



# Emulation at the German National Library

Emulation Expert Meeting

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# Overview

- Past: Multi-Media Access System (MMB)
- Present: Preservation planning in the German project kopal
- Future: Emulation in web archiving



## Multi-Media Access System (MMB)

- Access to installed CD-ROM's at local user PC's in library
- Developed in 1997, based on Win 95
- Installation kits: Changes of a reference workstation
- Still running but will be replaced by simple solution (access to archived ISO images, manual installation)

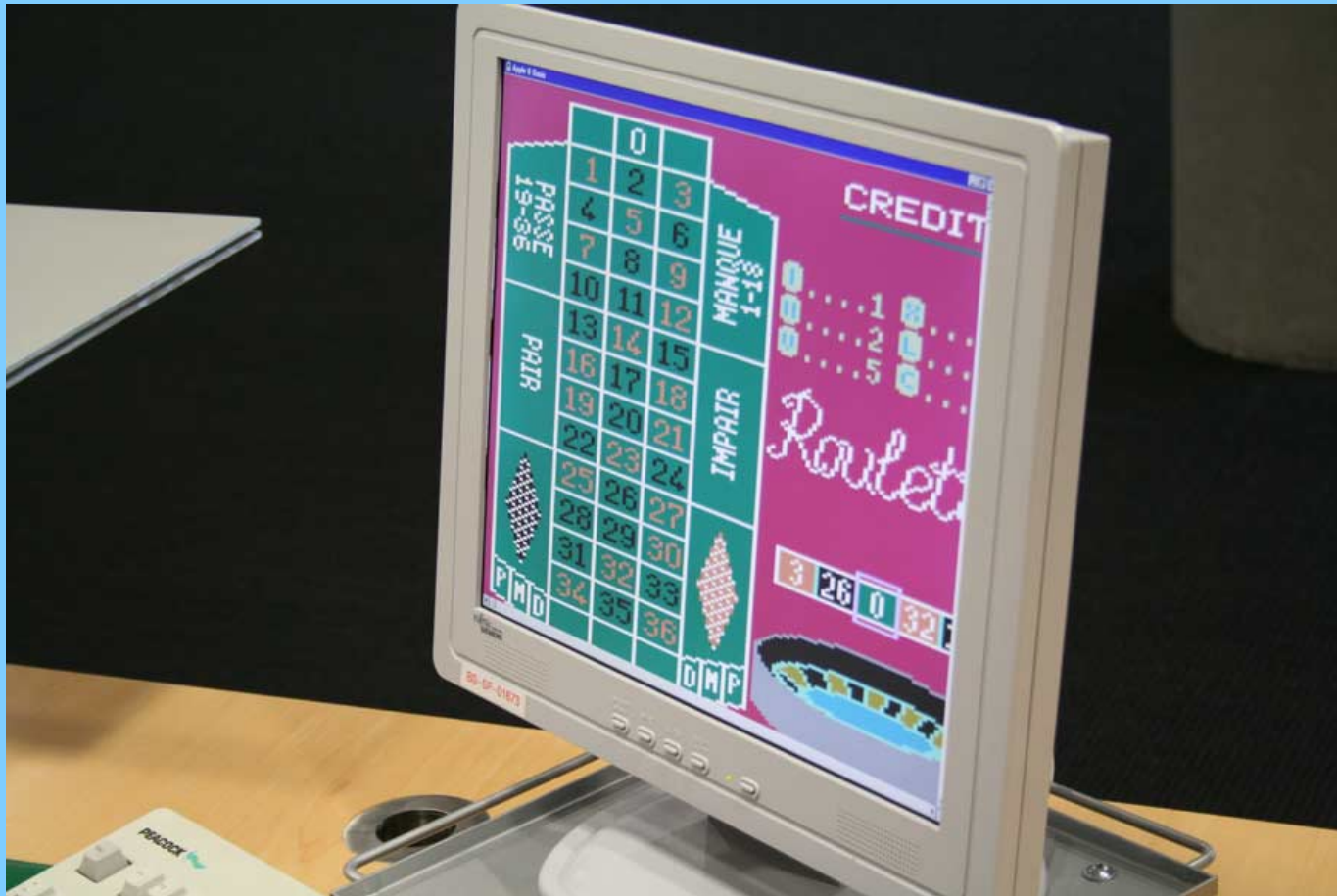


# Floppy-disks and emulation in MMB

- Huge range of floppy-disks (Apple II, C64, Amiga, Atari ST, etc.)
- Migration of disk images to CD-ROM
- Emulation software in addition to disk images on CD-ROM
- Installation kit for emulation
- Usable like any other CD-ROM's



# Access to Apple II disk with MMB

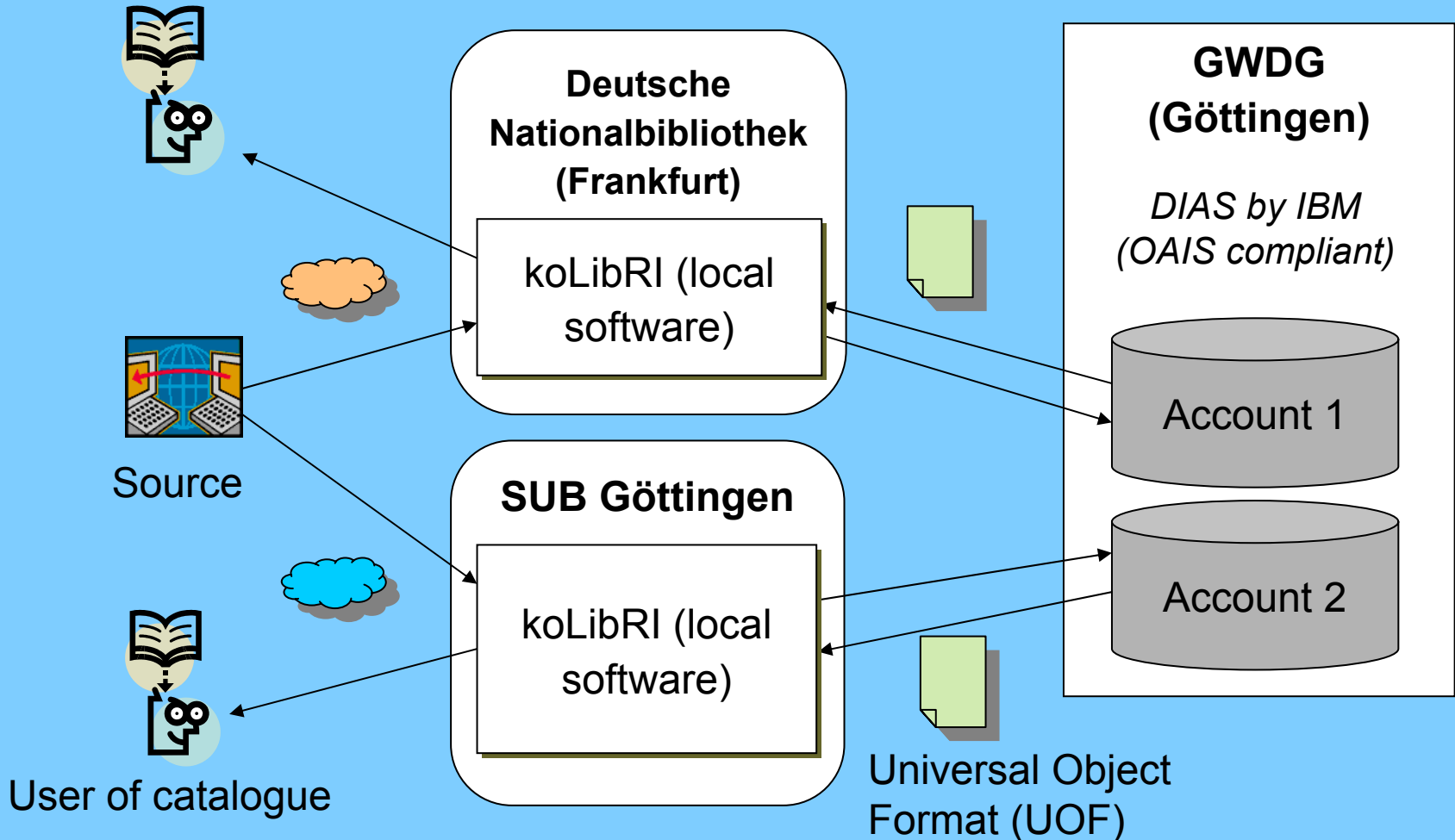


# The German project kopal

- Co-operative Development of a Long-Term Digital Information Archive
- Project partners: DNB, SUB Göttingen, GWDG, and IBM
- 2004 – 2007
- DIAS-Core by IBM, enhanced version of the DIAS at KB
- Additional software: Open source koLibRI by DNB and SUB Göttingen



# The German project kopal



# Preservation Planning in kopal

- Long-term preservation metadata for electronic resources (LMER) included in UOF  
→ Data Management of DIAS
- Query interface to Data Management
- Migration Manager in kopal Library for Retrieval and Ingest (koLibRI)
- Emulation information should be stored in a File Format Registry (GDFR?)
- Working emulation not within project time



# Emulation in Web Archiving

- Format migration of a complete archived web site is complicated - a lot of dependencies
- Idea of WWW is platform independency
- Needed environment: Browser (HTML, image viewer), a few common media viewers, exotic plug-ins (really needed?)
- Restricted requirements simplify emulation
- Emulation for WARC files?



# Thank you!

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