

Freebase and the Google Knowledge Graph

Freebase

- Started in 2005 by startup Metaweb
- Goal: create an “open, shared database of the world's knowledge”
- Freebase online in 2007
- Acquired by Google in 2010
- Readonly in 2014
- Decommissioned in 2016
- Last dump available as RDF

Approach

- Initially populated with Wikipedia data
 - Crowdsourced updates and additions to schema and data, like Wikipedia
 - Tools for uploading structured data
 - of both schema and data
- Graph based schema, but syntax and semantics different from RDF
- Open source data which could be downloaded initially in a custom format, later in RDF
- Business model: sell services using their custom query engine


Screenshot

The screenshot shows a Freebase profile for Miley Cyrus. The page is divided into several sections: a top navigation bar, a main profile area with a photo and biographical text, a left sidebar with navigation links, a 'People' section with a detailed bio, and a right sidebar with external links. The Freebase logo and search bar are at the top left. The main profile area includes a photo of Miley Cyrus and a paragraph of text describing her as an American actress and pop singer, mentioning her role as Miley Stewart/Hannah Montana. Below the photo is a 'Read article at Wikipedia' link. The 'People' section provides more details, such as her date of birth (Nov 23, 1992), place of birth (Nashville, Tennessee), and musical genres (Pop rock, Teen pop, etc.). The right sidebar lists various external links, including her official website, MusicBrainz profiles, IMDb profile, NNDB, Wikipedia, Facebook Page, MySpace Page, Daylife Topic Page, TVRage, Chickpedia, celebarchiv.com, Miley Cyrus Videos, Netflix, Portuguese Wikipedia, Russian Wikipedia, Japanese Wikipedia, Spanish Wikipedia, and Bulgarian Wikipedia. A watermark for 'AppAppeal' is visible in the bottom right corner.

Freebase Find topics... Data Schema Apps Docs Sign In or Sign Up


Miley Cyrus

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 Miley Ray Cyrus (born Destiny Hope Cyrus; November 23, 1992) is an American actress and pop singer. She achieved wide fame for her role as Miley Stewart/Hannah Montana on the Disney Channel sitcom Hannah Montana. Cyrus recorded music for the soundtracks, Hannah Montana (2006) and Hannah Montana 2/Meet Miley Cyrus (2007), released by Walt Disney Records. With the success of the Hannah Montana franchise she established herself as a teen idol. In 20... [More](#)
[W](#) [Read article at Wikipedia](#)

Date of birth: Nov 23, 1992 (age 18 years)
Place of birth: Nashville, Tennessee, United States of America
Place Musical Career Began: Los Angeles, North America
Active as Musical Artist (start): 2003
Musical Genres: Pop rock, Teen pop, Bubblegum pop, Dance-pop, Pop music, Country pop, Electropop, Southern rock, Adult contemporary music
Also known as: Miley Ray Cyrus, Destiny Hope Cyrus, Hannah Montana, Smiley Miley, Cyrus, Miley, Destiny Cyrus

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Miley Cyrus elsewhere on the web

- ★ Official Website
- MusicBrainz
- MusicBrainz
- IMDb profile
- NNDB
- Wikipedia
- Facebook Page
- MySpace Page
- Daylife Topic Page
- TVRage
- Chickpedia
- celebarchiv.com
- Miley Cyrus Videos
- Netflix
- Portugese Wikipedia
- Russian Wikipedia
- Japanese Wikipedia
- Spanish Wikipedia
- Bulgarian Wikipedia

People

Place of birth: Nashville, Tennessee, United States of America

Miley Cyrus Quotes

« Pink isn't just a color, it's an attitude! »

Country of nationality: United States of America

Gender: Female

Profession: Singer
Actor
Songwriter
Guitarist

AppAppeal

The Last Picture Show

- The final dump with 1.9 Billion triples in RDF is available from Google
- See also <http://basekb.com/docs/>
- Being used for DARPA Deft program and NIT TAC as a reference KB

Google Knowledge Graph

- Freebase was the initial version of the google knowledge Graph, aka Knowledge Vault
- You can query it in a limited way
 - Inputs: query string, types, limit
 - Outputs: ...
- See simple `gkg.py` example

Example

Query about Taylor Swift

```
https://kgsearch.googleapis.com/v1/  
entities:search?query=taylor  
+swift&key=API_KEY&limit=1&indent=True
```

```
{"@context": { "@vocab": "http://schema.org/",
  "goog": "http://schema.googleapis.com/",
  "resultScore": "goog:resultScore",
  "detailedDescription": "goog:detailedDescription",
  "EntitySearchResult": "goog:EntitySearchResult",
  "kg": "http://g.co/kg"},
"@type": "ItemList",
"itemListElement": [
  { "@type": "EntitySearchResult",
    "result": { "@id": "kg:/m/0dl567",
      "name": "Taylor Swift",
      "@type": ["Thing", "Person"],
      "description": "Singer-songwriter",
      "image": {"contentUrl": "https://t1.gstatic.com/images?q=tbn:ANd9GcQm...",
        "url": "https://en.wikipedia.org/wiki/Taylor_Swift",
        "license": "http://creativecommons.org/licenses/by-sa/2.0"},
      "detailedDescription": {"articleBody": "Taylor Alison Swift is an American singer-songwriter ...",
        "url": "http://en.wikipedia.org/wiki/Taylor_Swift",
        "license": "https://en.wikipedia.org/wiki/Wikipedia:Text_of_Creative_..."},
      "url": "http://taylorswift.com/" },
    "resultScore": 896.576599 } ] }
```