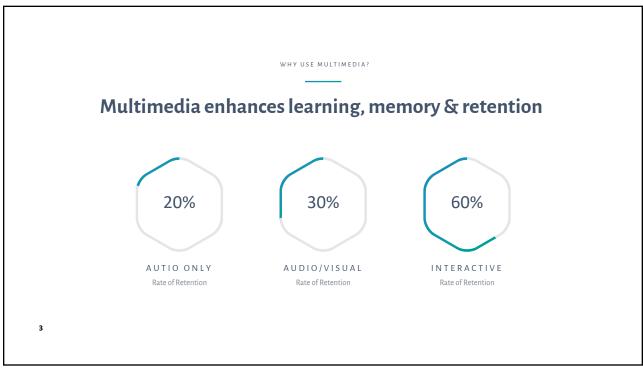




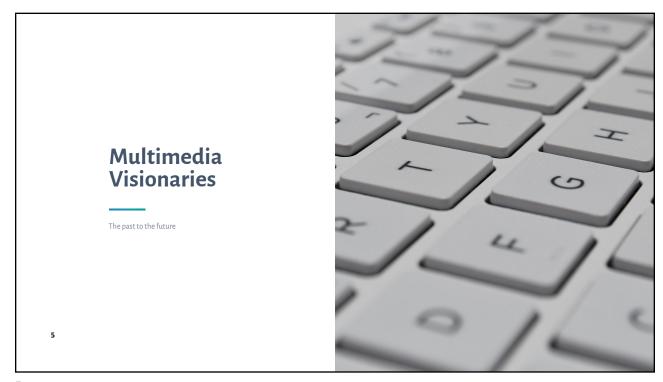
Contemporary Multimedia is the development, integration, and delivery of any combination of text, graphics, animation, sound or video through a computer or other electronic means.

WHAT IS MULTIMEDIA?

2







First Vannevar Bush
Generation Alan Turing



1870-1974

Vannevar Bush

Proposed new ideas and ways to make the work of scientists more efficient.

MEMEX I - 1945

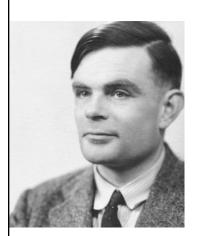
- Massive storage capacity
- Multimedia input devices such as the "vocoder" and "cyclops camera"
- Automatic mathematical calculations and logical reasoning
- New method to store and access information by associations

MEMEX II - 1959

- Considered new technical developments like magnetic tape, transistors & digital computers
- Professionally maintained associated databases (tape or facimile)
- Combined with digital computer, Bush believed the Memex II could learn from experience and even demonstrate a form of judgement

7

7



1912 - 1954

Alan Turing

Proposed an abstract machine known as the "Turing machine". The "machine" was a means of defining an "effective procedure".

SINGLE PURPOSE TURING MACHINE

Can out a specific set of instructions or "effective procedure".

UNIVERSAL TURING MACHINE (UTM)

Can accept a description of a single purpose Turing machine and imitate its behavior.

Implications of the UTM: If we can think of way to do something, the computer can do it.

8

MULTIMEDIA VISIONARIES

Second Generation

Doulas Engelbart

Theodore Nelson

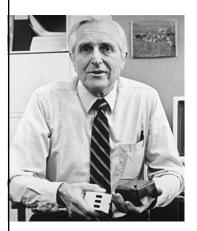
Alan Kay

Steve Jobs

Sir Tim Berners-Lee

9

9



1925 - 2013

Douglas Engelbart

Proposed practical applications of computers beyond the normal mathematical and sorting functions.

- Developed innovations for human-computer interactivity.
- Mouse, Multiple screen areas for text editing, Email

10



1937 - PRESENT

Theodore Nelson

Coined terms hypertext and hypermedia.

HYPERTEXT

Interactive text linked to other textual information

HYPERMEDIA

Extends interactive linking to other media

XANADU PROJECT

A dynamic, expanding, hypertext library available to everyone. Supported collaborative editing, tracking changes, crediting, and rewarding contributors.

11

11



1940 - PRESENT

Alan Kay

Proposed a computer design that supports the ways people perceive, learn, and create.

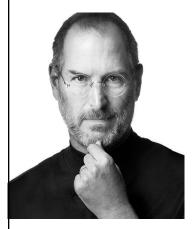
DYNABOOK

Designed as a personal computer.

GRAPHICAL USER INTERFACE (GUI)

Introduced Graphical User Interface (GUI) as an intuitive interface for the Dynabook.

12



1955 - 2011

Steve Jobs

Founded Apple in 1976 with Steve Wozniak

MACINTOSH (MAC)

- Macintosh computer introduced in 1984
- Graphical desktop and Icons provide user interface
- First mass produced computer with built in sound support.
- Multimedia computing became the standard for modern computers.

13

13



1955 - PRESENT

Sir Tim Berners-Lee

Father of the modern internet

THE WORLD WIDE WEB

- Developed a decentralized information system of "nodes" linked together for easy access across a network.
- Nodes could be any form of media.
- Anyone could add nodes.
- No centralized control over servers, documents or links.

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MULTIMEDIA VISIONARIES

Next Generation



15

15

SASCHKA UNSELD, PIXAR

The Blue Umbrella

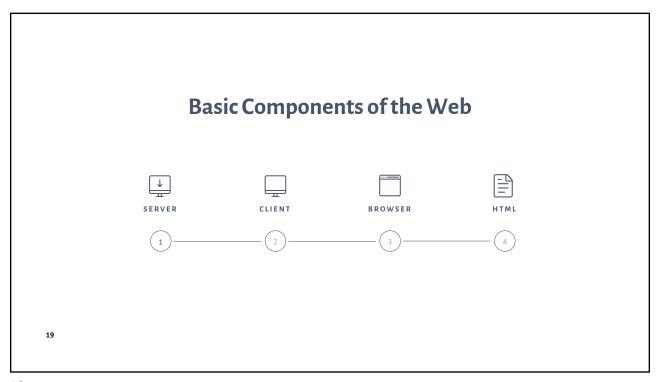


16

You!

17







The Revolution Continues - Technical breakthroughs in hardware & software. - Integration of computers with other devices. - Digital merger of disparate technologies and industries. - Expansion of creative opportunity