

INTRODUCTION TO WEB DESIGN & COMPUTER PRINCIPLES



WHAT IS THE INTERNET?

THE GLOBAL SYSTEM OF INTERCONNECTED COMPUTER NETWORKS.

IT IS A *NETWORK OF NETWORKS* THAT CONSISTS OF PRIVATE, PUBLIC, ACADEMIC, BUSINESS, AND GOVERNMENT NETWORKS OF LOCAL TO GLOBAL SCOPE, LINKED BY A BROAD ARRAY OF ELECTRONIC, WIRELESS, AND OPTICAL NETWORKING TECHNOLOGIES. THE INTERNET CARRIES AN EXTENSIVE RANGE OF INFORMATION RESOURCES AND SERVICES, SUCH AS THE INTER-LINKED HYPERTEXT DOCUMENTS AND APPLICATIONS OF THE WORLD WIDE WEB(WWW), ELECTRONIC MAIL, TELEPHONY, AND FILE SHARING.

INTERNET AND THE WEB

THESE TERMS ARE DISTINCT BUT RELATED AND ERRONEOUSLY USED INTERCHANGEABLY!

THE WEB IS JUST ONE WAY OF ACCESSING INFORMATION OVER THE INTERNET BUT IT WILL BE THE SUBJECT OF THIS CLASS.



INTERNET ACCESS: 1980'S - PRESENT

PERSONAL COMPUTING



INTERNET ACCESS: 1980'S - PRESENT

PORTABLE COMPUTING



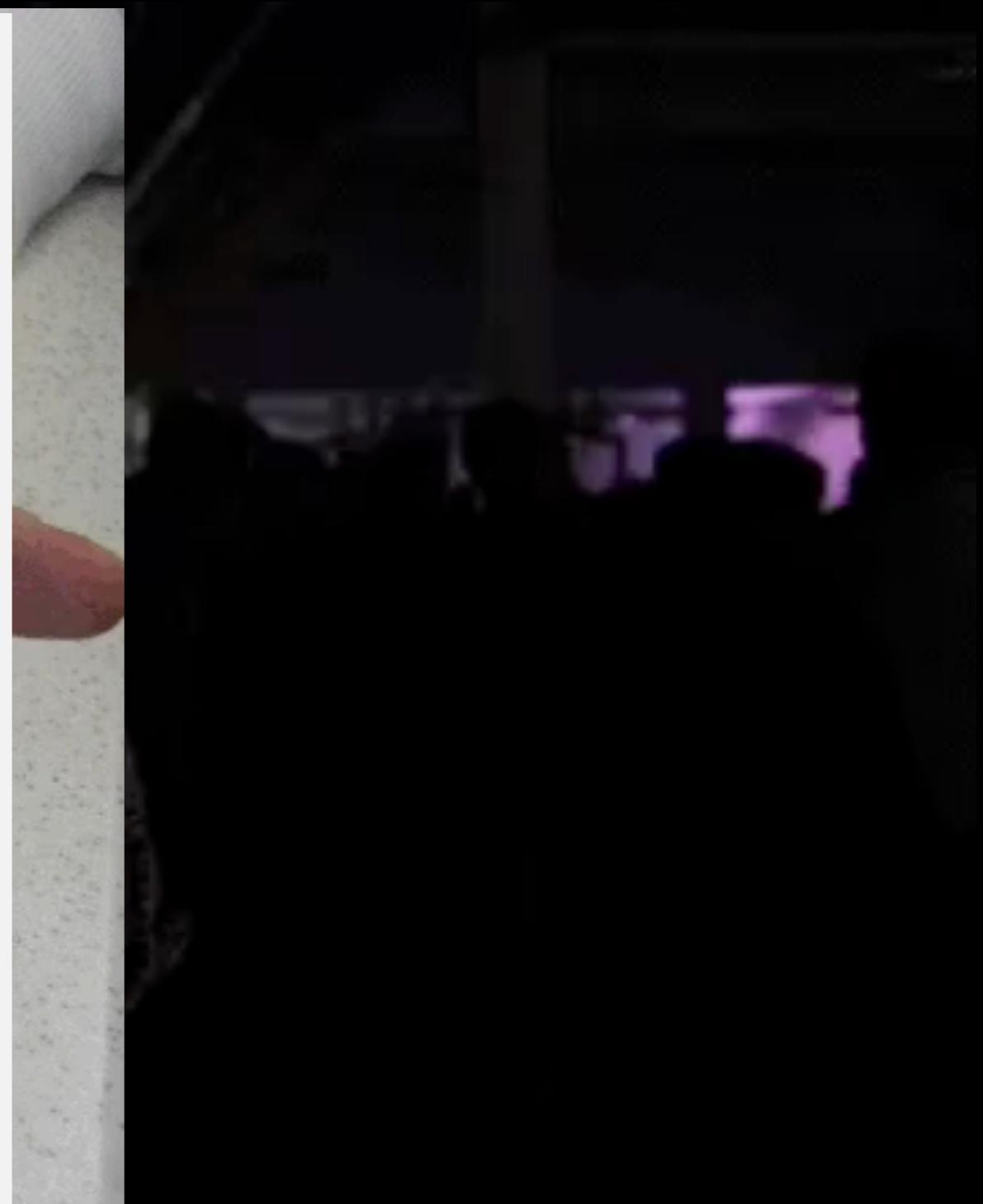
INTERNET ACCESS: 1980'S - PRESENT

MOBILE COMPUTING



INTERNET ACCESS: 1980'S - PRESENT

UBIQUITOUS COMPUTING



INTERNET ACCESS: 1980'S - PRESENT

AI AND AMBIENT COMPUTING



THE DIGITAL REVOLUTION

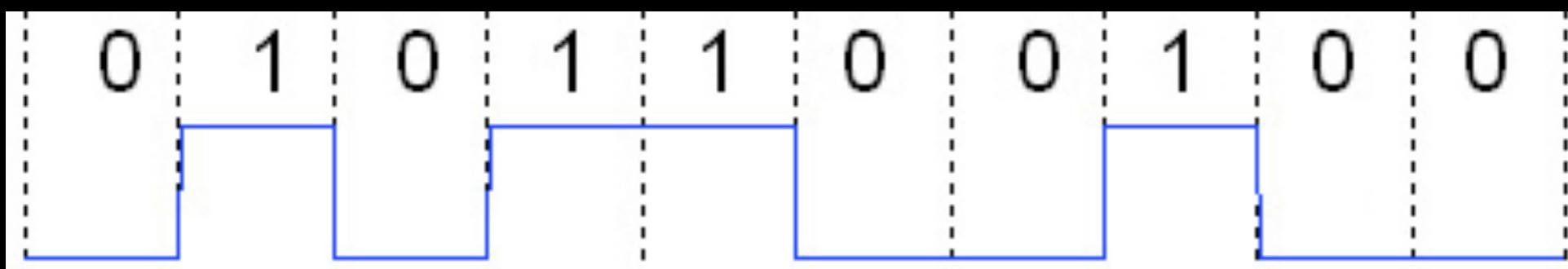
SHIFT FROM ANALOG AND ELECTRIC TO DIGITAL

MASS PRODUCTION OF DEVICES INCLUDING THE COMPUTER, MOBILE PHONE, AND INTERNET AND ITS DEPENDANCE ON DIGITAL CIRCUITS- WHICH DRIVE ALL OF THE ABOVE.



DIGITAL MEDIA SIGNAL

1 AND 0 ...USUALLY



ON AND OFF / TRUE FALSE

ELECTRICAL IMPULSES
+5V AND -5V

ACOUSTIC PRESSURE

SINGLE 0 OR 1 = 1 BIT

8 BITS = 1 BYTE

1000 BYTES = 1 KILOBYTE (KB)

1 MILLION BYTES = 1 MEGABYTE (MB)

1024 MEGABYTES = 1 GIGABYTE (GB)

MOORE'S LAW

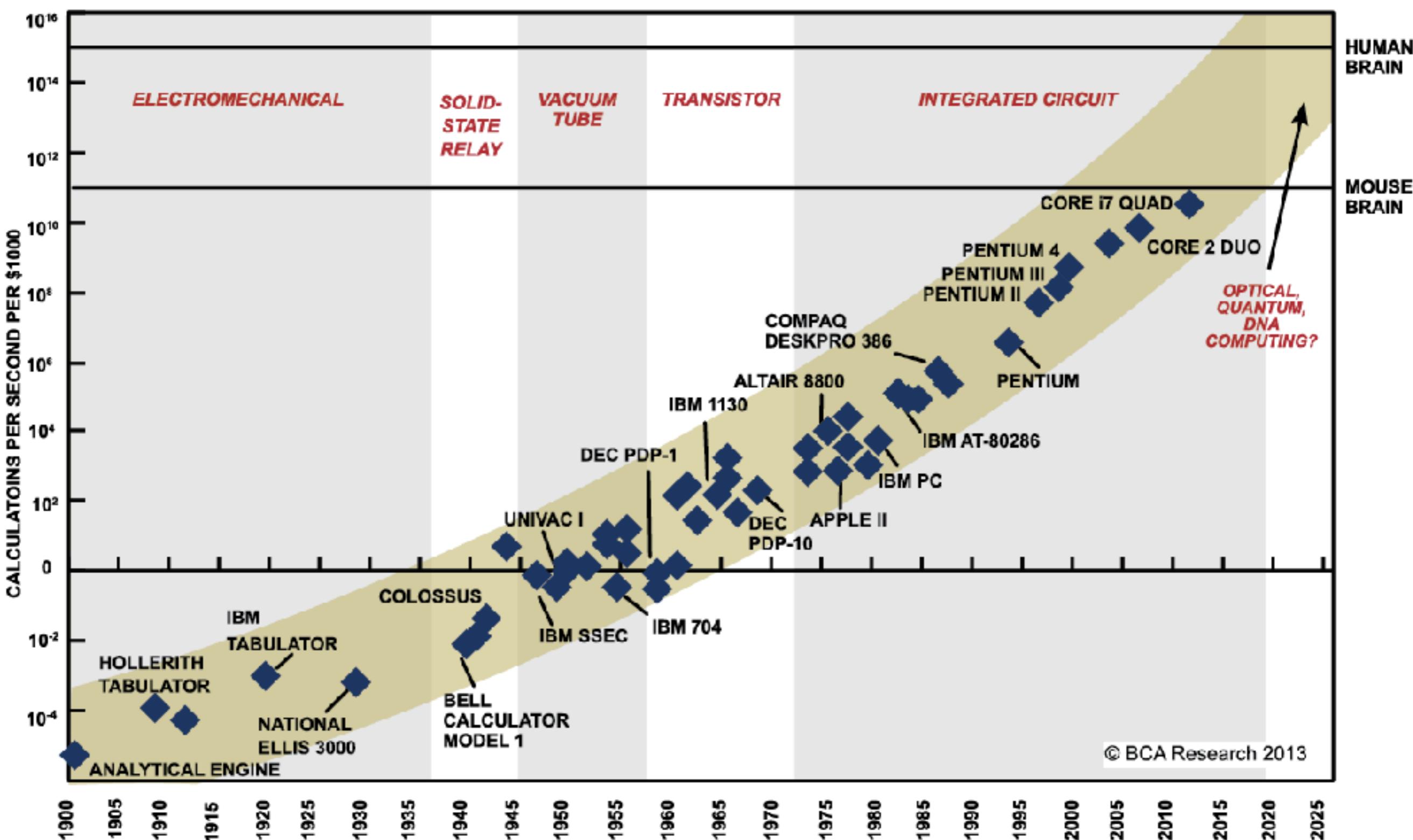
DESCRIBES A CONSTANT RATE OF CHANGE IN COMPUTER PROCESSOR SPEED

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 HAS DOUBLED APPROXIMATELY EVERY TWO YEARS.

MOORE'S LAW SEEMS TO BE PLATEAUING BUT HAS HELD STEADY FOR THE PAST 40 YEARS.



SOURCE: RAY KURZWEIL, "THE SINGULARITY IS NEAR: WHEN HUMANS TRANSCEND BIOLOGY", P.67, THE VIKING PRESS, 2006. DATAPoints BETWEEN 2000 AND 2012 REPRESENT BCA ESTIMATES.

COURSE CONTENT

UNIX COMMAND LINE



COURSE CONTENT

UNIX COMMAND LINE
HTML

HTML



COURSE CONTENT

UNIX COMMAND LINE
HTML
CSS



COURSE CONTENT

UNIX COMMAND LINE

HTML

CSS

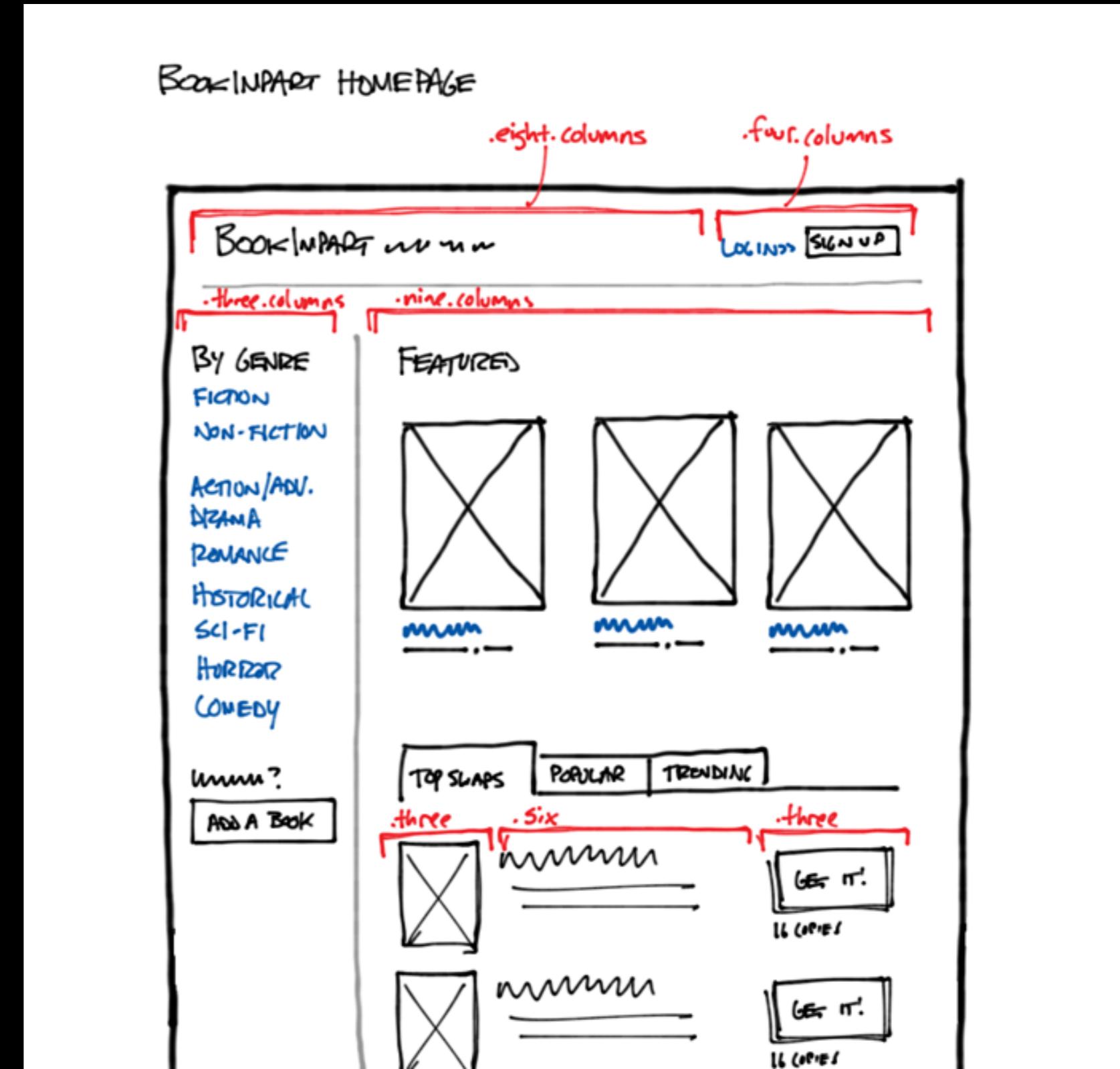
IMAGE EDITING

ANIMATION



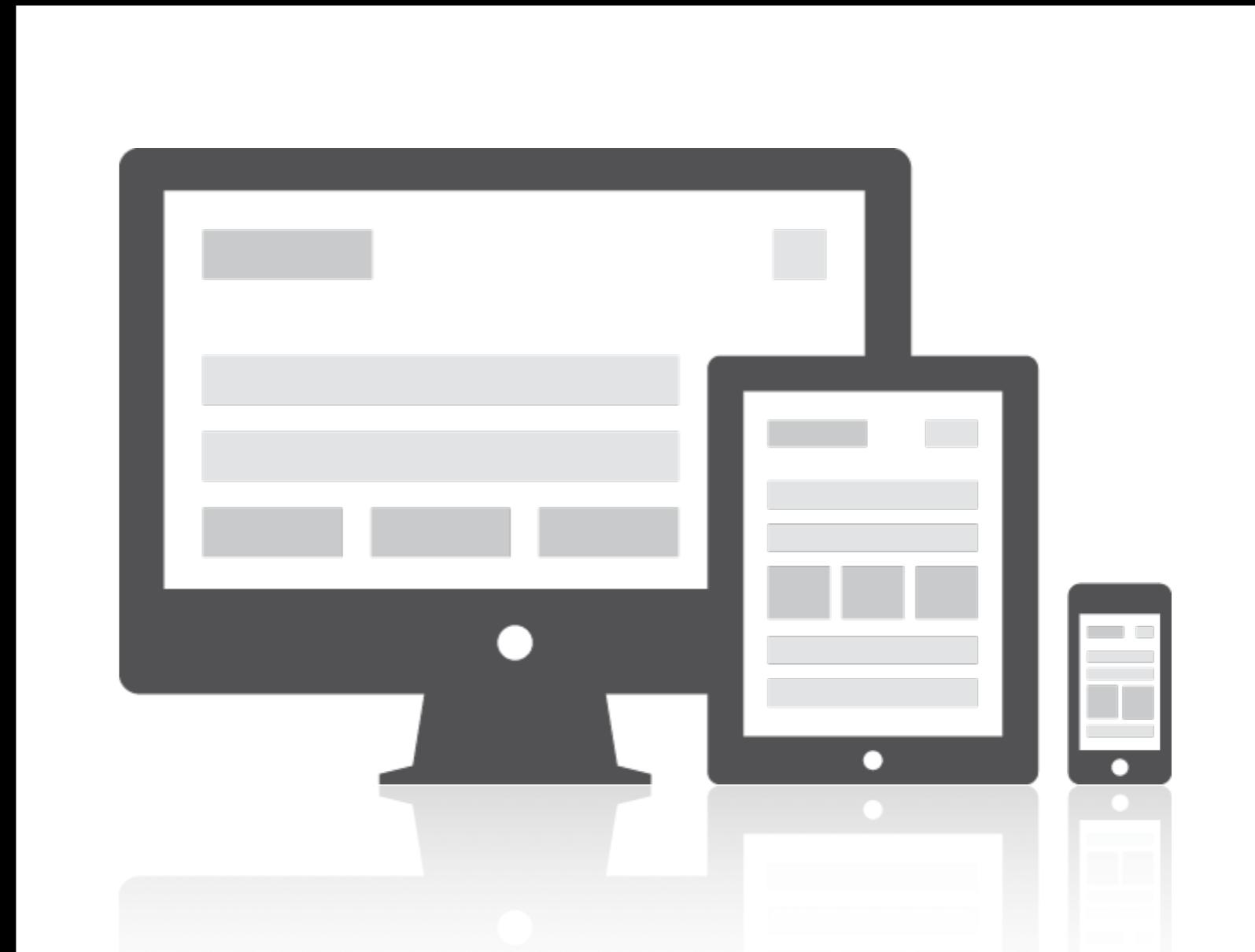
COURSE CONTENT

UNIX COMMAND LINE
HTML
CSS
IMAGE EDITING
ANIMATION
DESIGN AND WIREFRAMING



COURSE CONTENT

**UNIX COMMAND LINE
HTML
CSS
IMAGE EDITING
ANIMATION
DESIGN AND WIREFRAMING
RESPONSIVE WEB DESIGN**



COURSE CONTENT

UNIX COMMAND LINE

HTML

CSS

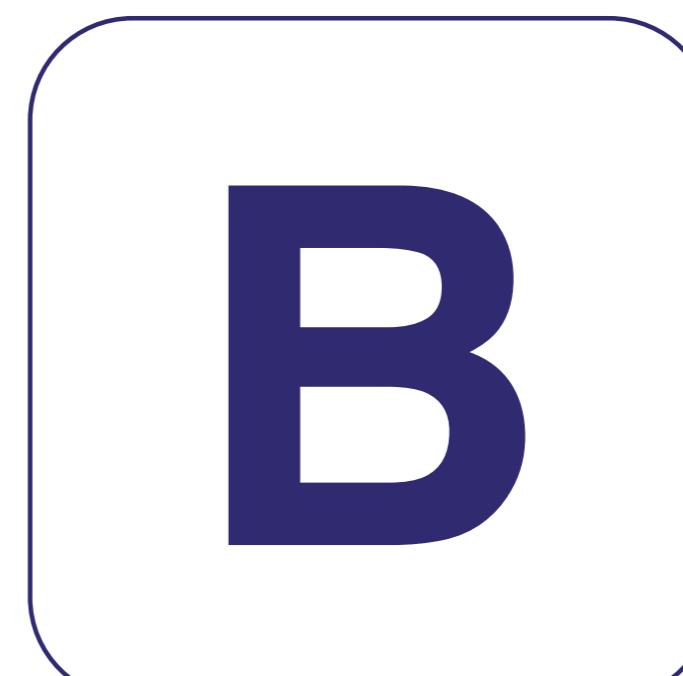
IMAGE EDITING

ANIMATION

DESIGN AND WIREFRAMING

RESPONSIVE WEB DESIGN

WEB FRAMEWORKS

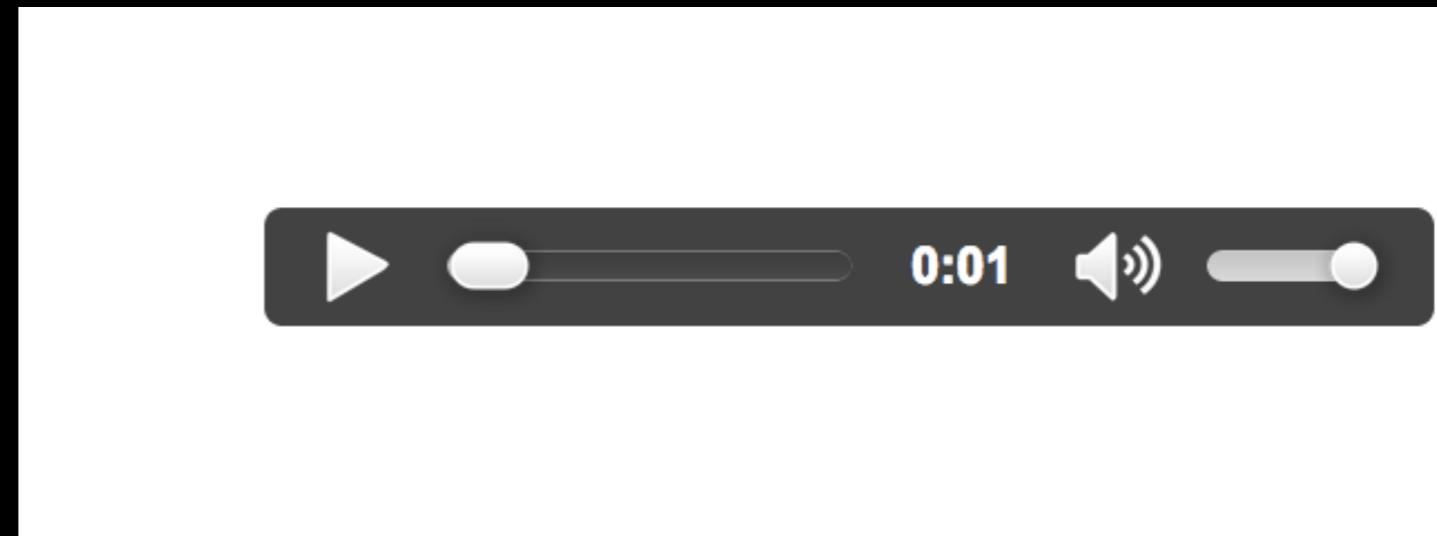


A large, bold, blue letter 'B' is centered within a white rectangular area. This white area is enclosed by a thin, dark blue border and has rounded corners. The entire composition is set against a black background.

B

COURSE CONTENT

UNIX COMMAND LINE
HTML
CSS
IMAGE EDITING
ANIMATION
DESIGN AND WIREFRAMING
RESPONSIVE WEB DESIGN
WEB FRAMEWORKS
WEB AUDIO AND VIDEO



COURSE CONTENT

UNIX COMMAND LINE

HTML

CSS

IMAGE EDITING

ANIMATION

DESIGN AND WIREFRAMING

RESPONSIVE WEB DESIGN

WEB FRAMEWORKS

WEB AUDIO AND VIDEO

JQUERY AND JAVASCRIPT



COURSE CONTENT

UNIX COMMAND LINE

HTML

CSS

IMAGE EDITING

ANIMATION

DESIGN AND WIREFRAMING

RESPONSIVE WEB DESIGN

WEB FRAMEWORKS

WEB AUDIO AND VIDEO

JQUERY

WEB FORMS

Name

Email

Website

Submit

COURSE CONTENT

UNIX COMMAND LINE
HTML
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IMAGE EDITING
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RESPONSIVE WEB DESIGN
WEB FRAMEWORKS
WEB AUDIO AND VIDEO
JQUERY
WEB FORMS
WEB HOSTING AND DOMAINS



SYLLABUS

ATTENDANCE

YOU ARE EXPECTED TO COME TO ALL CLASSES AND ARRIVE ON TIME.

PLEASE LET ME KNOW IN ADVANCE IF YOU WILL BE OUT FOR ANY REASON.

PLEASE LET ME KNOW IF YOU MISS CLASS DUE TO ILLNESS.

COMPUTERS ARE WELCOME IN CLASS BUT NOT REQUIRED.

IF YOU EVER FEEL OVERWHELMED OR NEED EXTRA HELP, I WILL BE AVAILABLE.

SYLLABUS

ASSISTANCE

LA GUARDIA CO-OP SHOULD BE YOUR FIRST OPTION FOR PERSON TO PERSON HELP. I HAVE RECEIVED GREAT FEEDBACK FROM THIS RESOURCE SO PLEASE USE IT.

THE CLASS HAS ITS OWN LIST SERV WHICH I WILL BE USING TO MAKE CLASS ANNOUNCEMENTS. DO NOT FEEL TIMID IN ASKING THE CLASS QUESTIONS OR FOR HELP. WE SHOULD ALL HELP EACH OTHER AS MUCH AS POSSIBLE

IF THE CLASS WANTS IT, I AM OPEN TO STARTING A SLACK CHANNEL SO THAT STUDENTS AS WELL AS THE TA AND ME CAN TALK WITH EVERYONE IN A MORE IMMEDIATE WAY. I HAVE RECEIVED MIXED REVIEWS FROM STUDENTS USING SLACK.

I ONLY HAVE ONE HOUR OF OFFICE HOURS PER WEEK SO SCHEDULE WISELY. IDEALLY I'D LIKE TO ENCOUNTER EACH STUDENT AT LEAST ONCE SO THAT I CAN CEMENT A FACE WITH A NAME!

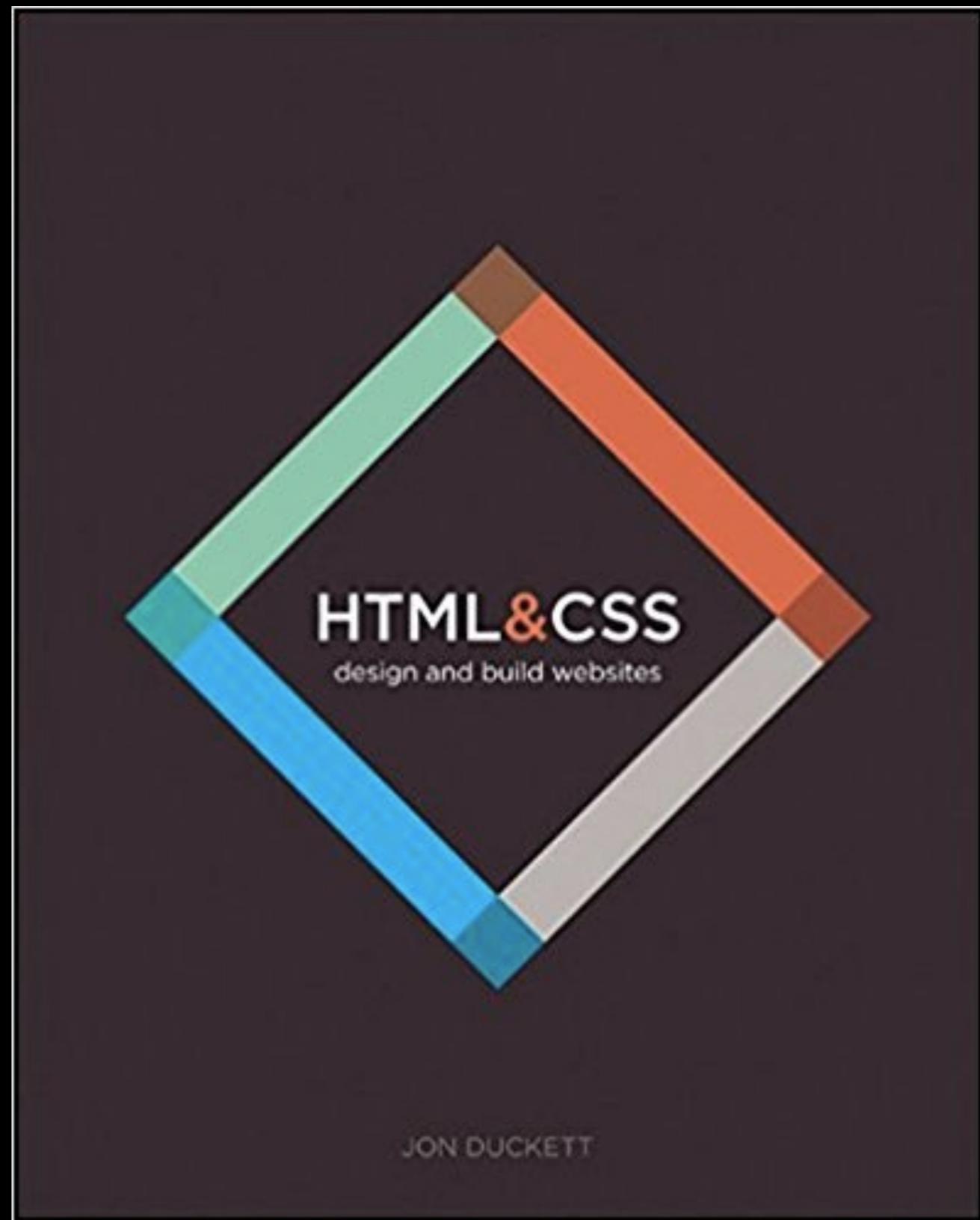
SYLLABUS

TEXTBOOK

*HTML and CSS:
Design and Build Websites*

Jon Duckett

ISBN: 978-1-118-00818-8



SYLLABUS

ASSIGNMENTS

THERE WILL BE NINE ASSIGNMENTS OVER THE COURSE OF THE SEMESTER.

DETAILS OF EACH ASSIGNMENT WILL BE POSTED ON THE CLASS WEBSITE.

ALL ASSIGNMENTS ARE TO BE SUBMITTED VIA NYU CLASSES.

DO YOUR BEST TO TURN WORK IN ON TIME. 10% WILL BE DEDUCTED FOR EACH CLASS DAY AFTER THE DEADLINE.

NO ASSIGNMENTS WILL BE ACCEPTED AFTER THREE CLASSES OR AFTER THE FINAL EXAM!!!!!!

SYLLABUS

GRADING

ASSIGNMENTS: 40%

MIDTERM EXAM: 25%

FINAL EXAM: 35%

ME

**Jason Aston
Adjunct Professor**

aston@cs.nyu.edu

**Office Hours:
Tuesdays 12:15PM - 1:15PM
ROOM 328 in this building
BUT make an appointment or else!**

BUFFALO66



TEACHING ASSISTANT

ADDIE WALKER

ADW439@NYU.EDU

WHAT DO YOU WANT TO LEARN IN THIS CLASS?

HOMEWORK

REVIEW THE CLASS WEBSITE!

HTTP://WWW.JASON-ASTON.COM/INTROWEB-S18

AND

**READ THE INTRODUCTION SECTION OF OUR REQUIRED
BOOK.**

GET YOUR I6 ACCOUNT SET UP!!!!!!