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Ensuring the Digital Sovereignty of Documents

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Digital Document Sovereignty: a quick overview:

- Interesecting problems
 - » Document leakage
 - Document portability & platform tying
 - » Document collaboration
 - » Document software deployment
- » Potential Solutions
 - » Encryption & Key management
 - » Cloud deployment
 - » On-premise, Open Source



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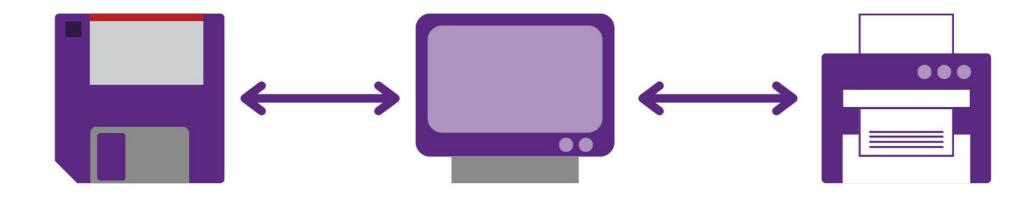
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Some perspective: PCs & Networks & Documents



The very old days: 80's - 90's

- Collaboration ==
 - Everyone comes & sits around the same CRT
 - » "Shared Documents" via sharing the same PC
 - » Or we print-out & post documents around the world, or floppies ...
 - » I **still** see footers: "to avoid wasting paper, please don't print out this E-mail"



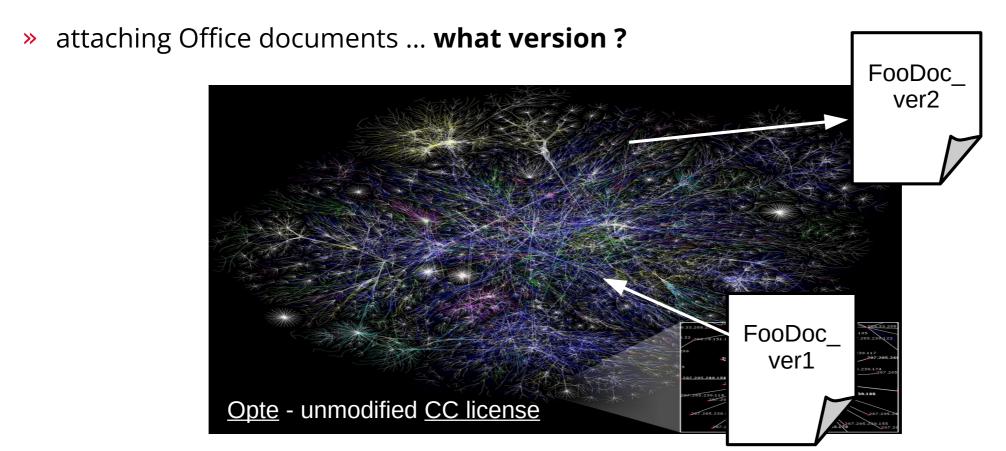
LANs - Netware / NT / network effects ... 90's onwards

- A feast of new networking protocols & standards:
 - » IPX/SPX, TCP/IP, DCE/SMB, Token-Ring, Ethernet, etc. etc. Storage + Auth ...
- Document data not standardized: RTF? DOC/XLS/PPT
 - >> But Word 6.0 takes ~90%+ market share in mid 90's

 FooDoc_ver1

Global networks & E-mail - 2000's

- » E-mail projects standards across the world ... standard protocols
 - » Plain-text → still migrating to HTML E-mail ... TNEF?
 - Unencrypted posting of mails around the world





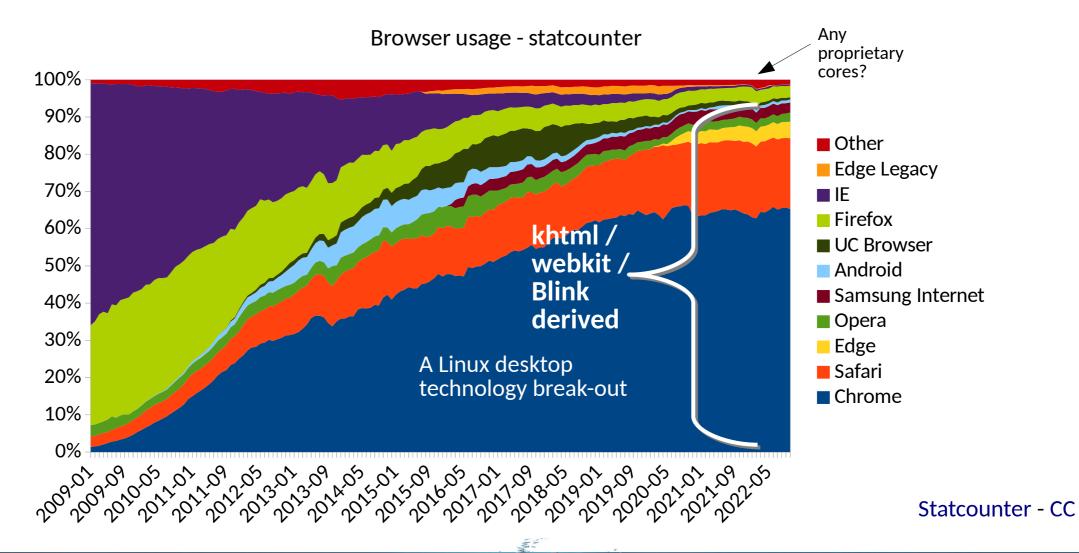
The problem of document portability

- » A "Legacy Rich" feature-set
 - » Extremely complex Microsoft Office file format(s)
 - A historic challenge for interoperability,
 - » many trillion Office documents extant
- » Open Document Format: ODF 2002 → onwards
 - Encouraging open-ness, documentation, standardization in file formats!
- » Microsoft Open-XML 2005 → onwards
 - » Excellent work: codifying decades of curious & arbitrary design decisions
 - » multiple, incompatible generations of form technology eg.
- » Still getting E-mailed all around the world ~daily ...

Documents - tied to a closed platform?

- The Web an Open Platform
 - The dominant vertical application interface
 - Cross-platform, cross device form-factor ...
 - > by **2012** (20+ of work) \rightarrow we could even generate & play web-audio!
 - Often a complete mess of cargo-culted, type-unsafe Javascript
 - » But delivers
- » Tie to Proprietary desktops:
 - » Mail? → good alternatives around
 - » Office Productivity

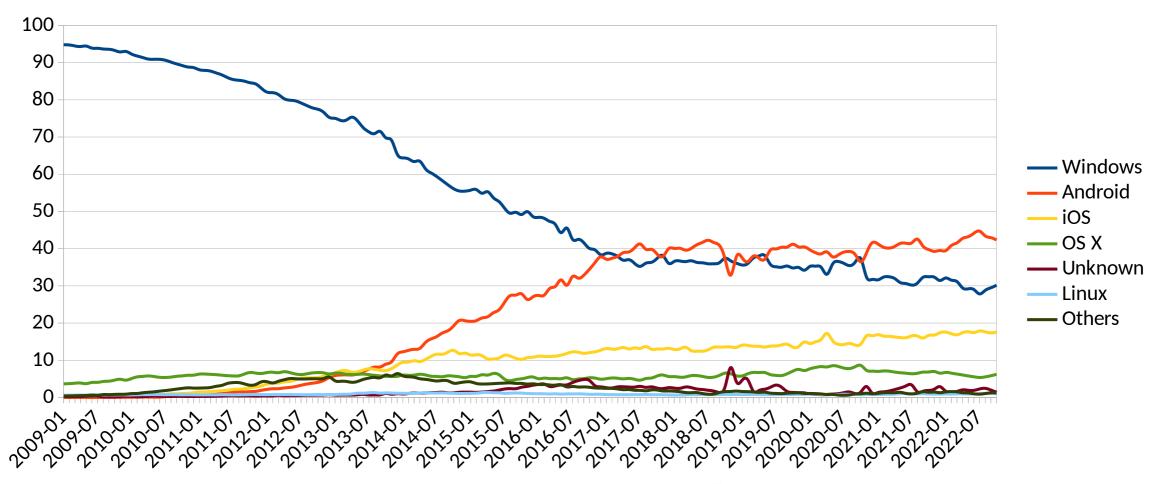
The amazing success of advert supported FLOSS:





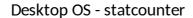


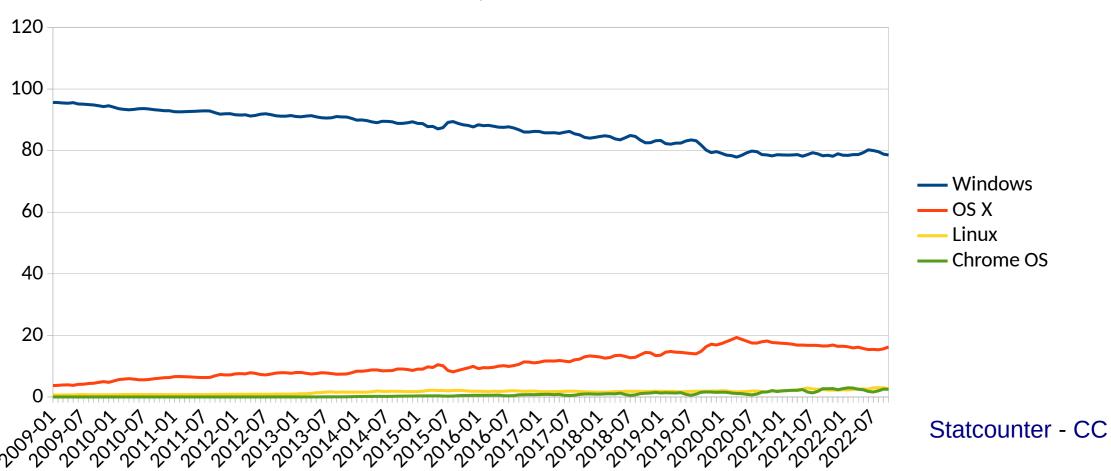
Devices are changing: OS market share - statcounter



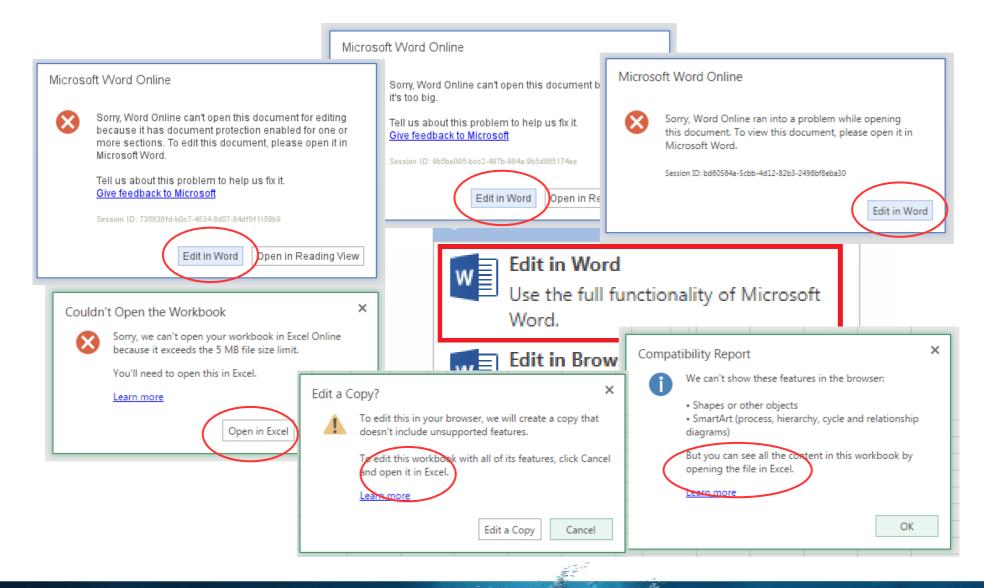
Statcounter - CC

Desktops are changing more slowly





MS Office Online tied to Desktop / Windows







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Managing Document Editing Software ...

- Control / Deploy
 - » Individual PCs:
 - Touch + shoe leather
 - » Networked PCs
 - » Remote Machine Management
- Previously could test & deploy
- » Proprietary Cloud Software:
 - » Little to no control
 - » Hyper-Centralized

- » What does a Digitally
 Sovereign solution look like
 - Control updates
 - Control versions
 - » Custom support & bespoke feature / fixing.
 - » Federated



What is the solution?





Central Digital signing of everything (RMS)

How can we show people a document, and control their access: ?

e.g. disable copy/paste, print, save-as, control views etc.

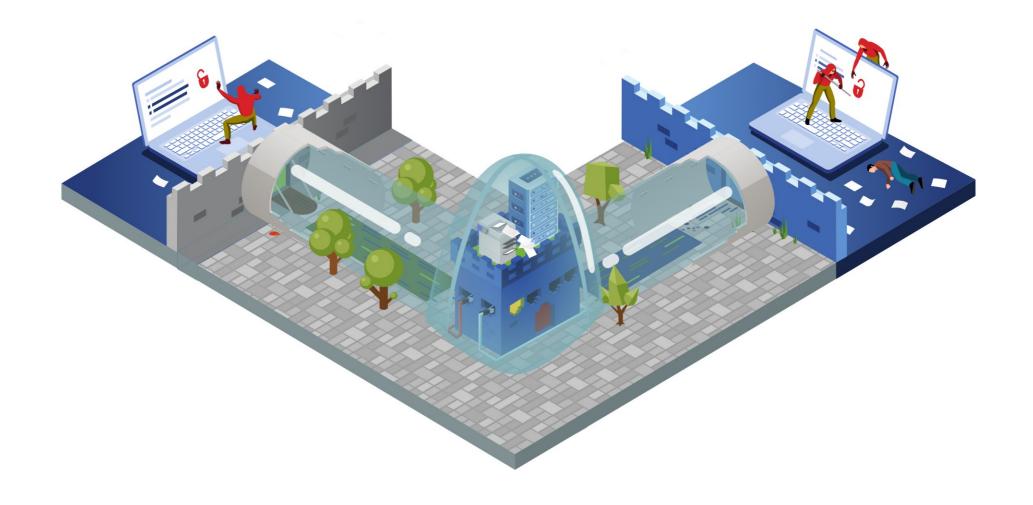
policy is ok Decrypt **Step 1:** encrypt the document document. MS sign / revoke from bottom up Step 3: mail it Windows OS **Step 2:** send the key to Azure Bootloader **BIOS**

Step 4: check

system and **app** is

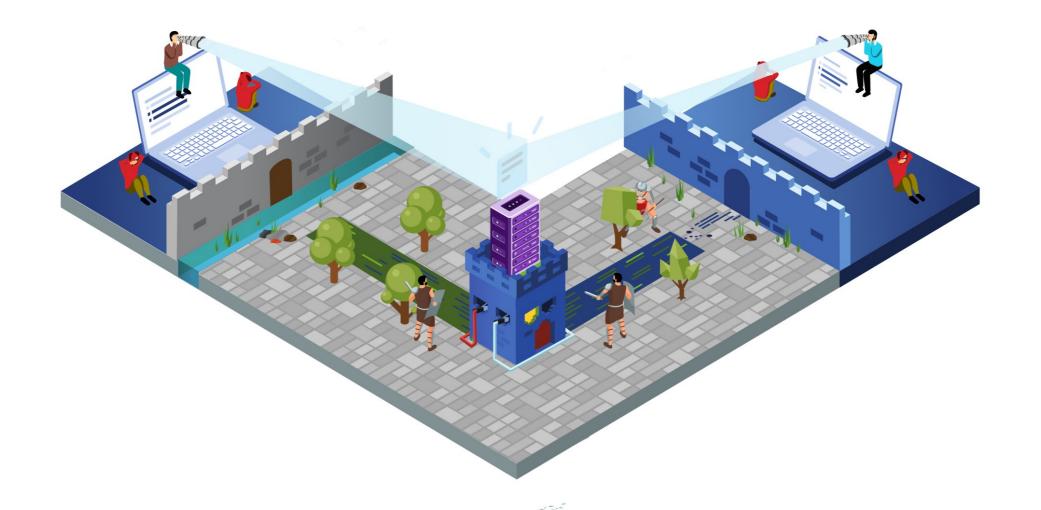
fully **signed**, and

End to end encryption?





Documents never leave the server







Digital Sovereignty: Open Source

- Scope for changing proprietary software:
 - » Approximately zero
- Even simple UX wins
 - Things that would take only seconds to fix
 - » Next-to-impossible ...
- As software gets more complex
 - As it gets "cleverer"
 - We need to be able to fix it.
- Open Source a pre-requisite for Digital Sovereignty





Liberating your documents together

- Open Source Document editing
- Best of breed security
- Interoperability bring your content
- Easy, centrally managed cloud deployment
- Excited to work here: come & see me for a demo.
- Coalition of partners working to restore people's freedom:



































APRIL, 2024 8TH - TEAM BUILDING 9TH & 10TH - COOL DAYS

CAMBRIDGE, UK



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Come and talk to us! Free your documents





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Any Questions?

