Models of Information Retrieval using HyperCard

Special Project Report

Submittedby

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Project Report submitted in partial fulfilment of the Master of Design in Visual Communications

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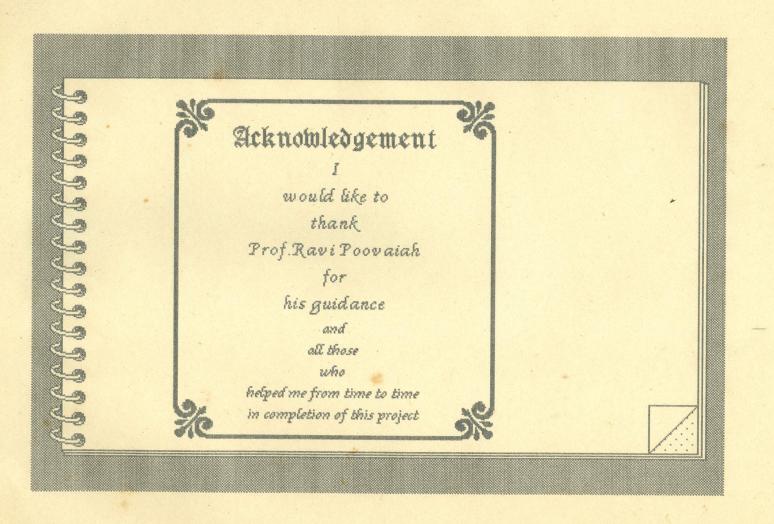
Guided by Prof. Ravi Pooyaiah

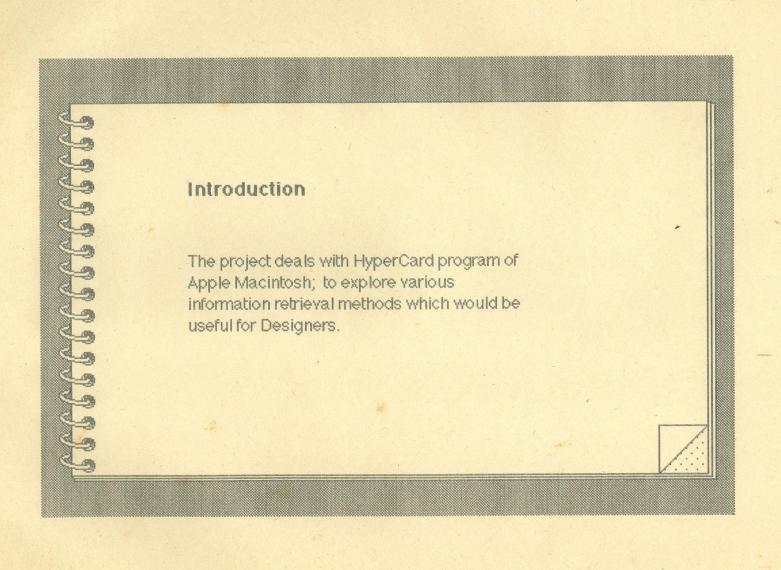
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Approach

The project is done as stacks on the HyperCard which shows various models in which the information can be retrieved. The information can be Static (as in the book) or Dynamic (video) or User Dependent or Interactive (games).

This report itself is a stack on HyperCard which also has an access to these models.

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The Work

The models are stored in the "Models Stack"; The stack "Structure" facilitates the user in knowing the technicalities involved in making the Models Stack and allows him an easy understanding of the overall information flow in the stack.

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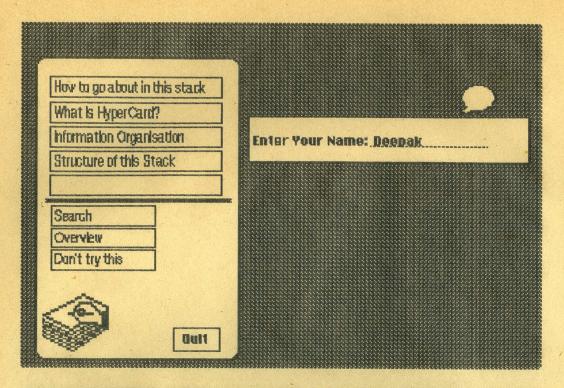
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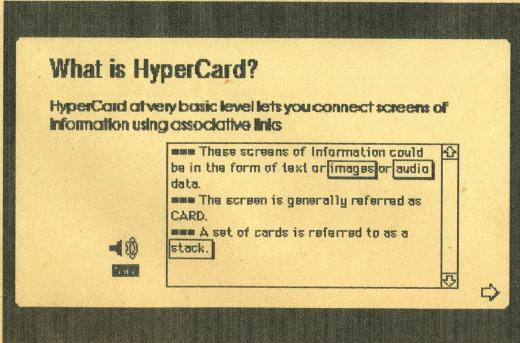
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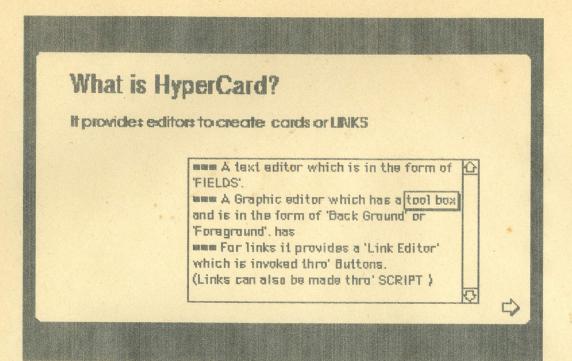
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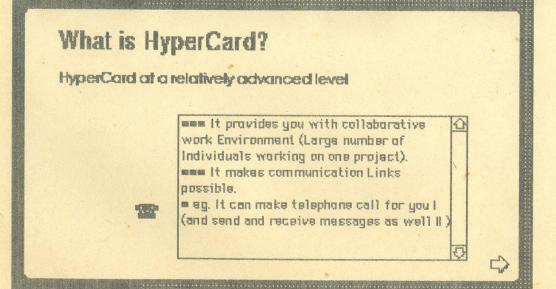
The Models Stack is different from "Help" stack provided by the HyperCard, in a way that Help talks about the physical use of the commands / operators / scripts. Where as "Models Stack" shows the conceptual use of them.

Deepak's Models Stack









What is HyperCard?

When you use a HyperCard application, what you see is the 'User Interface'

one is 'Front End' or the User Interface and other is the 'Back End' or the programming for the application.

The 'Smartness' of the Interface depends upon the sophistication of the Program. The communicability of the Program depends upon the 'Design' of the Interface.

What is HyperCard?

The Back End is the Script

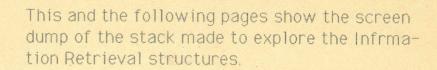


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'HyperTalk' and can develope not only into smart links but into complex programs.

The Back End also could be a external small Program (as Find File in the apple menu) or Large application which run

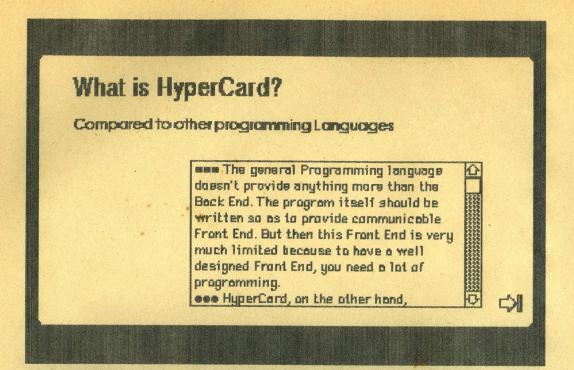


- ••• The script at a basic level is the Linking Process.
- ••• At advanced Level the script itself has its own programming Language

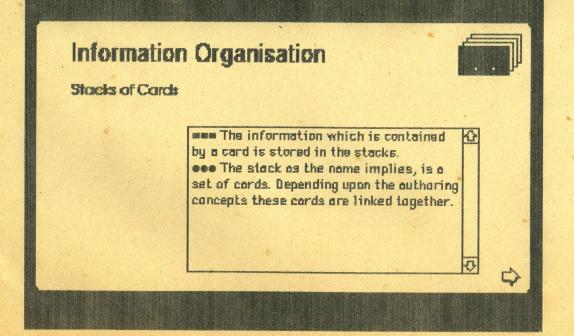
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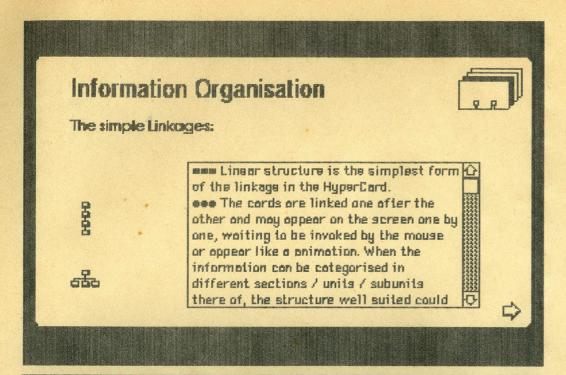
- ••• The Back End also could be a external small Program (as Find File in the apple menu) or Large application which run from the operating system. (as MacPaint)
- eg. Here is an example of "small program" which draws random number of circles on the screen and provides means to clean the screen. (Control being in HyperCard)

The second example "xxDeepakxx" is an external program which operates similarly but from the operating system, here the control is passed outside the HyperCard and the application is run.

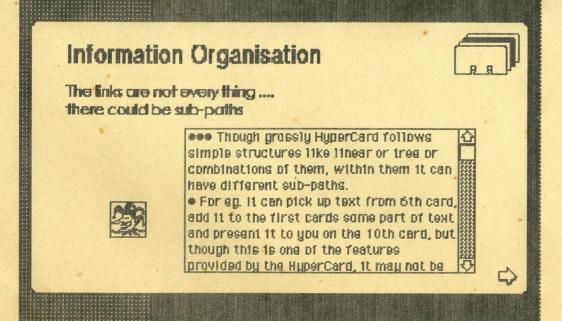


- ••• The general Programming language doesn't provide anything more than the Back End. The program itself should be written so as to provide communicable Front End. But then this Front End is very much limited because to have a well designed Front End, you need a lot of programming.
- ••• HyperCard, on the other hand, provides very easy means to design sophisticated Front End.

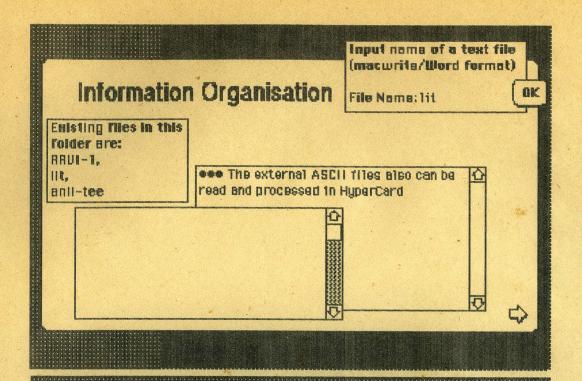


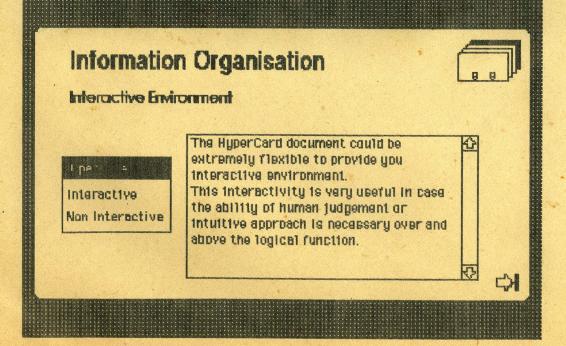


- ••• Linear structure is the simplest form of the linkage in the HyperCard.
- ●●● The cards are linked one after the other and may appear on the screen one by one, waiting to be invoked by the mouse or appear like a animation. When the information can be categorised in different sections / units / subunits there of, the structure well suited could be a tree structure. Where a card also acts as a node having one or more branches; These branches could be further branched or may follow linear structure.



- ••• Though grossly HyperCard follows simple structures like linear or tree or combinations of them, within them it can have different subpaths.
- For eg. It can pick up text from 6th card, add it to the first cards some part of text and present it to you on the 10th card, but though this is one of the features provided by the HyperCard, it may not be used so crudely!
- ••• This compatibility with data processing is possible not only inside a stack but across stacks and outside HyperCard environment also.





Clicking on any square either multiplies it or destroys it,

You have to make 19 squares on the screen.

Here you go !

This and the following pages show the screen dump of the stack made to explore the Infrmation Retrieval structures.

In case of ERROR: Hold Command Key and press tab

Clic**k here** when over





Click here when over

In case of KRNOR: Hold Command Hey and press 7ab

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References

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Wheels for the Mind from Apple Computer, Inc.

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