Further Reading

Interpreters & Emulators for Electronic Literature

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Outline of this FAQ-format talk:

1 What are interpreters and emulators?

2 How can I gain access to hundreds of electronic literature works today, using an interpreter?

3 How can interpreters and emulators help us teach and study electronic literature?

4 How can we help electronic literature readers now and in the future by developing these?

5 Why are interpreters and emulators only part of PAD’s plan?
1 What are interpreters and emulators?

They are computers, implemented in software.

But why ... ?
1 What are interpreters and emulators?

An *interpreter* is like a “player” for programs that are written in a standard format.

Interpreters can be implemented many different platforms (Mac, Windows, Linux, Palm, etc.) and the same standard-format program will then run on all these systems.

- Java Virtual Machine
- P-Machine
- Flash Player
- Z-Machine
1 What are interpreters and emulators?

An *emulator* allows one type of computer to act like another, so that programs written for the other computer can be run on it.

Emulating older (much slower) machines is easiest.

- Stella (Atari 2600)
- AppleWin, Catakig (Apple II)
- MAME (Arcade)
- Basilisk (Mac)
- Special-purpose emulators for PDP-1, Imlac, etc.
2 How can I gain access to hundreds of electronic literature works today, using an interpreter?

Get a Z-Machine interpreter and lay pillage to the Interactive Fiction Archive:

http://www.ifarchive.org (IF Archive)
http://www.wurb.com/if (Baf's Guide)

IF is mostly free, but with other types of e-lit there are legal (nontechnical) issues.

A demo and capsule history of interpreting IF.*
3 How can interpreters and emulators help us teach and study electronic literature?

• Better access to the authentic work
• Save state to allow returning to certain points*
• Can disassemble the original format for analysis
• Can be augmented for annotation
4. How can we help electronic literature readers now and in the future by developing these?

- Develop “e-lit critical” interpreters (e.g., for HyperCard)
- Add scholarly and teaching tools to existing open-source interpreters
- Contribute to emulator development to ensure that free, open-source emulators work with e-lit
5 Why are interpreters and emulators only part of PAD’s plan?

• Not everything is best modeled as a “program” to be interpreted or emulated (e.g., HTML work)

• It will sometimes be cheaper and just as effective to reimplement

• All works in the standard X-lit format can be studied with the same scholarly/teaching tools

• We still need metadata and to save the bits
But interpreters and emulators will still be quite helpful, and an essential part of PAD’s strategy.

Questions?

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