SPOTIFY CHARACTERIZATION AS A SOFTWARE ECOSYSTEM

This briefing reports scientific evidence on Spotify being a software ecosystem, taking in consideration state-of-the-art definitions and concepts.

FINDINGS

- Our analysis is based on recent researches on software ecosystems, to define traits we needed to seek in Spotify in order to evaluate it as a ecosystem**.**
- We find that Spotify is a monarchic, privately owned and privately coordinated plataform
- In our analysis, Spotify still figures as an ad hoc ecosystem engagement. It already takes responsibilities as a platform and ecosystem keystone by facing the challenges discussed above.
- Presented aspects show that there are more than monetary contributions, but it still lacks ecosystem governance tactics to increase fidelity and nourish long term relationships.
- To better understand the interactions and relationships between niche players and the platform, KnowYourBeat was developed. It helps user to understand his musical taste and find songs he may like.
- Through KnowYourBeat Development we find that it is possible to explore a niche entering on Spotify's ecosystem.
- We find through a case study that our application have a value proposition that was reached by extending Spotify native recommendation system.
- We draw suggestions about how can Spotify increase its ecosystem maturity, through our finds on seeking to explore a niche on the ecosystem.
- We suggest that the addition of a extension market (like Google Play or Apple Store) could increase the ecosystem's attractiveness.
- We suggest that leveraging the API maturity by implementing the HATEOAS standard could nourish higher levels of interoperability between the ecosystem's components.
- We also suggest that Spotify could leverage its value proposition and its market share and presence by creating a technical standard for APIs on audio streaming industry, allowing applications to share data and features among other big players such as Tidal and Apple Music

Who is this briefing for?

Software engineering practitioners who want evaluate Software Ecosystems and understand how they different traits are related to each other in the real world.

Where the findings come from?

All findings of this briefing were extracted from the literature and direct observations conducted by Vinícuis Schettino, Regina Braga, José Maria David and Marco Araújo.

What is included in this briefing?

Our main findings and condensed information about the original work

What is not included in this briefing?

Methods, case study

To access other evidence briefings on software engineering: http://www.lia.ufc.br/~cbsoft2017/programacao-sbcars/

For additional information about NeNC: http://www.ufjf.br/nenc/

Schettino, Vinicius J., et al. "Spotify characterization as a software ecosystem." Proceedings of the 11th Brazilian Symposium on Software Components, Architectures, and Reuse. ACM, 2017.