

Poppler

The PDF rendering library

Who is this?

Albert Astals Cid

KDE Developer since 2003

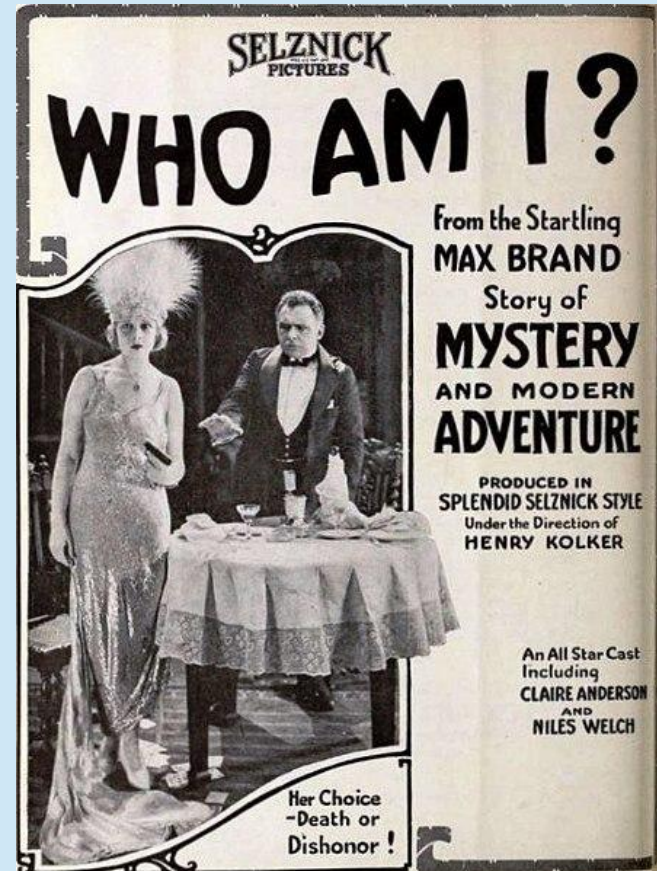
KPDF/Okular

A little bit of everything :)

Poppler developer since 2005

Maintainer since 2008

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What is Poppler?

- A PDF rendering library written in C++
- An Xpdf fork
- Free Software (GPL v2 + v3)
- A project hosted in freedesktop
- A weird name ;)



What Poppler is NOT?

- A PDF editing library
- A complete implementation of the PDF specification



Why fork?

- Xpdf development is not open
- Xpdf doesn't provide a library you can link to
- PDF is hard → regular security problems, better to use a library than to copy the source code everywhere
- Xpdf is developed on purpose to not use many dependencies



Who uses poppler?

- More than 75 packages depend on poppler
 - Okular
 - Evince/Papers
 - frescobaldi
 - Inkscape
 - Cups/Sane
 - Libreoffice
 - Calibre
 - Gimp
 - ...

How to use the library?

- Public interfaces
 - `cpp/glib/qt5/qt6`
 - Unofficial bindings `python/go/ruby`
- Private headers
 - `ENABLE_UNSTABLE_API_ABI_HEADERS` "Install API/ABI unstable xpdf headers."
 - WE WILL BREAK YOU

A viewer in 10 lines

```
int main(int argc, char **argv) {  
    QApplication a(argc, argv);  
    const auto document = Poppler::Document::load(argv[1]);  
    const auto page = document->page(0);  
    const auto image = page->renderToImage();  
    auto *label = new QLabel();  
    label->setPixmap(QPixmap::fromImage(image));  
    label->show();  
    return QApplication::exec();  
}
```


Development model

- Monthly release YY.MM
- Official CI tests Linux/Android/mingw/clang-tidy/clazy
- Unofficial CI tests FreeBSD/Mac/MSVC
- Oss-fuzz / Coverity / SonarCloud
- Gitlab MRs / issues
- ~30 committers last year
 - 6 people > 10 commits

How can I help?

- Report good bugs (if they don't exist already)
- Propose Merge Requests for existing bugs
- Review Merge Requests
- Do you have a spare "server" so we can run regression testing somewhere else than my laptop?

Thanks!

Questions?