

# Describing Music Resources

## Filename-based descriptive information:

### Etree:

- Standard for live-concert-recording collecting community
- Early SHN format: no meta tags

gd83-10-31.horvath-sennheiser.ladner.19894.sbeok.d1t01.shn

- Relies on text files with richer information
- FLAC format introduced: embeddable meta tags

Source: <http://wiki.etree.org/index.php?page=NamingStandards>

# Describing Music Resources

## ID3v1 (1996)

- First attempt to embed meta tags into MP3s
- Initial version fraught with limitations:
  - Only 9 fields to describe a song file (later 12)
  - Max 30 characters for artists, albums, songs
  - No disc number

# Describing Music Resources

## ID3v2 (1998)

- Enhanced standard created by group of professionals
- Objective: universal applicability
- Example tags introduced:
  - Rating (1-5 stars)
  - Images: cover, concert photo, "a bright colored fish"
  - Beats per minute, copyright info
- Used in MP3s, AIFF, Apple M4A

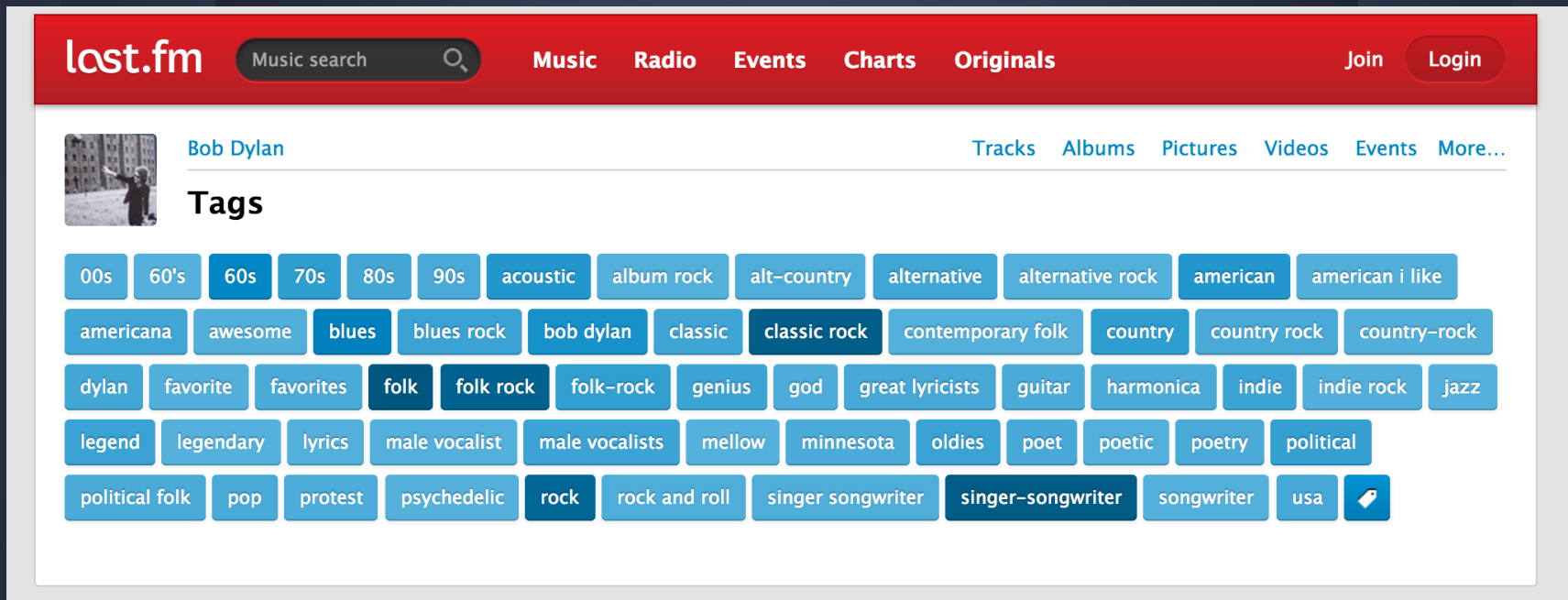
# Describing Music Resources

## Creative, rich descriptions of music

- AllMusic - Mood - "Romantic", "Bittersweet", "Druggy"
- Beatport - BPM tagged in each song
- Pandora - staff-generated descriptors (Music Genome)
- Last.FM - crowd-sourced descriptors (tag soup?)
- What.CD - community-driven association engine, web of similar artists

# Describing Music Resources

## Last.FM tags for Bob Dylan

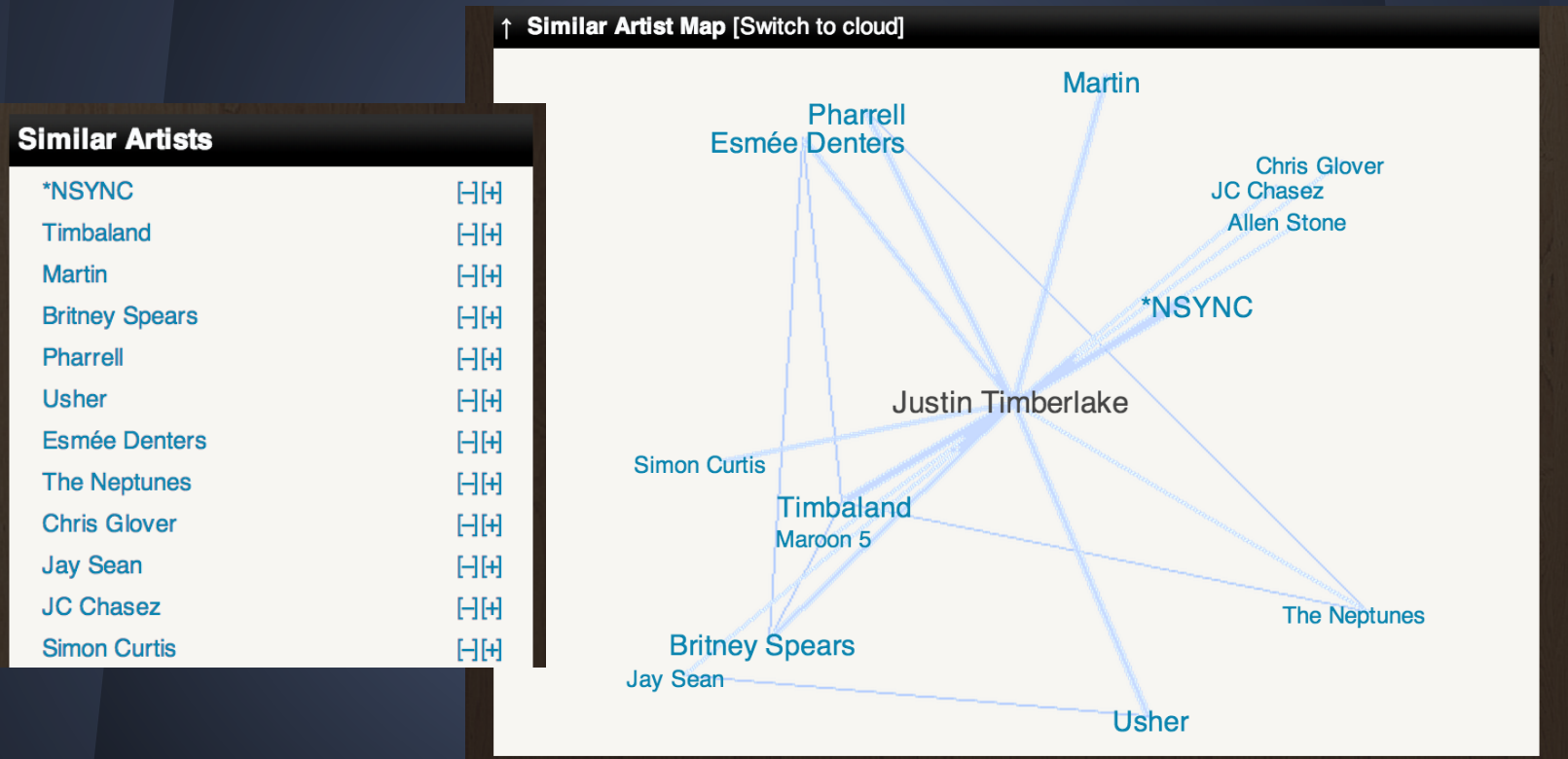


The screenshot shows the Last.fm website interface. At the top is a red navigation bar with the Last.fm logo, a search bar, and links for Music, Radio, Events, Charts, and Originals. On the right of the bar are links for Join and Login. Below the navigation bar is the profile header for Bob Dylan, including a small profile picture, the name "Bob Dylan", and links for Tracks, Albums, Pictures, Videos, Events, and More... The main content area is titled "Tags" and displays a grid of blue buttons representing various music genres and descriptors. The tags are arranged in five rows:

- 00s, 60's, 60s, 70s, 80s, 90s, acoustic, album rock, alt-country, alternative, alternative rock, american, american i like
- americana, awesome, blues, blues rock, bob dylan, classic, classic rock, contemporary folk, country, country rock, country-rock
- dylan, favorite, favorites, folk, folk rock, folk-rock, genius, god, great lyricists, guitar, harmonica, indie, indie rock, jazz
- legend, legendary, lyrics, male vocalist, male vocalists, mellow, minnesota, oldies, poet, poetic, poetry, political
- political folk, pop, protest, psychedelic, rock, rock and roll, singer songwriter, singer-songwriter, songwriter, usa, [edit icon]

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## What.CD Similar Artist Map



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## Content-based description - audio fingerprints

- Shazam, Soundhound

