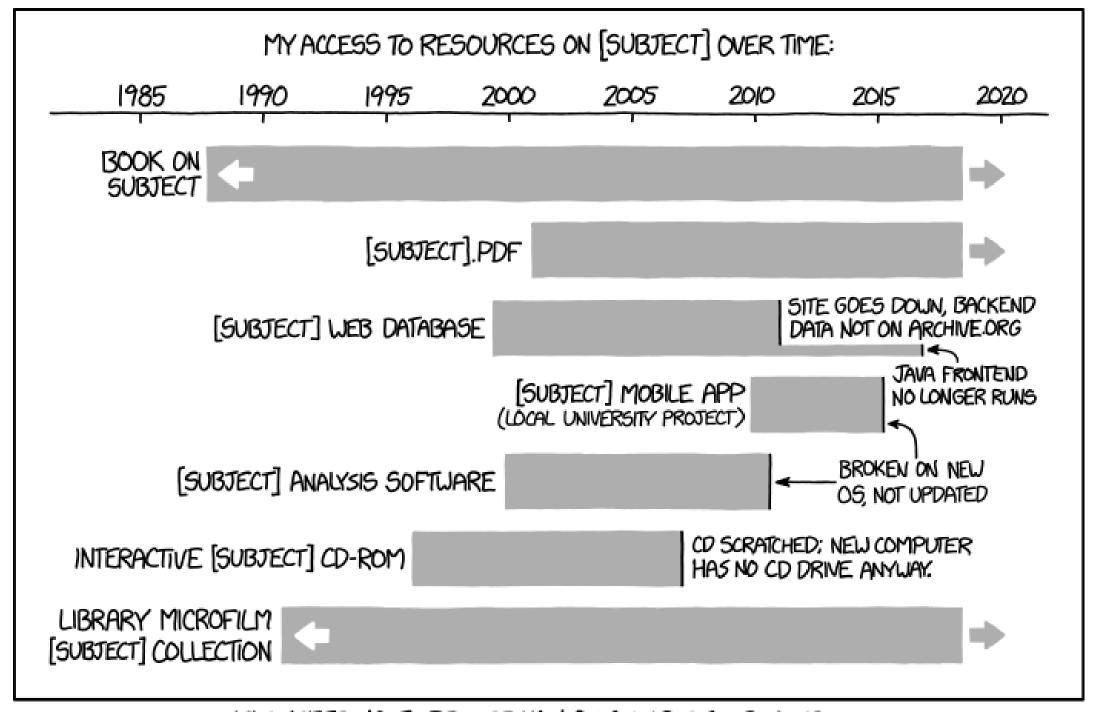
Digital Migration

Speaker notes

Speaker notes No notes on this slide.

Migration



IT'S UNSETTLING TO REALIZE HOW QUICKLY DIGITAL RESOURCES CAN DISAPPEAR WITHOUT ONGOING WORK TO MAINTAIN THEM.

Speaker notes

3

How long?

Speaker notes

Eternal Migration

- There is no final carrier.
- There is no evergreen format.

Therefore fact: Any data must sooner or later be migrated.

Speaker notes

Migration Types

- Storage
- Format
- Software / platform / environment

Speaker notes

Migration Types

Or more generically speaking:

- Hardware
- Software
- File

Speaker notes

Device Media



...or other media types (holograms, DNA, etc)

Speaker notes

Data Format(s)

Container

Videocodec

Audiocodec



Speaker notes

Not all files may include non-AV data. But most do.

Depending on what data that is, it may involve different formats. Even if just plain text descriptive metadata: What about encoding?

Speaker notes

Device Format Migration

- 1. Plan your migration
- 2. Copy the data
- 3. Check integrity of copy
- 4. Cross your fingers...

Speaker notes

If everything was planned and executed well, there should be no major issues. However, don't be surprised to encounter some (hopefully little) things that you either haven't anticipated, or simply couldn't have expected or known in the first place.

That should be the exception though - not the rule;)

No notes on this slide

Migration Planning

- Consider which changes are needed.
- Evaluate when, how and who.
- Make sure you have a valid backup.
- Schedule possible downtime (and impact on work).
- Impact on IT-administration/access?
- Estimated duration until migration is finished?

Software / platform / environment

Might require:

- Data format migration
- Reorganizing file structure (relocate, rename)
- Change of physical equipment
- Testing to avoid regressions
- etc.

No notes on this slide.

Things can happen...

- Silent regression
- Unseen (meta)data changes
- Domino-effect: Forced updates of other things I'm loving it! ®
- etc.

Media Format Migration

How to check integrity of format/codec migration?

Speaker notes

FrameMD5

×View +Go I	Help	amer	ika intro-10	min-ffv3-VHS.avi.framemd5
File Edit Sea	arch Options	Help	_	
1 #tb 0:	1/25			
20,	0,	0,	1,	829440, 3f13353819b8dd95560411c724f62247
30,	1,	1,	1,	829440, 82c700b6159c42f5c089c3bc5f825bfb
40,	2,	2,	1,	829440, 6a6a7c5cb50be4b91b8e160965ce64f5
50,	3,	3,	1,	829440, 1ae825aeb132ba4e9824e998dbef0b9f
60,	4,	4,	1,	829440, 1818af64a4a5c904639db6cb564958ad
70,	5,	5,	1,	829440, 6d7b21d2ce674ff7f04d32675c751515
80,	6,	6,	1,	829440, 9ca37f0f9ff2593b0ab495d8bed2e372
90,	7,	7,	1,	829440, 17247b8e246b71dbb36d1959d309be89
100,	8,	8,	1,	829440, 40961c2ee1b2dc93ec88376a8eb75484
110,	9,	9,	1,	829440, ebd0feadb920b27ab332da58a2ede716
120,	10,	10,	1,	829440, 552af6471f2e47fb948129dc532aad7b
130,	11,	11,	1,	829440, 774f9c033bb879f2d29791fdaa3bdbe2
140,	12,	12,	1,	829440, 957efc4e04ad2edbf216e89aee573971
150,	13,	13,	1,	829440, 88528e464aab18ab8de86c4a87747051
160,	14,	14,	1,	829440, e8436b35994bb6f0e944c3c8c54ec072
17.0	15	15	1	820110 5803h80f1288112050381316025c05f5

Speaker notes

FrameCRC/FrameMD5: One CRC/MD5 hashcode for each frame - or group of audio samples.

Eternal Migration

"After migration is before migration"

- Embrace the concept of "Eternal migration"
- Try considering how to get out of a technology before, or while you're using it.
- Find your timing sweet spot

Speaker notes

Sounds live a neverending chore, but it's like brushing your teeth or washing yourself: If you integrate it in your daily routine, it's not a big thing at all. And once you've done a few migrations of "whatever", you'll get the hang of it.

Obsolescence monitoring

- So, when is a good time to migrate?
- What could happen if you wait too long?
- Which vital components might become obsolete?

Speaker notes

Have someone in house that keeps an eye on technology news, and please: Speak and exchange yourself with peers in the community!

Don't listen too much to broadcast/production regarding preservation. (unless you're in that business)

Migration Summary

- Keep "Eternal Migration" in mind
- Consider migrations before you buy
- Migration + integrity checks = BFF
- Ask for documentation!
- Archive the sourcecode / schematics
- Monitor technology news
- Don't wait too long...

Questions? Comments?

Speaker notes