



AppStream

Description for all distros

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Today's Topics

1. About AppStream
2. Upstream metadata
3. Examples
4. Status in Fedora 21
5. Useful links



About AppStream

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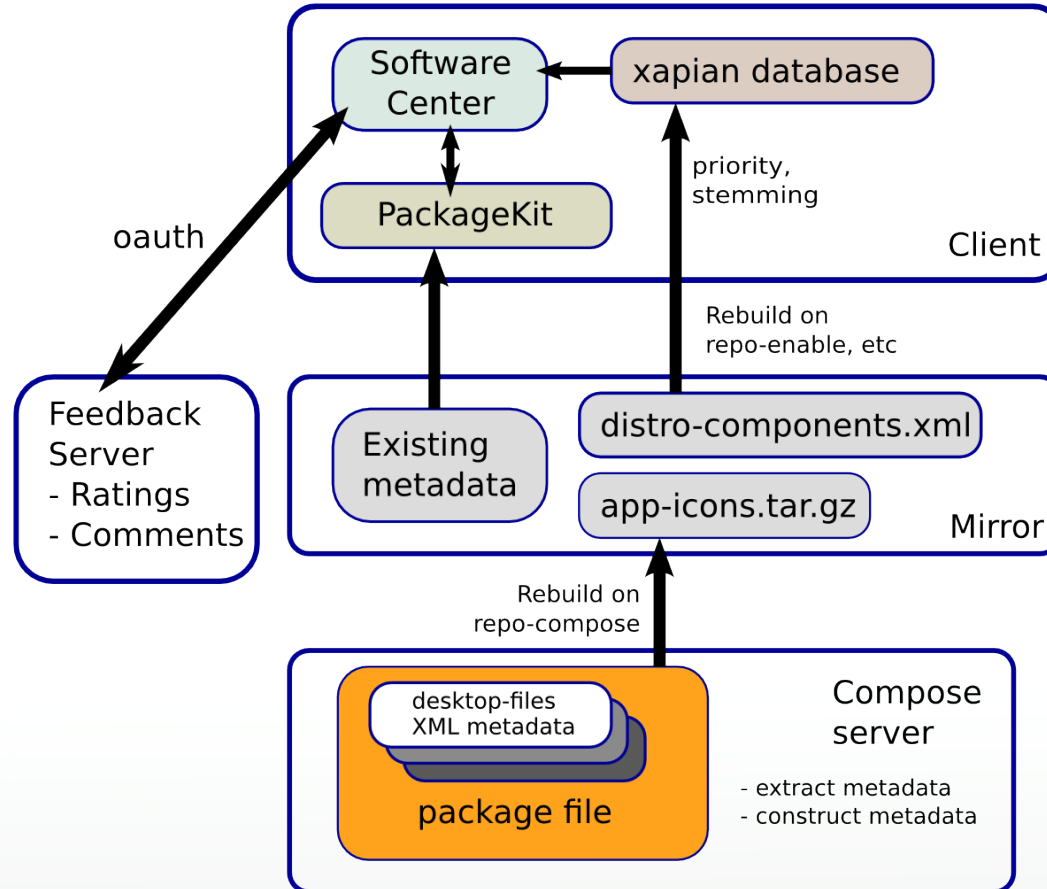


What is AppStream?

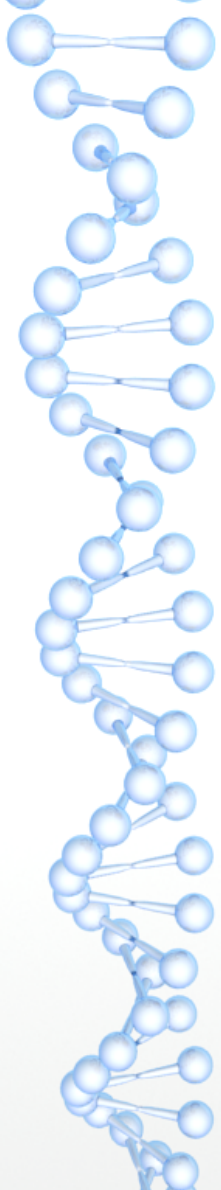
- Cross-distro effort for building Software-Center applications and enhancing metadata provided by software components
- Specifications for meta-information which is shipped by upstream projects and can be consumed by other software
- Specifications for things like:
 - Screenshot-service
 - Application ratings & reviews
 - Etc.
- **All parts of AppStream are distro-agnostic**

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Architecture



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Upstream metadata

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Desktop Application

- /usr/share/appdata/%{id}.appdata.xml
- Small XML file which includes:
 - <component type="desktop">
 - Name
 - Screenshots URLs
 - Long & short descriptions (multi-language if possible)
 - Homepage URL
 - Bugzilla URL
 - Other things



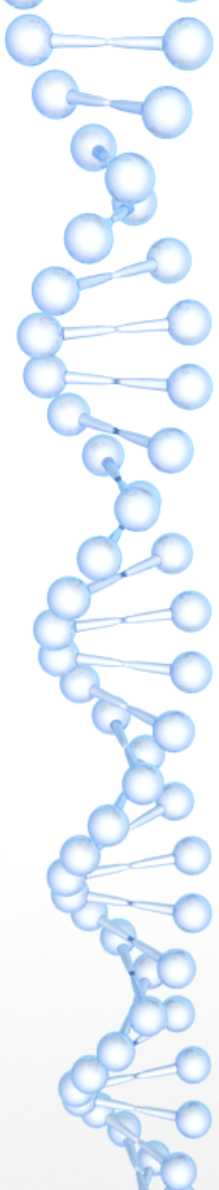
Addon

- /usr/share/appdata/{id}.metainfo.xml
- Small XML file which includes:
 - <component type="addon">
 - Name
 - Long & short descriptions (multi-language if possible)
 - Homepage URL
 - Bugzilla URL
 - <extends>{id}.desktop</extends>
 - Other things



Font

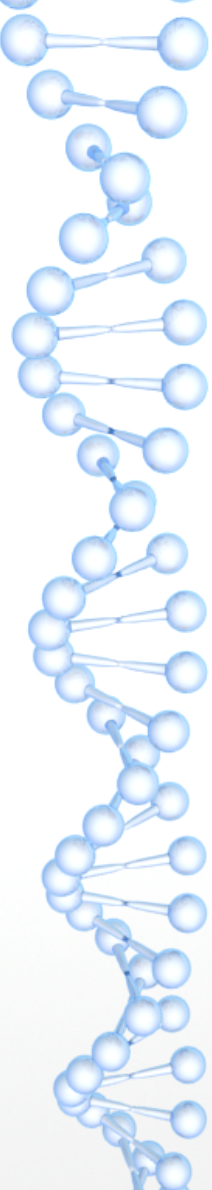
- /usr/share/appdata/{id}.metainfo.xml
- Small XML file which includes:
 - <component type="font">
 - Name
 - Long & short description (multi-language if possible)
 - Homepage URL
 - Bugzilla URL
 - Other things



Examples

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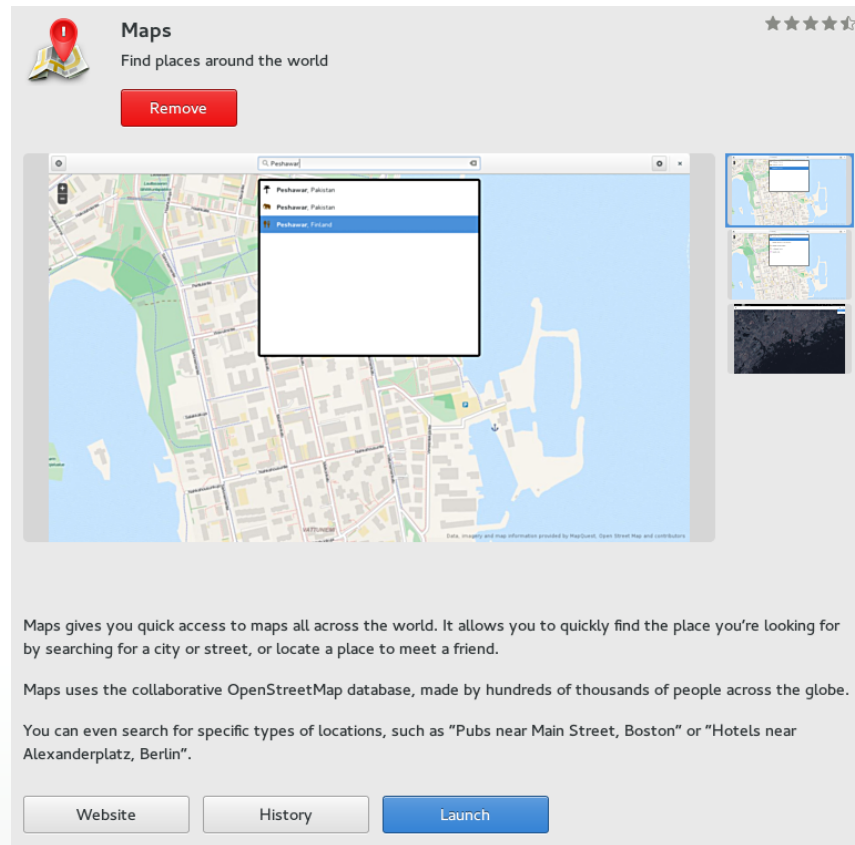
GUI Application



```
01 <?xml version="1.0" encoding="UTF-8"?>
02 <application>
03   <id type="desktop">org.gnome.Maps.desktop</id>
04   <licence>CC0</licence>
05   <summary>Find places around the world</summary>
06   <description>
07     <p>Maps gives you quick access to maps all across the world.</p>
08   </description>
09   <screenshots>
10     <screenshot type="default">http://people.gnome.org/~zeeshanak/screenshots/gnome-
maps-search-peshawar.png</screenshot>
11     <screenshot>http://people.gnome.org/~zeeshanak/screenshots/gnome-maps-search-
karachi.png</screenshot>
12   </screenshots>
13   <url type="homepage">http://wiki.gnome.org/Apps/Maps</url>
14   <updatecontact>gnome-maps-list@gnome.org</updatecontact>
15 </application>
```

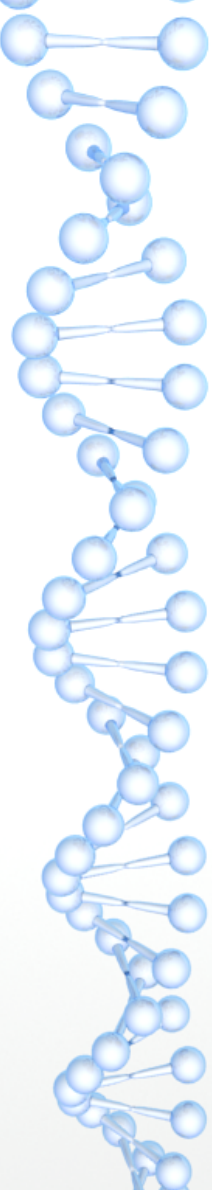
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GUI Application



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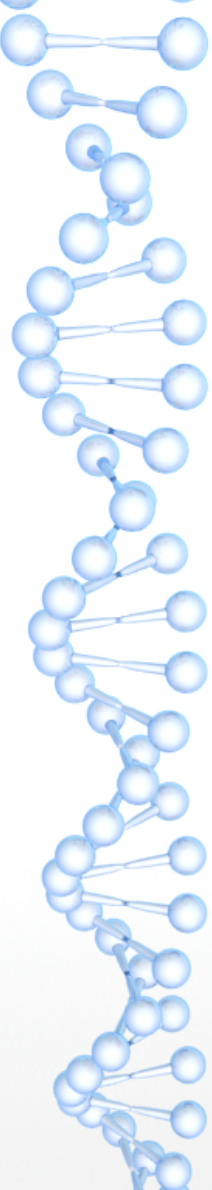
Addon



```
01 <?xml version="1.0" encoding="UTF-8"?>
02 <component type="addon">
03   <id>gedit-bookmarks</id>
04   <extends>gedit.desktop</extends>
05   <name>Bookmarks</name>
06   <summary>Easy document navigation with bookmarks</summary>
07   <url type="homepage">https://wiki.gnome.org/Apps/Gedit/ShippedPlugins</url>
08   <url type="bugtracker">https://bugzilla.gnome.org/enter_bug.cgi?
product=gedit&component=Plugins</url>
09   <metadata_license>CC0-1.0</metadata_license>
10   <project_license>GPL-2.0+</project_license>
11 </component>
```

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Addons



Add-ons	
<input type="checkbox"/> Bookmarks Easy document navigation with bookmarks	
<input checked="" type="checkbox"/> Bracket Completion Automatically add a closing bracket when you insert one	Installed
<input type="checkbox"/> Charmap Select characters from a character map	
<input checked="" type="checkbox"/> Code Comment Comment or uncomment blocks of code	Installing

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Checking metadata

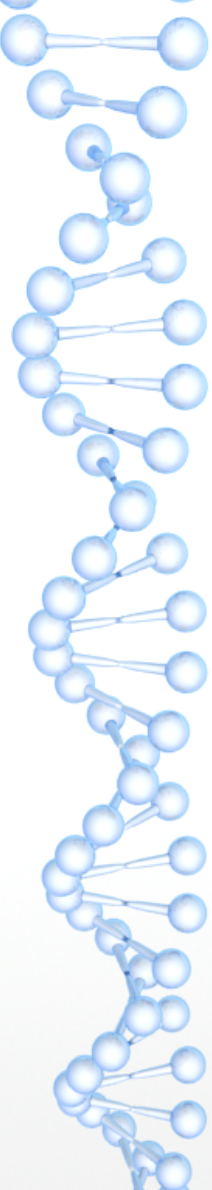
```
# dnf install libappstream-glib
$ appstream-util validate devassistant.appdata.xml
devassistant.appdata.xml: OK
```



Building metadata

```
# dnf install libappstream-glib-builder
$ appstream-builder --verbose \
  --max-threads=8 \
  --log-dir=/tmp/logs \
  --packages-dir=/mnt/russianfedora-free/21/Packages \
  --temp-dir=/mnt/AppStream/tmp \
  --output-dir=./reodata \
  --screenshot-url=http://mirror.yandex.ru/screenshots/ \
  --basename="russianfedora-free-21"
```


Status in Fedora 21



Descriptions	474/1033
Keywords	125/1033
Screenshots	400/1033
GNOME AppData	108/113
KDE AppData	51/90
XFCE AppData	5/16
Metainfo	60

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Useful links

- <http://www.freedesktop.org/software/appstream/docs/>
- <https://github.com/hughsie/appstream-glib>
- <https://git.gnome.org/>
- [/usr/share/appdata/](#)
- <http://alt.fedoraproject.org/pub/alt/screenshots/f21/status.html>



Questions?



GNOMETM

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