



# AppStream/DEP-11 for Debian Archive

A Google Summer of Code Project

Abhishek Bhattacharjee

<https://github.com/abhi11>



debian

## Topics

- What is AppStream ?
- What is DEP-11
- What is DAK ?
- Why different draft for Debian ?
- How will it improve Debian's usability ?
- Implementation



debian

## AppStream

- Specifies metadata
- Provides libraries
- Cross-distribution



## Debian Enhancement Proposal – 11 (DEP-11)

- Proposal to store the AppStream metadata
- Metadata is stored in YAML format
- [https://wiki.debian.org/DEP-11#Example\\_of\\_Components.yml](https://wiki.debian.org/DEP-11#Example_of_Components.yml)



## Debian Archive Kit (DAK)

- Manages Debian Archive
- Used for maintaining large no. of packages.
- > 20, 000 packages
- Python, PostgreSQL



debian

## Improvement in usability

- Easier installation of packages.
- Intelligent software centers.



debian

## Implementation

- Python
- PostgreSQL
- Parsing xml containing appstream metadata
- Parsing .desktop files



debian

## Now the Data...

- Components.yml
- Icons
- Screenshots





debian

## How to generate the data

- All you need is:

```
>> dak generate-metadata -s <suitename> [OPTION]
```

-e or --expire-cache could be used for clearing stale cache.



debian

Questions

?



debian

Thank you 😊