

**One app = one file,  
no installation:  
this is AppImage**

2020



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2020

# Agenda

- What is AppImage
- How to use an AppImage
- How LibreOffice makes AppImages
- How AppImages are beneficial to LibreOffice
- Outlook: What's next for LibreOffice AppImages
- **One more thing:  
World premiere today**

# What is AppImage

- One app = one file
- Cross-distro
- No installation
- Can backup anywhere
- Can run from anywhere
- Can store many versions in parallel
- Can run many versions in parallel

# User Story



"As a user, I want to download an application from the original author, and run it on my Linux desktop system just like I would do with a Windows or Mac application."

# Developer Story



"As an application author, I want to provide packages for Linux desktop systems, without much hassle. Also for continuous builds!"

# An AppImage is a self-mounting filesystem image

Binary, mounts image with FUSE and runs the app inside

AppImage

**EXECUTABLE**

**SQUASHFS  
IMAGE**

Read-only image containing the app's binaries, data, basically everything that is needed except for the very low level system libraries

# Upstream packaging

No gatekeepers, between authors and users.

```
graph TD; User[Application user] --- Author[Application author];
```

Application user

Application author



# How to use an AppImage

- Download
- Make executable
- Run
- **Live Demo**
- Optional appimaged daemon and other desktop integrations

# How to build a LO AppImage

- Fully automated workflow
- Large build matrix
- New and old versions
- **Live Demo**

# How AppImages are beneficial to LibreOffice

- # of downloads so far?
- Testing new features
- QC
- Distro-hoppers
- Archive particular version of LibreOffice alongside important documents

[Download](#) / LibreOffice as Appliance

## LibreOffice as Appliance

**Appliance** is a portable application format for Linux that allows users to run applications on rolling (e.g. Arch, openSUSE Tumbleweed) and stable (e.g. Ubuntu LTS, CentOS) Linux distributions very easily, without the need for installation or worry of dependencies. Appliances bundle all the files needed for an application to run (e.g. libraries, translations, icons, fonts) that may not already be present on a user's system.

LibreOffice Appliance is a portable version of LibreOffice for Linux that can be run from any location (e.g. local drive, USB, CD, network share) on all popular Linux distributions, including their live CDs. LibreOffice Appliance is available in three versions - Basic, Standard, and Full - which support a different set of languages.

The **Basic** version includes support for the default language, English (US).

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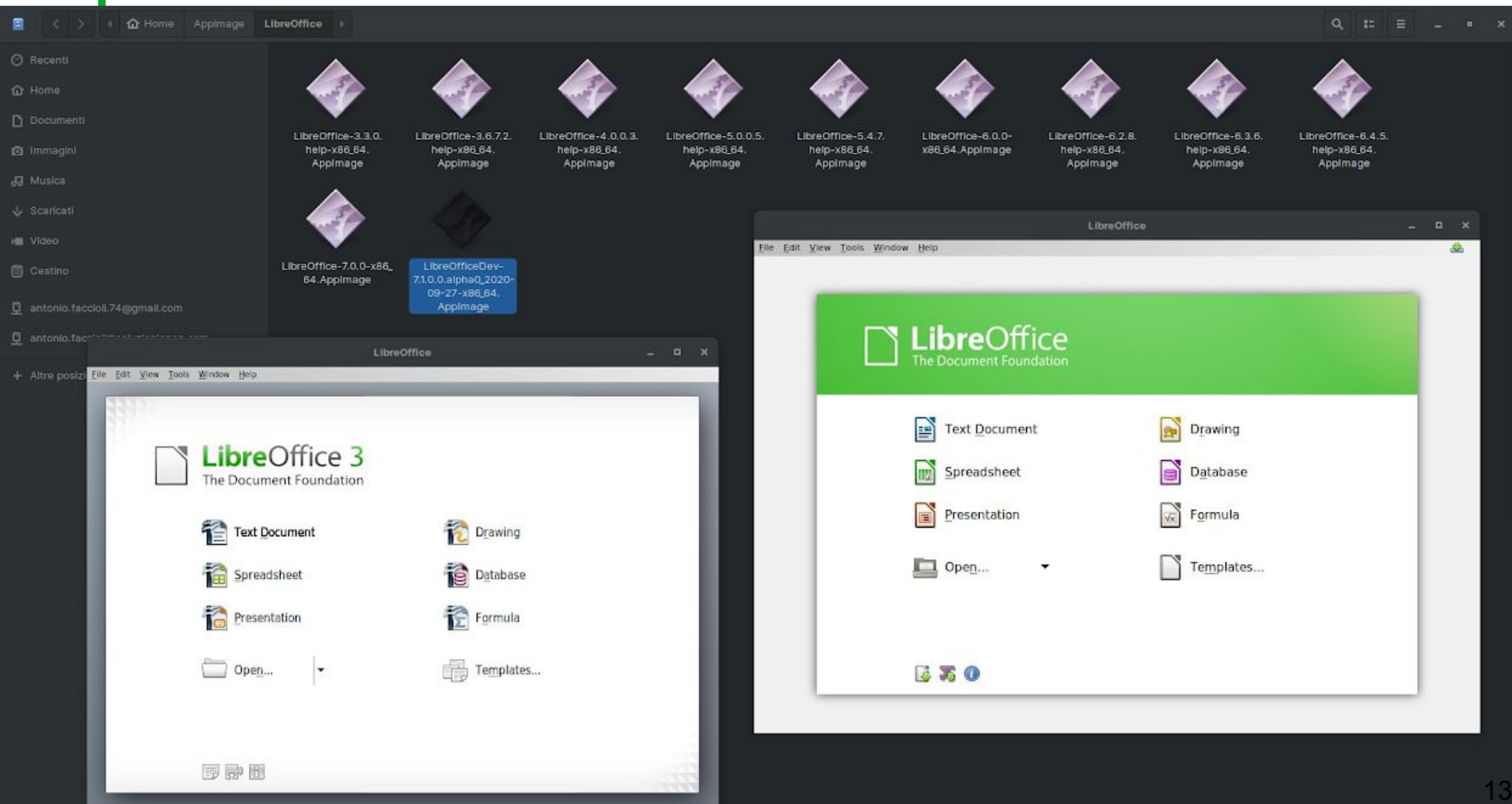
The **Standard** version includes support for English (US and GB), Arabic, Chinese (Simplified and Traditional), French, German, Italian, Japanese, Korean, Portuguese (Brazilian and Portugal), Russian, and Spanish.

[Download Fresh](#)[Download Still](#)

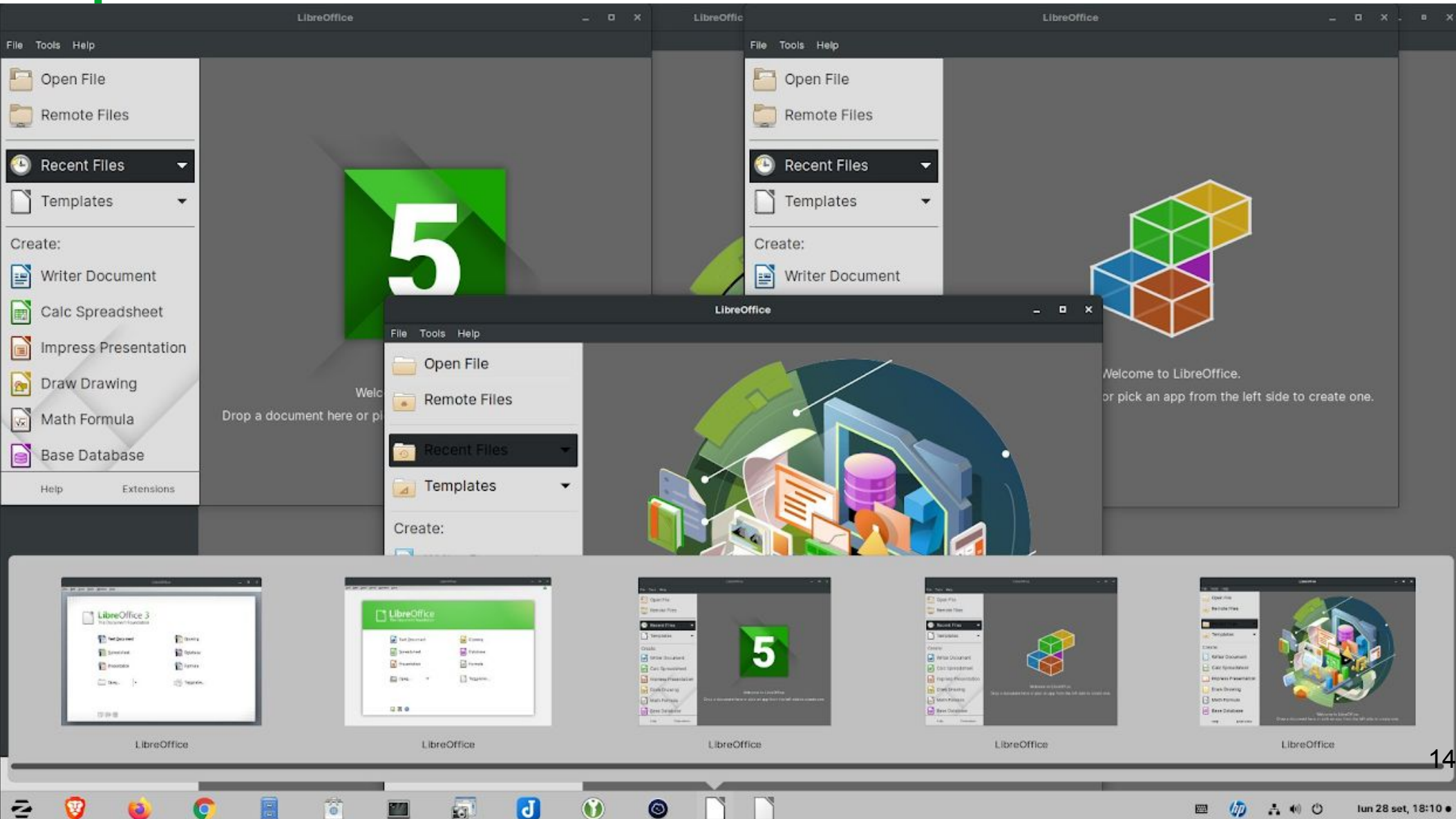
The **Full** version includes all languages supported by LibreOffice.

[Download Fresh](#)[Download Still](#)

# Past, present and future just a click away



# Past, present and future just a click away



# Outlook

What's next for LibreOffice AppImages

- Delta updates?
- Built-in updater?

# One more thing

World premiere today



# One more thing

World premiere today

The screenshot displays a Linux desktop environment with the following components:

- System Menu:** System, Datei, Aktionen, Bearbeiten, Ansicht, Hilfe. Time: 16.10.20 17:58.
- Terminal (Shell Nr. 1):**

```
user@FreeBSD$ uname -a
FreeBSD FreeBSD 12.1-RELEASE-p8 FreeBSD 12.1-RELEASE-p8 GENERIC amd64
user@FreeBSD$
```
- File Manager (LibreOffice):** Shows the directory `/home/user/Downloads/LibreOffice` containing files like `LibreOffice_3.3.0`, `LibreOfficeDev_7.1`, and `LibreOffice_7.0.1`. Free space: 55,0 GiB (Gesamt: 68,2 GiB).
- LibreOfficeDev Application:** Shows the "About LibreOfficeDev" dialog with version information:

```
Version: 7.1.0.alpha0+
Build: e93cd44e2416c81ccc4b90fd9...
Environment: CPU threads: 2; OS: Linux 5.0
User Interface: UI render: default; VCL: x11
Locale: de-DE (de_DE.UTF-8); UI: en-US
Misc: TinderBox: Linux-rpm_deb-x86_64@86-TDF, Branch: master, Time: 2020-10-13_08:39:46
Calc: threaded
```
- LibreOffice 3.3.0 Application:** Shows the main LibreOffice 3.3.0 interface with options for Text Document, Spreadsheet, and Presentation. It also includes an "About LibreOffice" dialog showing version details:

```
LibreOffice 3.3.0
000330m19 (Build:6)
tag libreoffice-3.3.0.4

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This product was created by The Document Foundation, based on
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affiliates.
The Document Foundation acknowledges all community members,
please find more info at the link below:

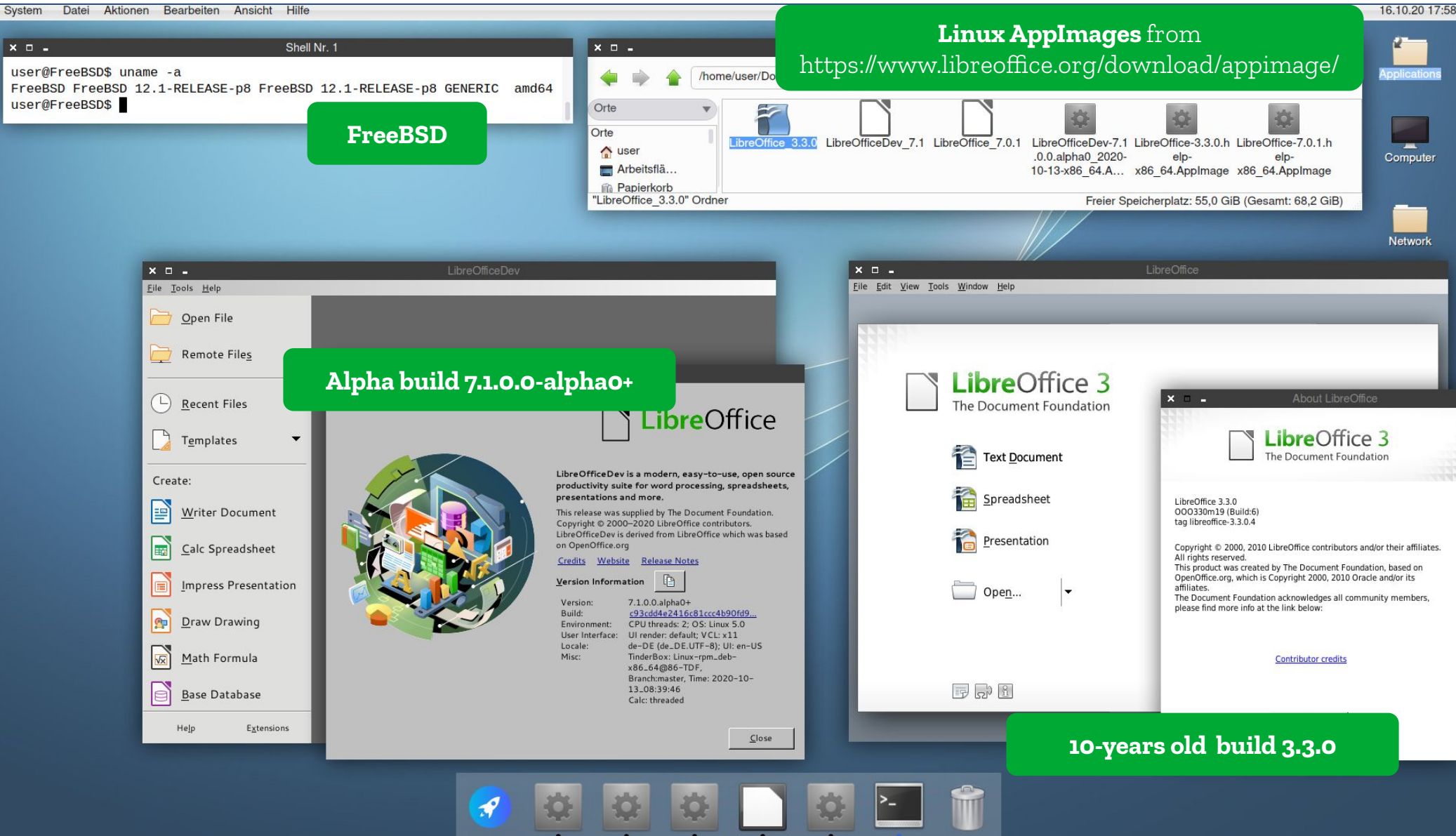
Contributor credits
```
- Taskbar:** Contains icons for the Dash, System Settings, LibreOfficeDev, LibreOffice 3.3.0, Terminal, and Trash.

# One more thing

World premiere today

Linux AppImages from  
<https://www.libreoffice.org/download/appimage/>

FreeBSD



Alpha build 7.1.0.0-alpha0+

10-years old build 3.3.0

2020

**#AppImage** on  
[irc.freenode.net](https://irc.freenode.net)

# Thank You



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Your Text Here

# Abstract

One app = one file, no installation: this is AppImage.

LibreOffice has been shipped in the AppImage format for years now. In this talk, AppImage founder Simon Peter will give a brief introduction into how AppImage works, how to use it, and what its benefits are.

LibreOffice contributor Antonio Faccioli will then demonstrate how the LibreOffice project builds AppImages for various past, present and future versions, and will discuss how AppImages can be beneficial to LibreOffice.

Together, we will brainstorm about what the future may bring. And we are interested to hear from you would you would like to see come next.