“Digital Revolution”
Represents a shift from analog and electronic technology to digital

Industrial Revolution (18th–19th c.)
Electronic Media (19th–20th c.)
Information Age (20th c.– )

These technological developments build upon and continue to inform each other today
Digital Media
Modern vernacular of 1s and 0s

On/Off
Electrical impulses (+5v / -5v)

Single 0 or 1 = 1 “bit”
A group of 8 bits = 1 “byte”
1 million bytes ≈ 1 “megabyte”
1,024 megabytes = 1 “gigabyte”
Microprocessor Transistor Counts 1971-2011 & Moore’s Law

curve shows transistor count doubling every two years
**Moore’s Law**

Describes a constant rate of change in computer processor speed

The number of transistors that can be placed inexpensively on an integrated circuit doubles every two years.

The number of transistors is closely connected to processor speed, memory, etc.

Computer processor speed doubles approximately every two years

Digital media is in a constant state of flux
“Internet of Things”
The integration of physical objects and sensors into networked media

Some Examples
- Twine wireless sensor block
- Nest thermostat
- Nike+
- Cosm platform
- Various smartphone applications
Last login: Wed Aug 31 16:58:37 on console
Joshua-Claytons-Computer:~ Joshua$
Introduction to Web Design & Computer Principles

Mondays and Wednesdays, 3:30-4:45 p.m.
Room 317, Warren Weaver Hall

This lecture-based course will provide you with hands-on experience using a variety of digital communications technologies. Topics covered include editing, page layout, Web design, animation, and a variety of multimedia tools. Principles of design, media theory, and history will also be touched on in class discussion.

Additional Information

We'll be using software applications including Photoshop, InDesign, Dreamweaver, and Flash for in-class demonstrations and assignments. These are not the only tools of their kind but they are a good place to start.

Introduction to Web Design & Computer Principles moves through a lot of material over the course of one semester. Any time you have a question on a course or its content, please feel free to drop by during my office hours or send me an email. If ever you feel you are falling behind or are confused by the material, please let me know and I'll be happy to help.

Links

- Fall 2011 Academic Calendar
- ITS Computer Labs
- Computer Science Department
- Computer Science Minors

Introduction to Web Design & Computer Principles, Fall 2011, Joshua Clayton
Joshua Clayton
jclayton@cs.nyu.edu

Office Hours
Monday and Wednesday
2:00–3:00
About You

Name

Where you’re from

Describe your computer literacy

What you’re looking forward to about this class
Administrative

Attendance
Assignments
Policy on lateness
Syllabus
For Next Class

Get access to textbooks
Review course website
Photoshop