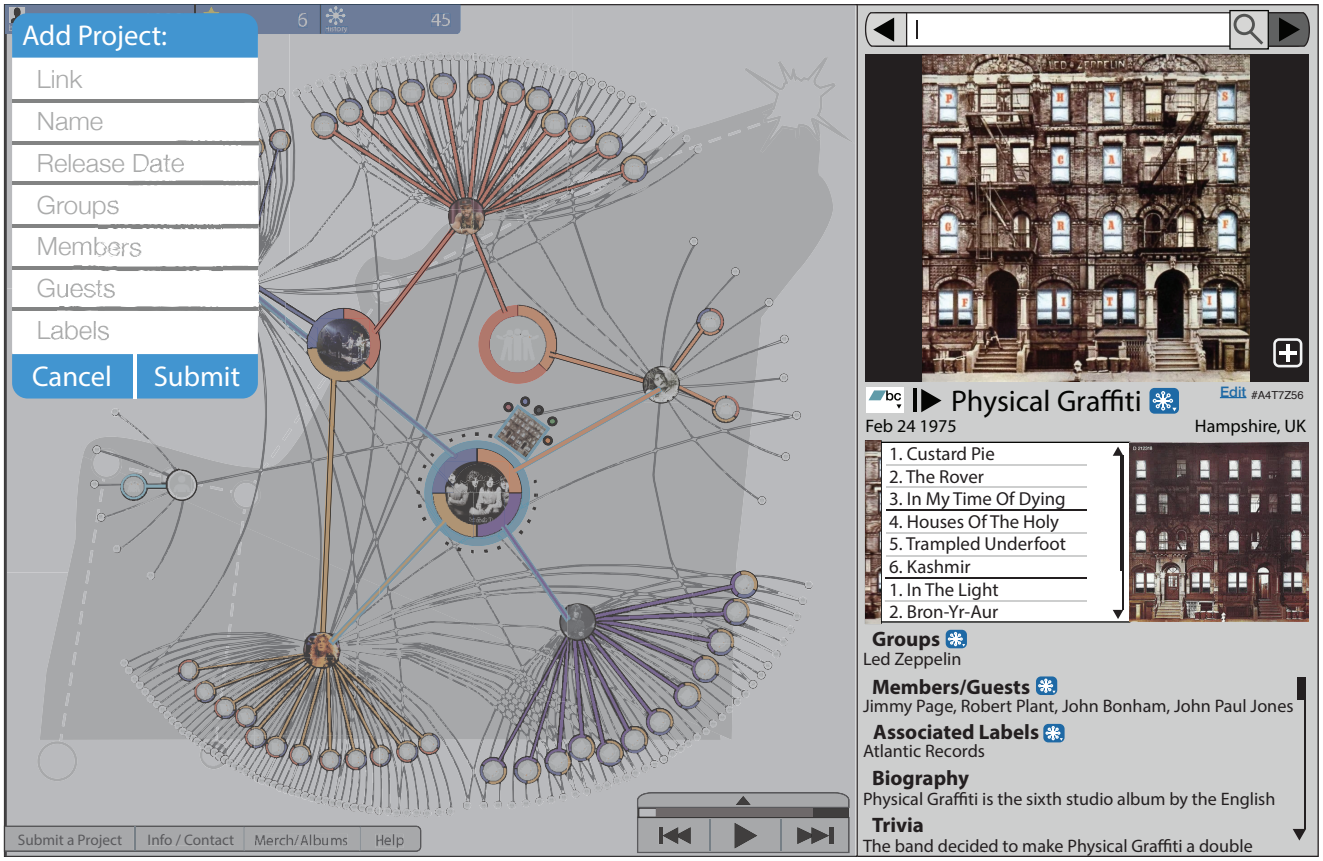
ROLES:

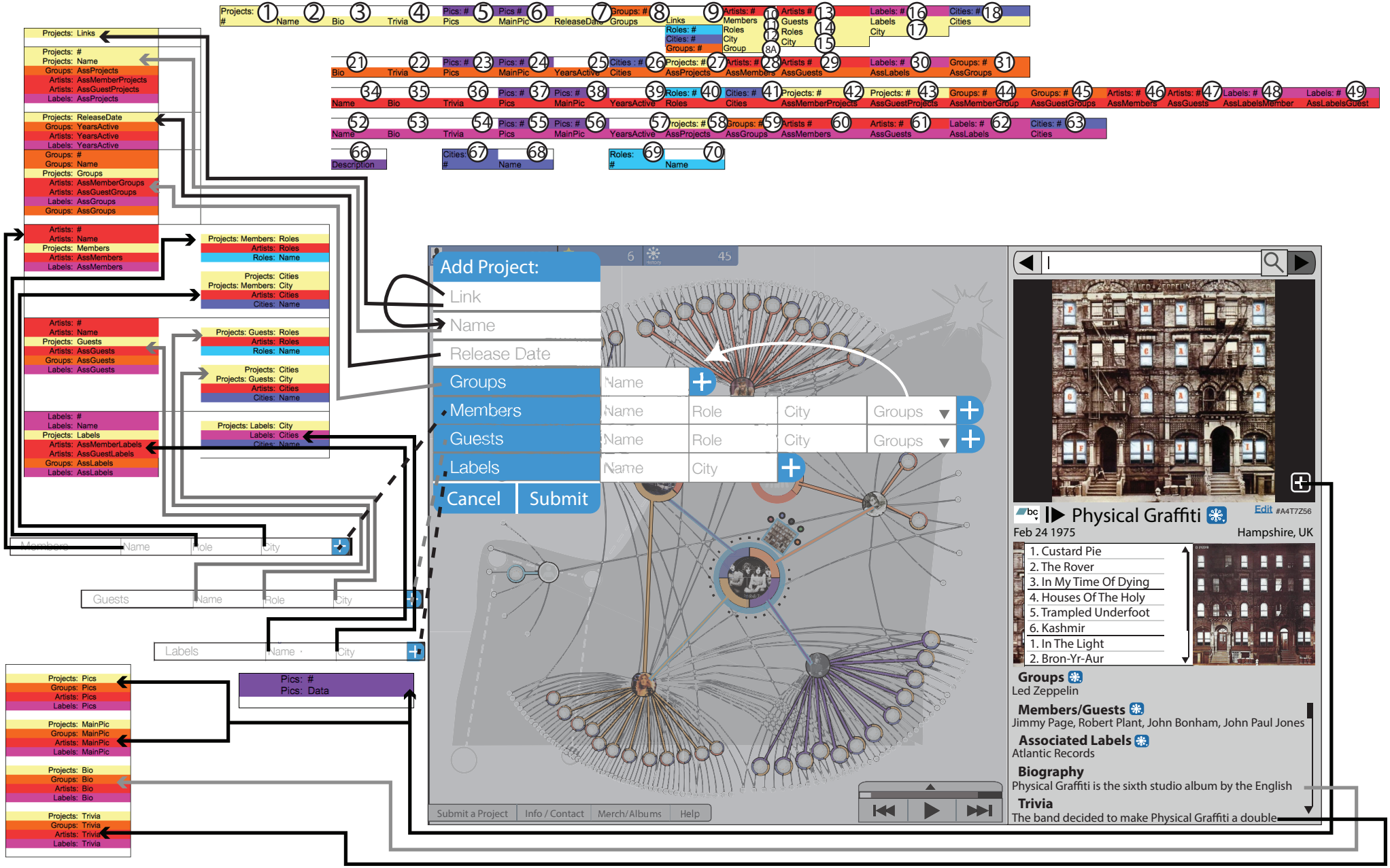
69. Role # is the primary key for the role database. The intention of this database is to provide a tagging system to allow for searching for people who have certain skills, like saxophone skills or recording engineering experience. There may be an easier way to do this, but it would work.

70. Role Name is filled in through the project submission window, for each contributing artist's role (11,14), and is pushed to the city database.




Projects: # 1 Name 2 Bio 3 Trivia 4 Pics: # 5 Pics # 6 MainPic ReleaseDate 7 Groups: # 8 Groups Links Roles: # Cities: # Groups: # 9 Artists: # Members Roles City Group 10 11 12 8A Artists # 13 Guests 14 Roles City 15 Labels: # 16 Labels City 17 Cities: # 18 Cities
Groups: # 19 Name 20 Bio 21 Trivia 22 Pics: # 23 Pics: # 24 MainPic YearsActive 25 Cities : # 26 Cities Projects: # 27 AssProjects Artists: # 28 AssMembers Artists # 29 AssGuests Labels: # 30 AssLabels Groups: # 31 AssGroups
Artists: # 32 Color 33 Name 34 Bio 35 Trivia 36 Pics: # 37 Pics: # 38 MainPic YearsActive 39 Roles: # 40 Roles Cities: # 41 Cities Projects: # 42 AssMemberProjects Projects: # 43 AssGuestProjects Groups: # 44 AssMemberGroup Groups: # 45 AssGuestGroups Artists: # 46 AssMembers Artists: # 47 AssGuests Labels: # 48 AssLabelsMember Labels: # 49 AssLabelsGuest
Labels: # 50 Color 51 Name 52 Bio 53 Trivia 54 Pics: # 55 Pics: # 56 MainPic YearsActive 57 rojects: # 58 AssProjects Groups: # 59 AssGroups Artists # 60 AssMembers Artists: # 61 AssGuests Labels: # 62 AssLabels Cities: # 63 Cities
Pics: # 64 65 Data 66 Description
Cities: # 67 Name 68
Roles: # 69 Name 70


Add Project:
Link
Name
Release Date
Groups
Members
Guests
Labels
Cancel
Submit
Submit a Project
Info / Contact
Merch/Albums
Help
Physical Graffiti
Edit #A4T7Z56
Feb 24 1975
Hampshire, UK
1. Custard Pie
2. The Rover
3. In My Time Of Dying
4. Houses Of The Holy
5. Trampled Underfoot
6. Kashmir
1. In The Light
2. Bron-Yr-Aur
Groups
Led Zeppelin
Members/Guests
Jimmy Page, Robert Plant, John Bonham, John Paul Jones
Associated Labels
Atlantic Records
Biography
Physical Graffiti is the sixth studio album by the English
Trivia
The band decided to make Physical Graffiti a double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