

CREATION OF A DATABASE OF PHOTOGRAPHS - PROBLEMS AND MANAGEMENT

Padmanabhan T.

1. INTRODUCTION

A Library specialising literature or any field of subjects needs inevitably a Database of photographs of eminent persons in the concerned field. Such a Database can be created using a CD-ROM Recorder with an optical camera. But CD-ROM Recorders are so costly which many Libraries cannot afford to install. So, this paper is intended for Libraries having AT-386 only, which can create a Database of photographs, with minimum additional equipments.

2. HARDWARE REQUIREMENTS

PC/AT 386 or 486 Computer or Pentium
Super VGA Display and display card
4MB RAM Preferable
Mouse
20MB of free hard disk
Handy Scanner-color or Black and White.

3. SOFTWARE REQUIREMENTS

Microsoft Windows 3.0 or above
TWAIN-Compliant application
Some OCR Software

4. SCANNING

Scanning an image is just like taking a photograph using a camera. Here the Scanner will have a lens and a light bar to illuminate the surface to be recorded. There will not be any film. The scanning software and the computer will electronically record the image. As the camera has different exposure settings and speed, the scanner can vary the exposure using its software. Exposure is made in both the equipments with the click of a button.

The advantages of scanning a picture using a scanner are the following:

- a) The size of image can be reduced or

enlarged while recording.

- b) The contrast and brightness can be changed.
- c) Recording can enhance the quality of the original.
- d) The image can be saved in a file for future use. Scanned image is stored in a graphic file. There are many different graphic file formats each having some advantages and disadvantages.
BMP Format is used in Windows Bit Map application. PCX Format is used in DTP applications. TAG IMAGE FILE FORMAT (TIFF), EPS are the names of such other formats.
- f) Some effects like mirror, negative, zoom can be obtained.

4.1 TEXT SCANNING

To Scan text, Optical Character Recognition (OCR) Software is necessary. There are many OCR software packages. AccuPage Technology allows you to scan text and images on the same page. In a single process it can scan both the image and the text. Even if the image is coloured and the text is in black and white, the same result is obtained in recording.

4.2 TWAIN

This software exchanges information between applications and devices such as scanner. If you are using a TWAIN-Compliant can be scanned. The wonder is that the software will join the two images. Transferring:- The image scanned in the preview window can be transferred to the application where

the image can be edited and manipulated.

4.3 MANAGING LARGE FILES :

A Scanned image occupies more space in the Hard Disc using a lower resolution reduce the file size. More than that TIFF compressed format can reduce significantly the file size of photographs.

5. DATABASE OF THE PHOTOGRAPHS

Higher resolution can produce better image. But it will occupy more disk space and more time to process. when a color photograph is scanned 200 dpi will be the optimum. Copies can be taken in laser

printers.

The disadvantages is that each passport size photograph itself will require considerable space in the hard disc. In the present days we get 1 Gigabyte Hard Disc at a nominal cost. This will enable a Library to organize a Database of photographs at a lesser cost without going for a costly CD-ROM Recorder.

SOURCES

1. HP Deskscan II User's Guide.
2. ScanMate Manual.

LIBRARY AUTOMATION

Quality of library services can be improved as computer methods become more widely adopted in libraries. All existing services should be updated or replaced to improve the library's image. One can improve the work of a library system which is highly useful for future network environment.

Four major areas recognized and well aided by the library professionals for computerization in a library are:

- > Periodicals Control
- > Circulation Transactions
- > Cataloguing Process
- > Acquisitions

Retrospective Conversion is a part of Cataloguing process which covers the conversion of the existing data into machine readable form.

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INTRODUCTION

In the modern world timely, correct, accurate and appropriate information is a prime commodity. The communication and processing of information has become one of the world's major endeavours. Scientific, industrial & technical areas are rapidly growing & scientific, technical subjects are being explored. New knowledge is acquired during the research & development or classroom though out the world. Application of new technology has become essential. Computers have appeared on the scene in the history of scientific & technical development. Computers are becoming an indispensable tool in information processing and useful for many purposes. Applications of Library Computer Technology is the only solution to the emerging needs of the clients.

Library automation is to make library staff more productive with less effort. Library staff can provide the user needed material in time. Computer based library system is the best combination of good service & low cost.

It compares to human body, library is the heart of every organization. In a modern society, books are vital & information is the blood. As a result, circulation function is a continuous process & with time it being added to the existing - similarly today's information will become retrospective for tomorrow. Every second, addition of current information is a must to keep up with the entire span.

Regular functioning can not be stopped, while updates are done, when the existing system is used to store the information, the staff is not able to update the information.