





#### Documents -- Conceptual

A document is an identifiable entity having some durable form, produced by a person or persons toward the goal of communication; it may take a number of forms, but must have a least one symbolic manifestation that used to store or communicate information between people. It is a cohesive entity formed of subcomponents in logical, layout, and content form.

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#### Documents -- Descriptive

- There was a day a document was a report or a book that consisted predominantly of text written by a single author.
- Documents today are no longer so simple, they:
  - Include text, graphic, images.

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- May be cohesive, e.g. a letter or a reportMay be a loose composite, e.g. a medical record.
- May be authored by individuals, groups, or organizations.

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May have a limited life span or be archival.



















# Reprographics Revolutions 1400-1600: Mass production (Y=cost/setup, X=cost/copy) Block (a master to make copies) Moveable type (a component based master) 1900-1960: Photo-optical processes (Y reduced twice)

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- 1900-1900: Photo-optical processes (Y reduced twice)
   Lithography (atomic level components, content neutral)
   Xerography (reusable master)
- 1960-1990: Electronic processes (no Y, X distributed)
   Fax (separation of master from copy)
- Laser printers (elimination of physical master)
- 2000-????: Ad hoc reprographics (X eliminated)
- WWW (elimination of physical copy)













# How is the Transition Going

- Creation and Editing
  - Creation tools favor text over graphics, equations, etc. Modeless editors have matured
    Universal functions exit
- Composition
  - Structural composition and editing is weak
  - Conversion and transformation is maturing
- Rendering

- Rendering presents new dilemmas related to control
- Classic presentation problems are now reconsidered Hyphenation, running heads, widows and orphans
   Long footnotes and juxtaposition of text and graphics (exterminate versus exotic foods)
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#### Understanding the Old Process

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- Measures
- points, ems and x-height Appearance
- Ioose, serif, oblique, normal
- Gutters, columns, and page position
- Images

- Dithering, screens, and anamorphic scaling
- Components
  Headings, indices, cross references, and footnotes
- Processes
  - Publishing, typesetting, and printer









"New" Concepts					
<ul> <li>Tree Structur</li> <li>Logical tree</li> <li>Layout tree</li> <li>Hypertext</li> <li>Anchors</li> <li>Links</li> <li>Nodes</li> <li>Document Co</li> <li>Elements</li> <li>Attributes</li> <li>Entities</li> </ul>	es – document content models ontent Modeling (SGML/XML)				
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### Conclusion (1991) There is going to be a change

We are blind if we think that the publishing house or print shop, both prime examples of the institutions of a passing industrial society, will not undergo a radical transformation. The immediate economic effects, already taking place, will be felt by the specialized work force which will become obsolete as their jobs are redefined. The shape of the institutions themselves must change as well, especially as we begin to see the functions of printer and publisher move into the corporation, the university, the library, and the home. As these other segments of society take on new roless in the processing of information, these institutions will also change. (p 54 of EPP/DPR, 1991)

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