

Spotify-ed

Music recommendation and discovery in Spotify

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Fabien Gouyon *fgouyon@inescporto.pt*

RAMA Relational Artist MAs

RAMA Relational Artist MAPs

Why RAMA?



RAMA

Relational Artist MApps

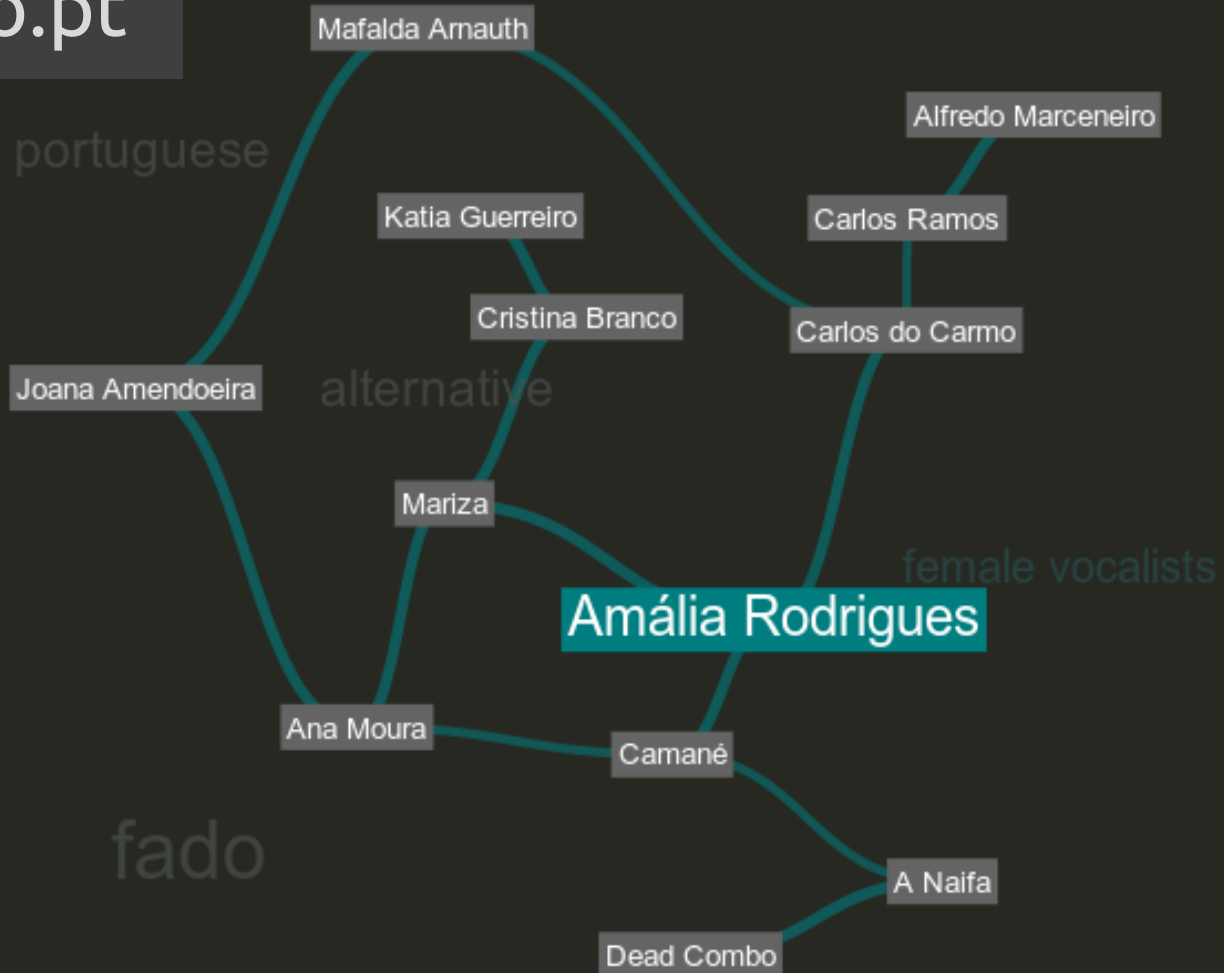
What is RAMA?

rama.inescporto.pt

RAMA Relational Artist MAs

What is RAMA?

rama.inescporto.pt



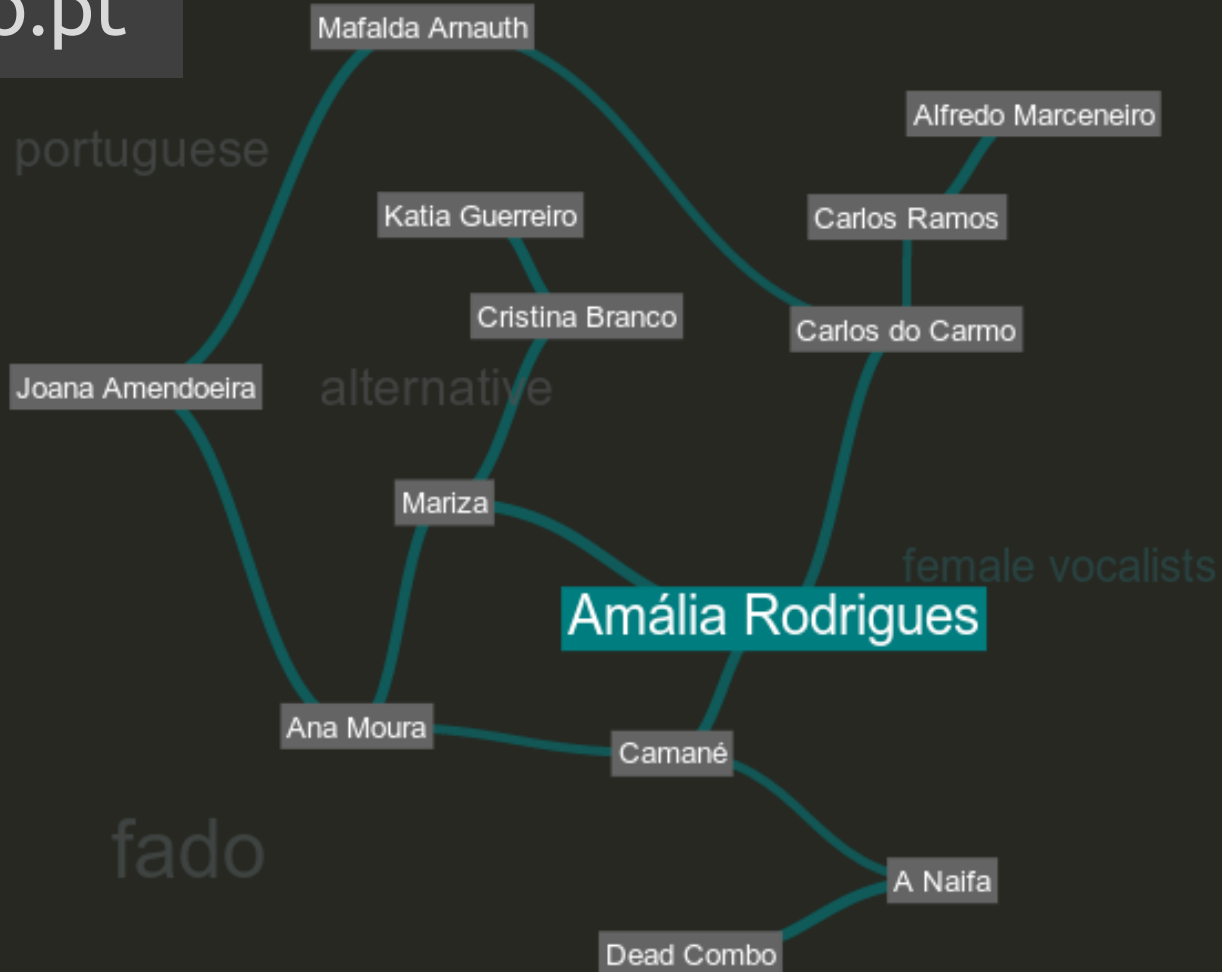
RAMA Relational Artist MAPs

What is RAMA?

rama.inescporto.pt

artist metadata from

last.fm



RAMA Relational Artist MAPs

What is RAMA?

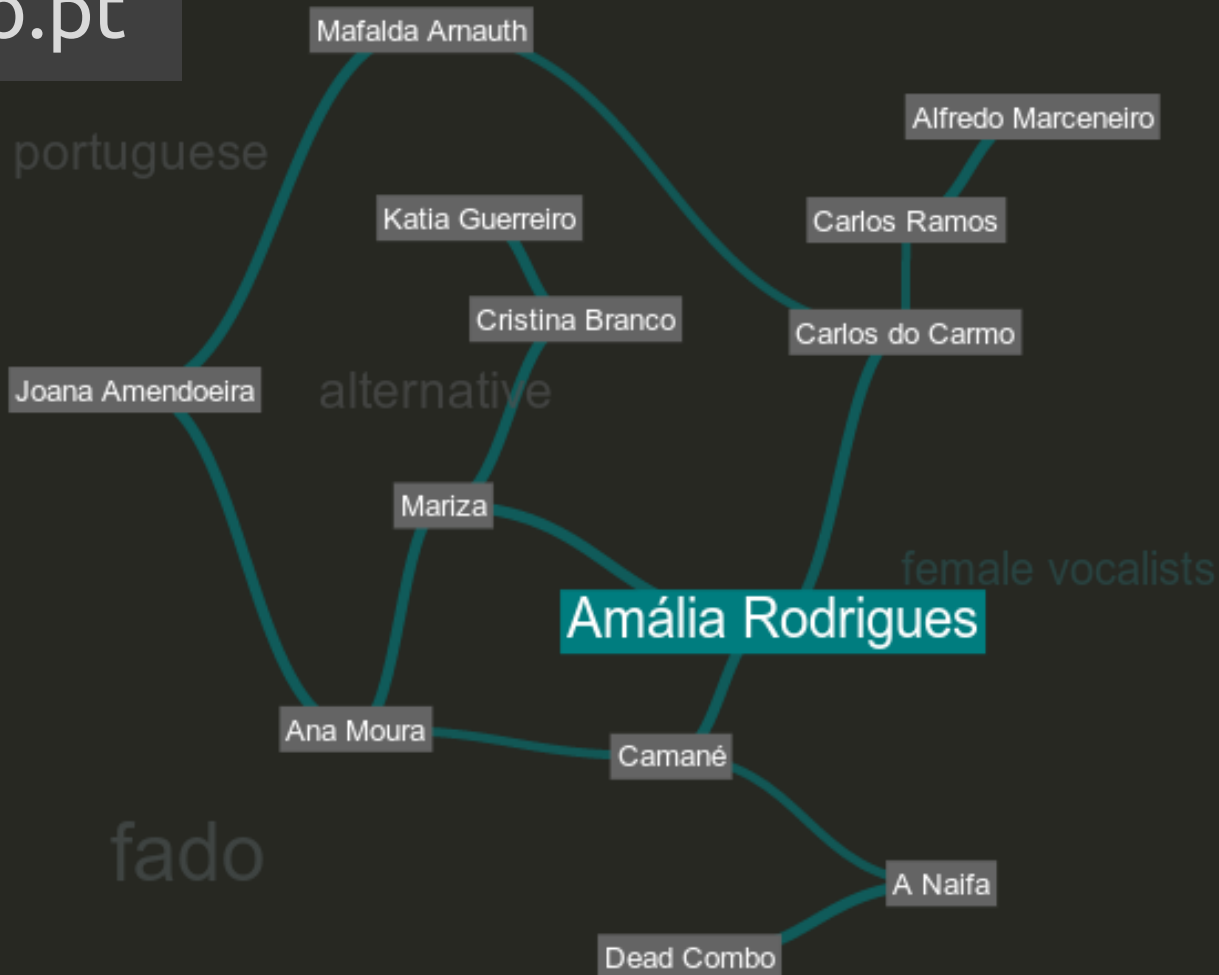
rama.inescporto.pt

artist metadata from

last.fm

music stream from

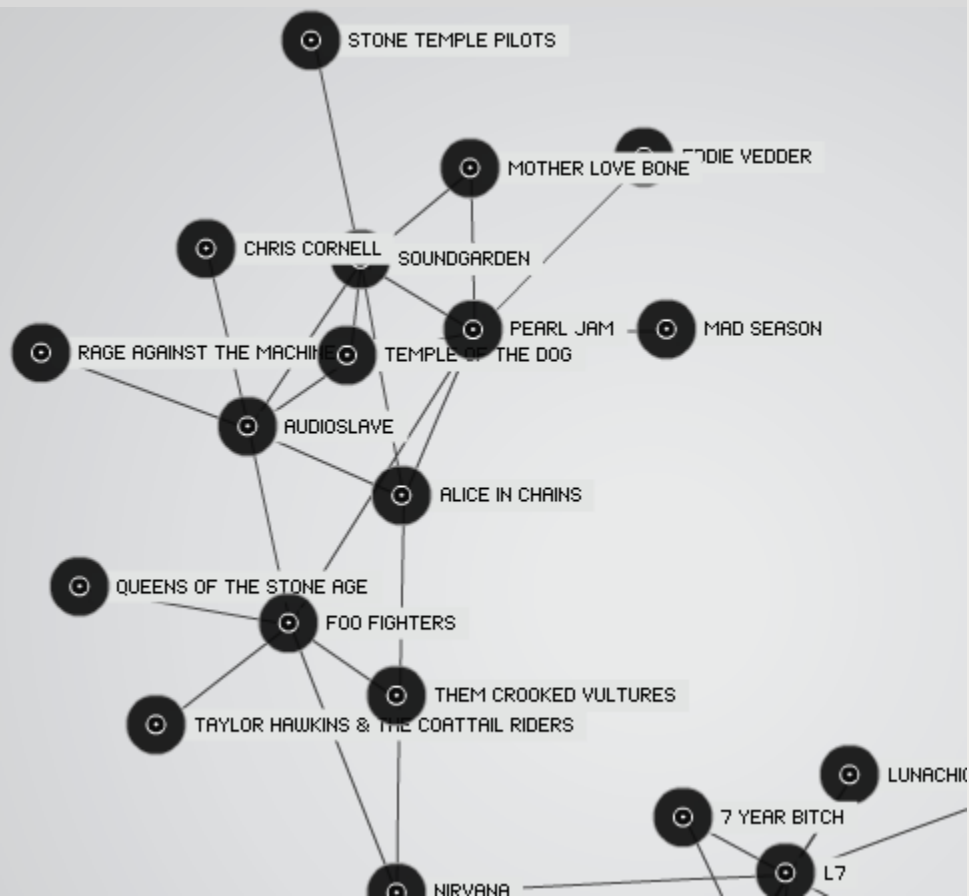
YouTube



RAMA Relational Artist MAPs

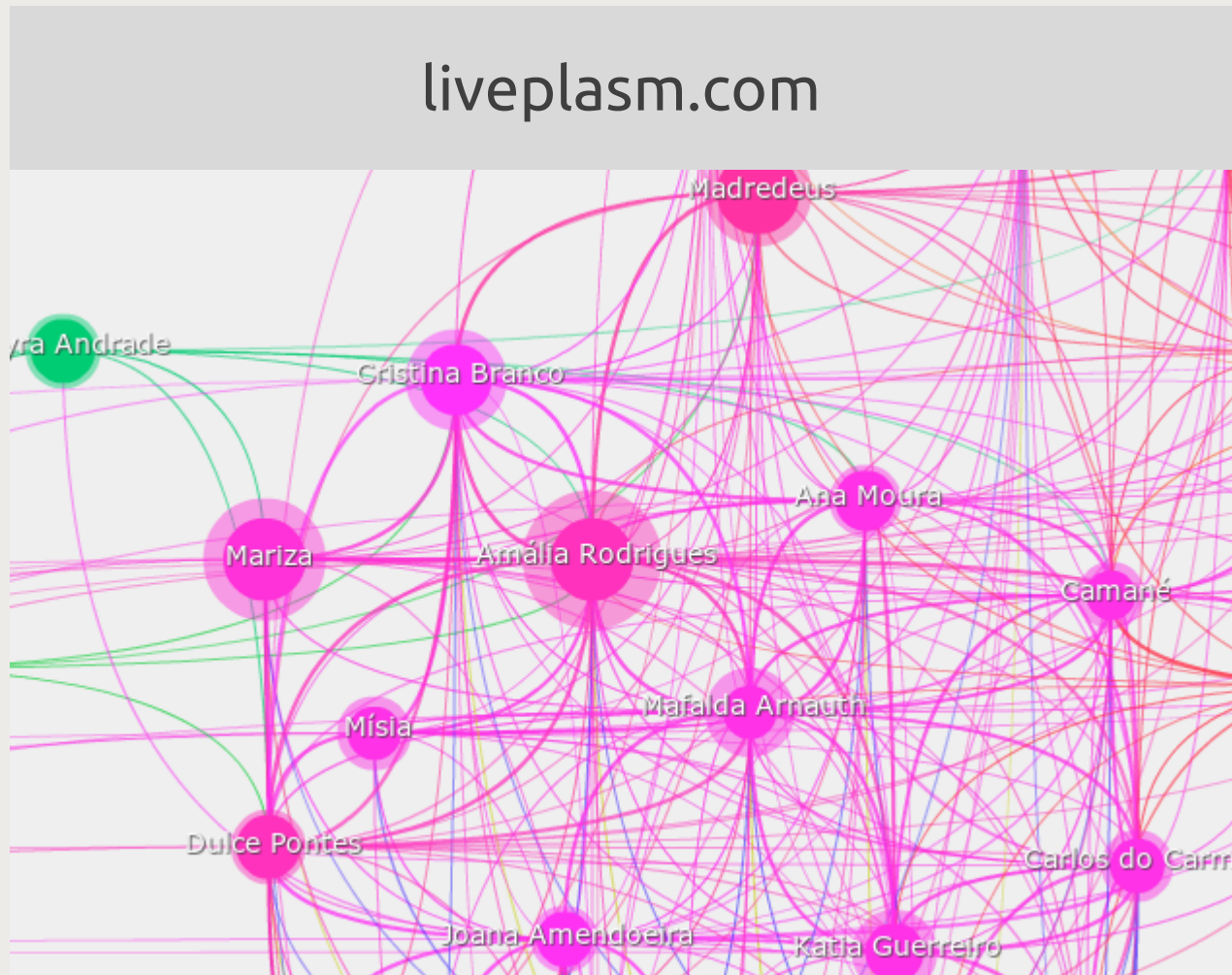
State of the art

audiomap.tunegluue.net



RAMA Relational Artist MAPs

State of the art



RAMA Relational Artist MApps

where it falls short

music stream from



RAMA

Relational Artist MApps

where it falls short

music stream from

Problems?



RAMA Relational Artist MApps

where it falls short

music stream from



Problems?

video's sound quality is not
adequate

RAMA Relational Artist MAs

where it falls short

music stream from



Problems?

video's sound quality is not
adequate

no music related metadata on
Youtube

music stream from



Problems?

video's sound quality is not
adequate

no music related metadata on
Youtube

Youtube is not a music streaming service

Spotify

Spotify

a real music streaming service

Spotify

a real music streaming service

music streaming service

Spotify

a real music streaming service

music streaming service

metadata and digital content managed by Spotify

Spotify

a real music streaming service

music streaming service

metadata and digital content managed by Spotify

just hit play and you're ready to rock

Spotify

a real music streaming service

music streaming service

metadata and digital content managed by Spotify

just hit play and you're ready to rock

Spotify has browse/discovery mode and related artists

Spotify

why spotify?

The screenshot displays the Spotify desktop application interface. On the left is a dark sidebar with navigation options: MAIN (Discover, Follow, Messages, Play Queue, Devices) and APPS (App Finder, Top Lists, Radio, Hype Machine, Last.fm, musiXmatch, Pitchfork, Soundrop, Tastebuds, uDiscover). Below these is a COLLECTION section with Library and Local Files. At the bottom of the sidebar is a music player for 'Natural Blues' by Moby, showing a play button and a progress bar at 1:44.

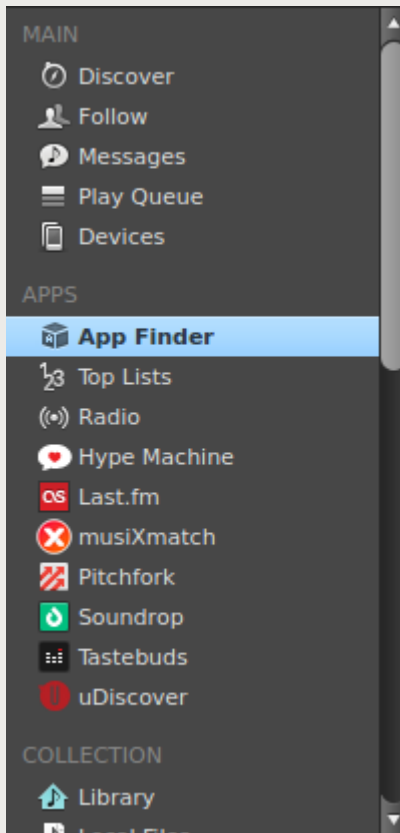
The main content area features a dark header with 'Pitchfork.com' and navigation links for 'All Reviews', 'Best New Albums', and 'Playlists'. The Pitchfork logo is prominently displayed. Below the header, three album reviews are featured:

- Heatsick**
Re-Engineering
6.8
+ Add as Playlist
For his new album *Re-Engineering*, producer and artist Steve Warwick—who records as Heatsick—draws on a wide range of influences, be it his own art...
- Francis and the Lights**
Like a Dream EP
7.0
+ Add as Playlist
Save for production work on Drake's *Thank Me Later* and the occasional performance piece, it's been a quiet couple of years for Francis and the Lights. The...
- bEEdEEgEE**
SUM/ONE
6.8
+ Add as Playlist
Gang Gang Dance multi-tasker Brian DeGraw's debut LP under his bEEdEEgEE moniker features vocals from bandmate Lizzi Bougatsos, Hot Chip's Alexis...

At the bottom of the main area, there are three horizontal image banners: 'BLACK', a landscape with hands, and a black and white photo of a person.

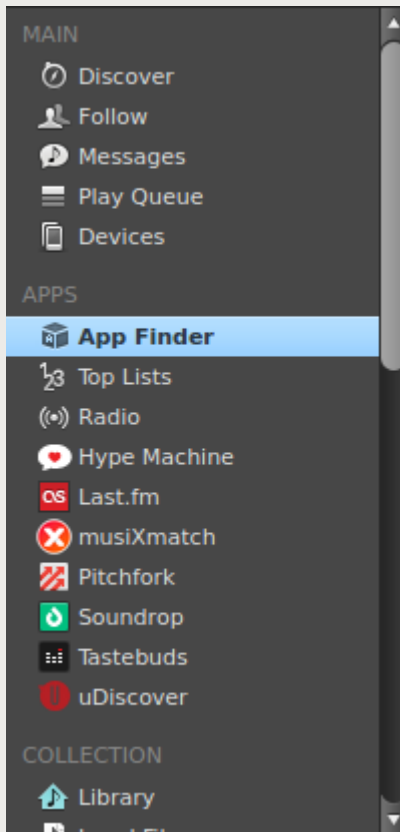
Spotify

why spotify?



Spotify

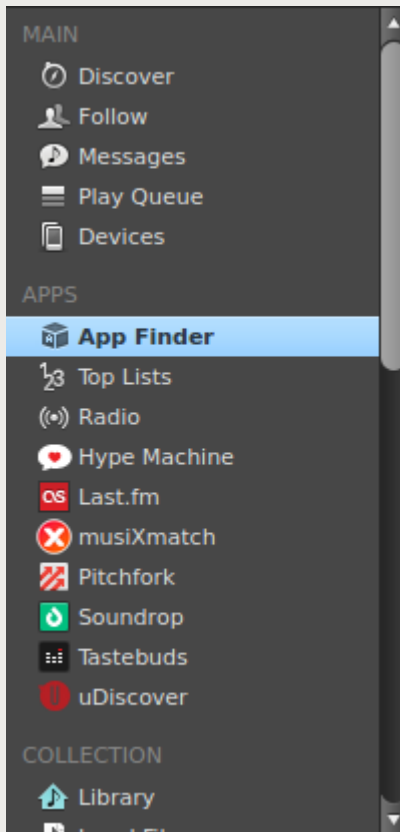
why spotify?



App Finder: built-in app store (all apps are free)

Spotify

why spotify?

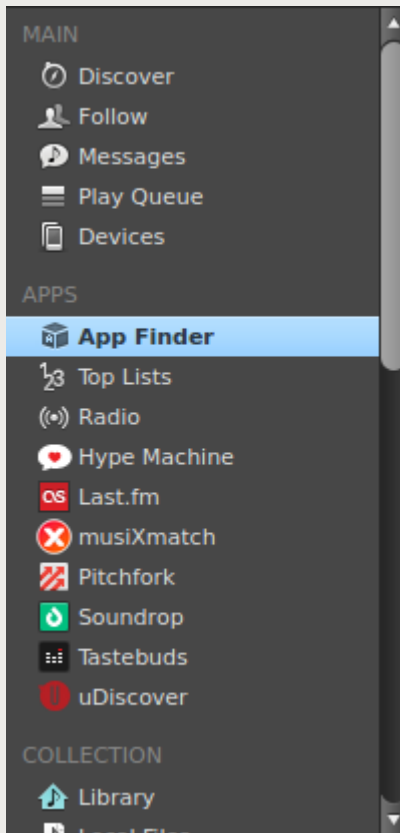


App Finder: built-in app store (all apps are free)

one click to install an app

Spotify

why spotify?



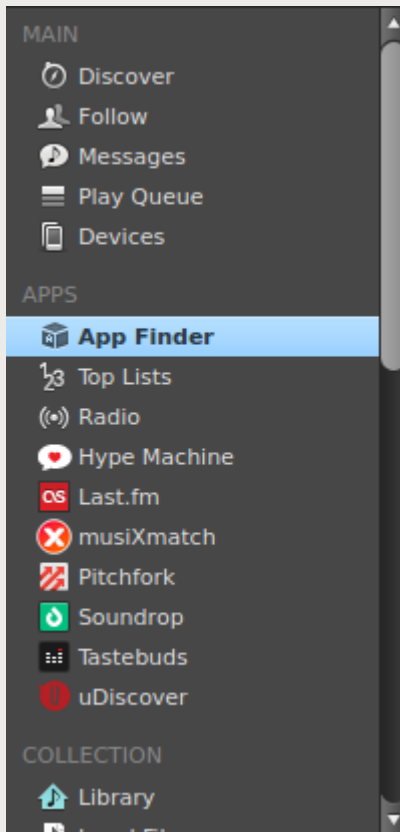
App Finder: built-in app store (all apps are free)

one click to install an app

app runs inside spotify desktop client

Spotify

why spotify?



App Finder: built-in app store (all apps are free)

one click to install an app

app runs inside spotify desktop client

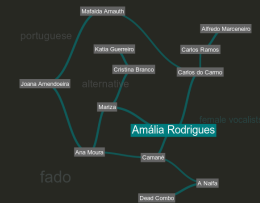
web development (html, css, javascript)

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Solution

Connects Spotify and RAMA



Spotify-ed

Solution

Connects Spotify and RAMA



Through a Spotify App

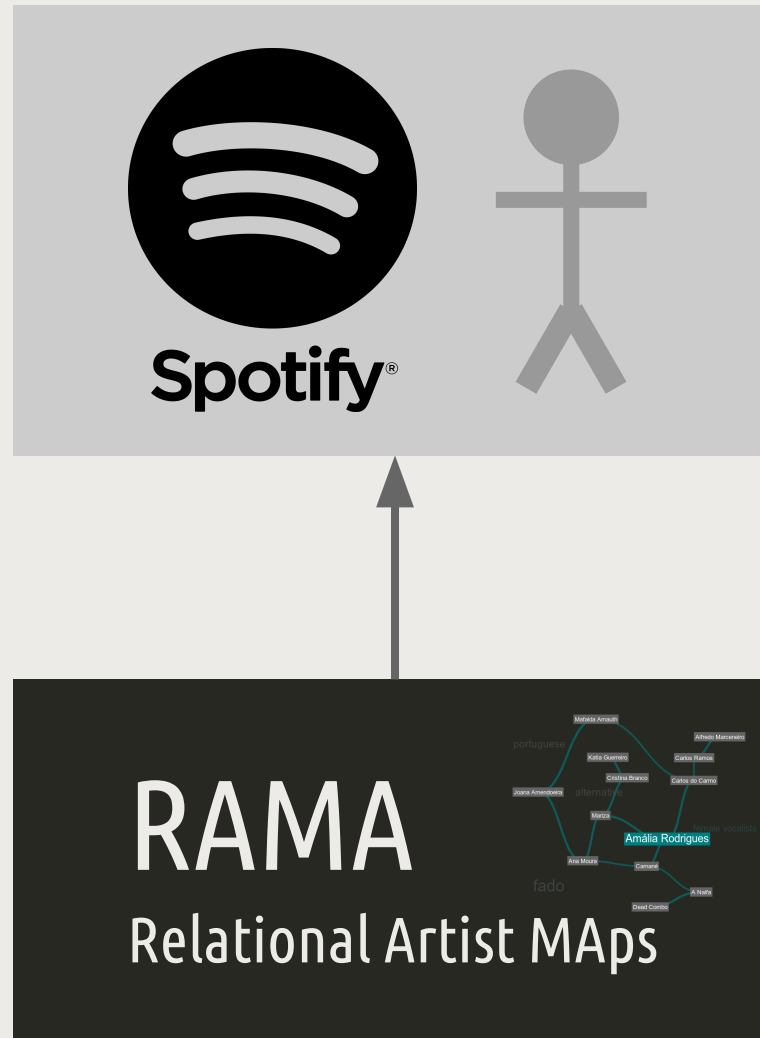
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Validation



Spotify-ed

Validation



Spotify-ed

State of the art

The screenshot displays the Spotify web interface. On the left is a sidebar with a 'MAIN' section containing links to Discover, Follow, Messages, Play Queue, and Devices. Below this is an 'APPS' section with the 'App Finder' highlighted. The App Finder lists various music-related apps like Top Lists, Radio, Hype Machine, Last.fm, musiXmatch, Pitchfork, Soundrop, Tastebuds, and uDiscover. Further down is a 'COLLECTION' section with links to Library, Local Files, Starred, and a '+ New Playlist' button. At the bottom of the sidebar is a music player for 'Natural Blues' by Moby, showing a waveform and playback controls.

The main content area is titled 'Top Apps All Apps' and displays a grid of 14 apps, each with a rating (e.g., 'Lyrics', 'Discovery', 'Reviews', 'Top Charts', 'Social') and an 'Add' button. The apps are:

- 1. musiXmatch** (Lyrics): World's Largest Lyrics Catalog to sing along with friends. (Added)
- 2. TuneWiki** (Lyrics): Get synced lyrics and sing along to your favorite songs! (Add)
- 3. Tunigo** (Discovery): Find playlists for all occasions and discover great music. (Add)
- 4. Last.fm** (Discovery): Personalised recommendations based on the music you play. (Added)
- 5. Pitchfork** (Reviews): The Essential Guide to Independent Music & Beyond. (Added)
- 6. Billboard Top Charts** (Top Charts): Billboard Top Charts highlights songs from the popular weekly charts. (Add)
- 7. Lazify** (Discovery): Tired of creating playlists? Lazify, the app for the lazy. (Add)
- 8. Soundrop** (Social): Discover music and chat with people from around the world. (Added)
- 9. Playlists.net** (Discovery): Over 145,000 quality playlists, charts, reviews & more. (Add)
- 10. Any Decent Music?** (Reviews): The ADM chart: the most critically acclaimed new albums. (Add)
- 11. NME** (Reviews): The best new music, recommended for you. (Add)
- 12. Rolling Stone Recommends** (Reviews): Hear the best albums, songs and playlists, by RS editors. (Add)
- 13. Top10** (Reviews): (Add)
- 14. Twitter #Music** (Reviews): (Add)

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Work Plan

Oct

Nov

Dec

Jan

Feb

Mar

Apr

May

Jun

Spotify-ed

Work Plan

Oct

Nov

Dec

Jan

Feb

Mar

Apr

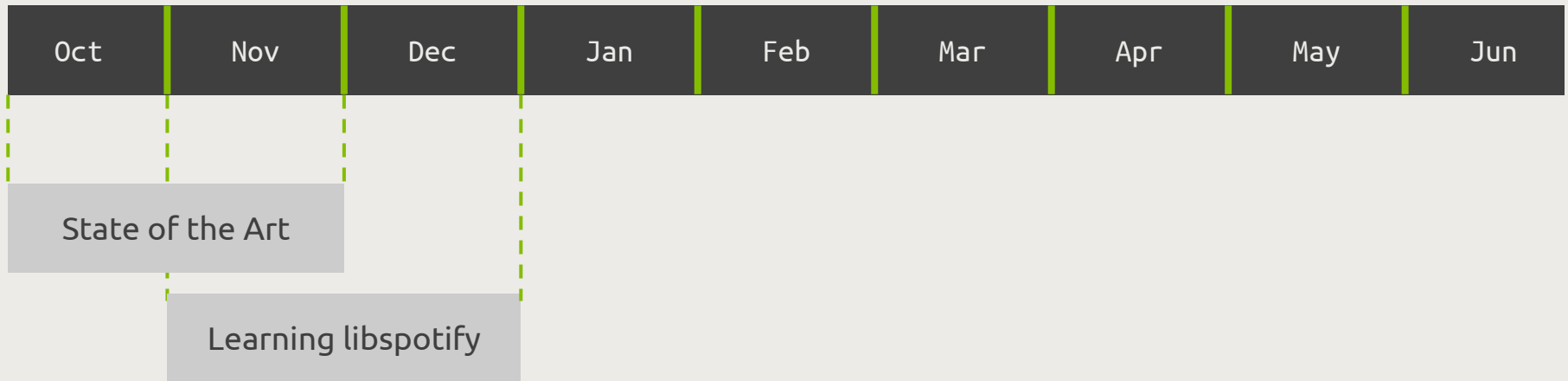
May

Jun

State of the Art

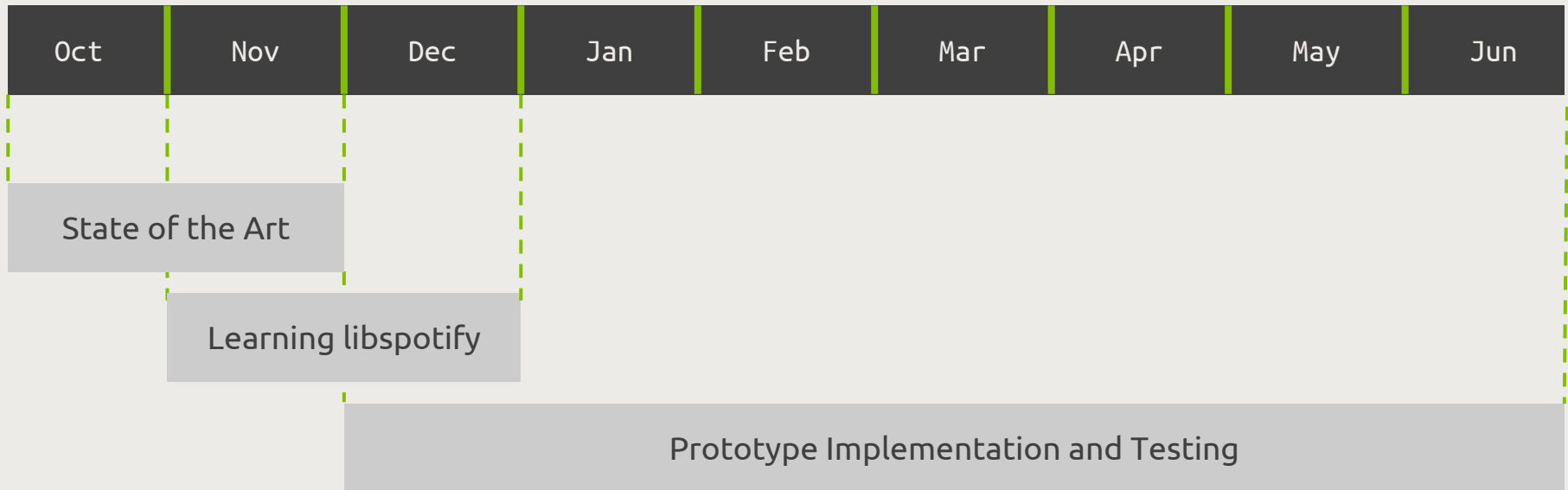
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Work Plan



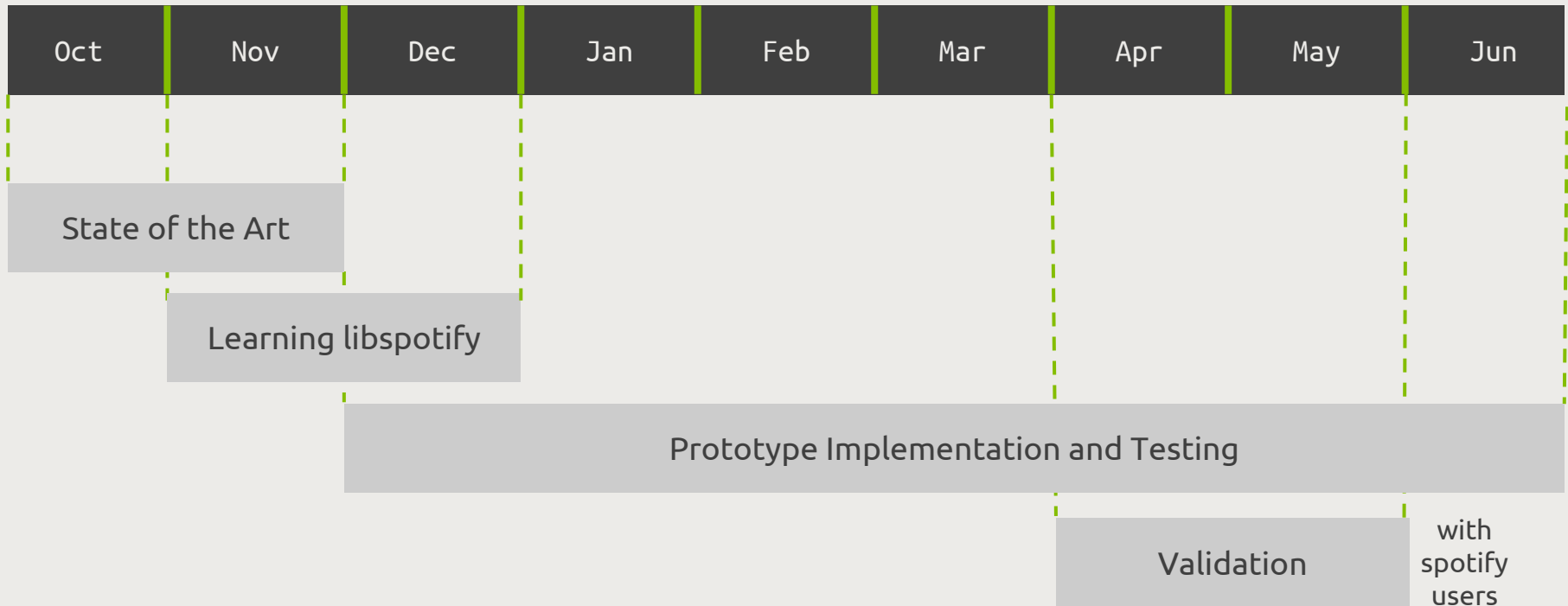
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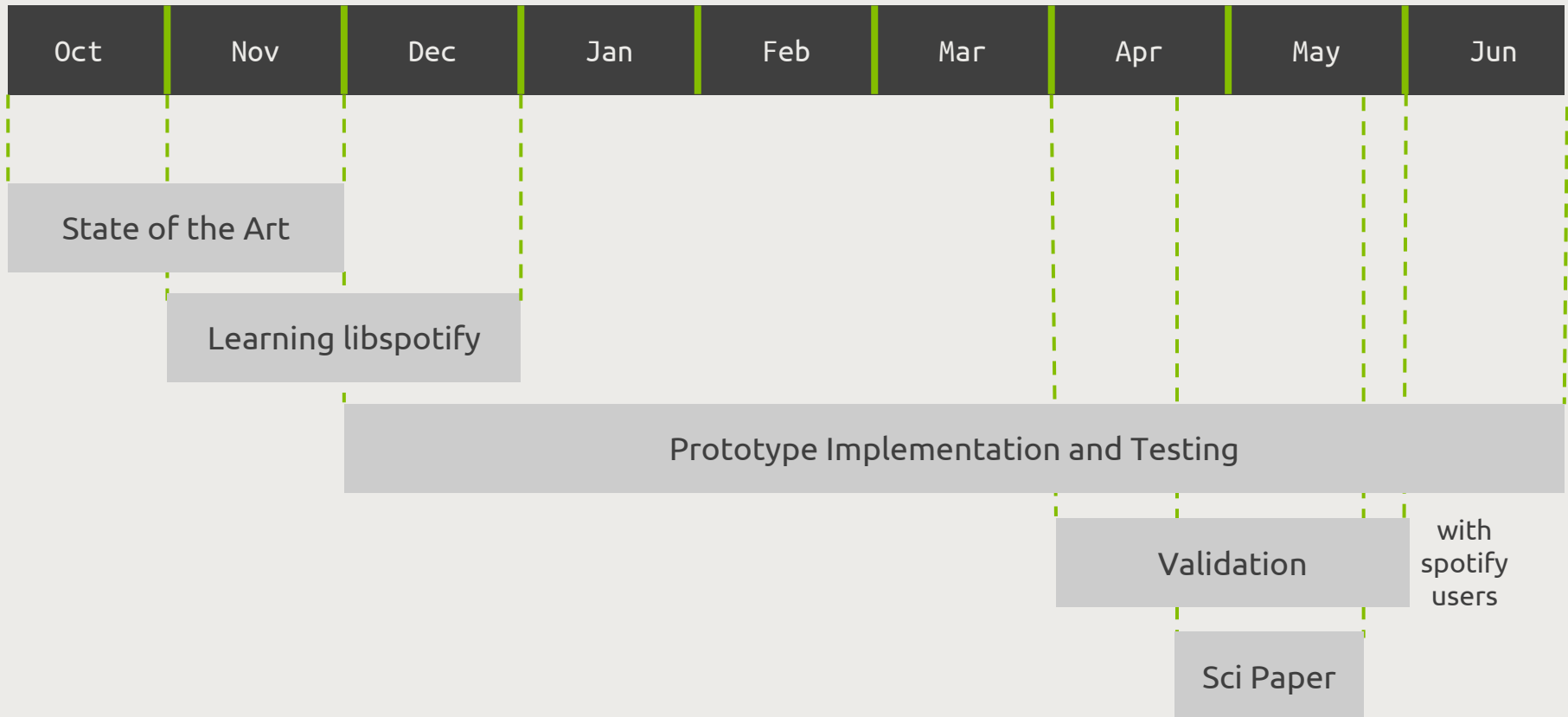
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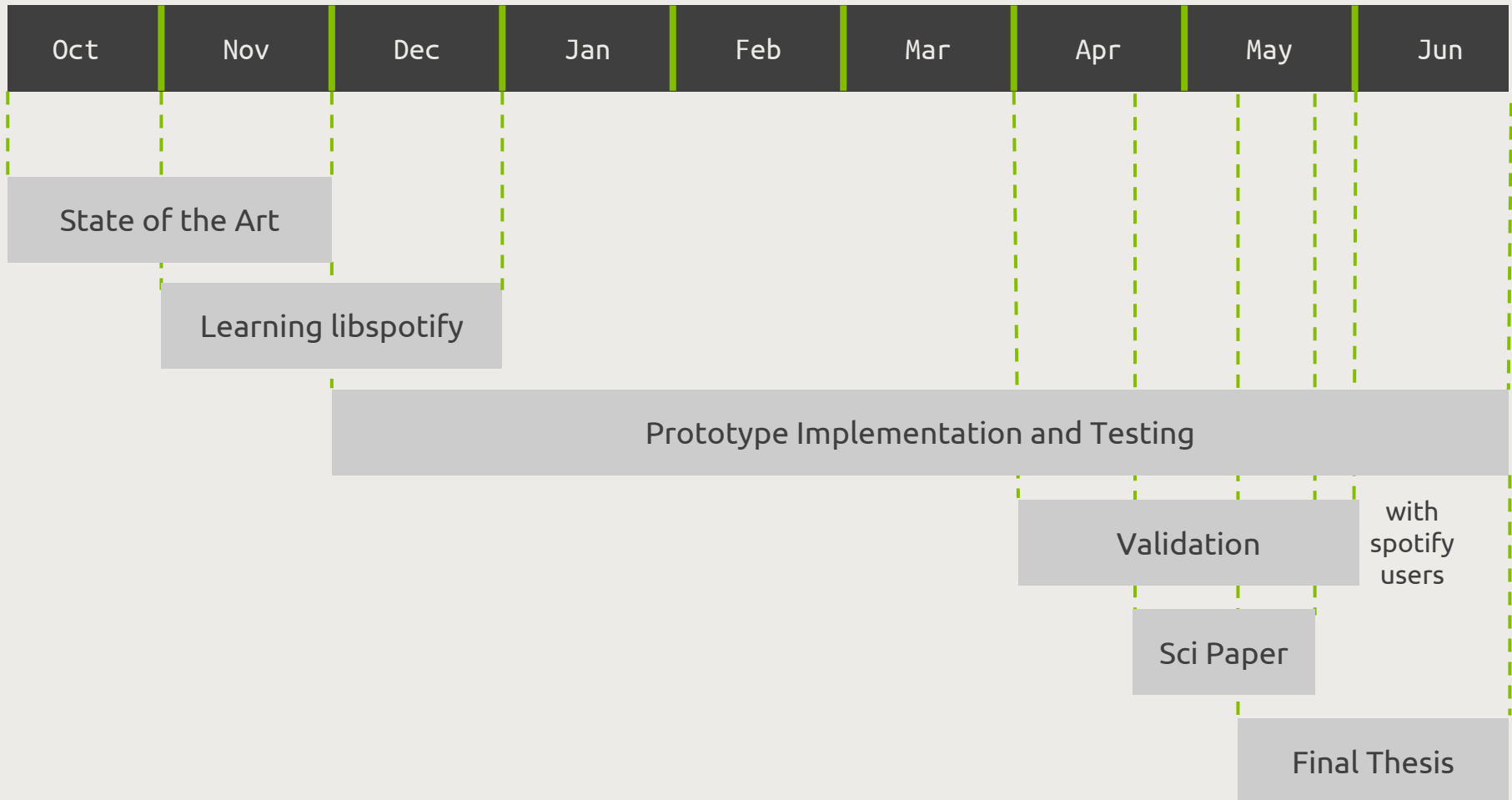
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