

Announcements

- Reading:
 - * For today
 - Chapters 18, 19, and 21 of Fluency
 - Chapter 1 of QuickStart to JavaScript
 - * For Wednesday
 - Chapter 21 of Fluency



Announcements

Project 1B was due before Noon today



Announcements

- Grades
 - * TA's are students, too, and they are behind on grading
 - * We'll get caught up as soon as we can



Announcements

- New approach to grading labs
 - You answer questions and give the URL for your Web page in a Catalyst WebQ quiz
 - Open all week
 - Return to it again and again
 - "Open book" like all labs
 - It's due on Monday at noon
 - No Collect It
 - No separate Word document



Announcements

- New approach starts with today's lab!
- 1. Work on the lab for a while
 - 2. Go to Catalyst WebQ
 - 1. Enter your Web page's URL
 - 2. Answer some questions
 - Repeat Steps 1 and 2 until done with the lab and the questions in WebQ.
 - 4. Upload your lab to your Web space wih sftp.
 - TA's check your Web page and assign more points.



Announcements

- Advantages
 - * You get some feedback while you're working on the labs
 - * The questions in WebQ
 - Point you toward tricky parts of the lab.
 - Make sure you understand the materials.
 - Because Catalyst does most of the grading, TA's can grade the rest of your work faster.



Announcement

- Lab 5/6 counts as two labs
 - * It takes longer than an hour
 - * Work on it all week



Announcements

- Weekly Quick Writes
 - * Cover anything in lecture or reading
 - * From the previous week or this week up to the day of the Quick Write
 - * Can take place in any lecture
 - * We drop your lowest two scores for the quarter



Announcements

- Quizzes cover the last week's reading and lectures
- Pop quizzes can take place during any lab session
- We drop your lowest two scores for the quarter



Announcements

- This week's pop quiz will cover
 - * Chapter 10
 - * Chapter 18 (pages 519-526 only)
- Next week's pop quiz will cover
 - * The rest of chapter 18
 - * Chapters 19, 20, and 21
 - * Chapter 1 in QuickStart



Keepin' on with the Program:

Fundamental Programming Concepts Expressed in JavaScript (continued)

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Comments

- HTML
 - <!- HTML comments →
- JavaScript

//Single-line JavaScript comment

/*Multi-line JavaScript comment continues for more than one line*/



Comments

- Annotate your code
 - * Notes to yourself and that programmer six months down the road who has to change or add something to your program



Exercise

- Part 1: Variable names
 - * A name is a name is a name



Three Basic Date Types of Javascript

- Numbers:1345345
- Strings: "Americano"
- Booleans: true and false
 - * These kind of values are called *data types* or just *types*



Numbers

- Rules for Writing Numbers
 - * There are no "units" or commas
 - * Can have about 10 significant digits and can range from 10⁻³²⁴ to 10³⁰⁸



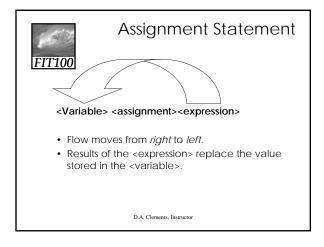
Strings

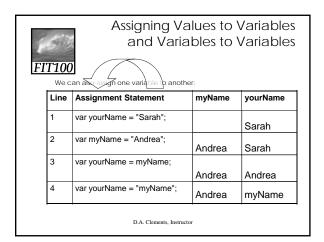
- Strings are sequences of keyboard characters
- Strings are always surrounded by single ('') or double quotes ("")
- Strings can initialize a declaration
 - * var hairColor = "black";
- Quotes can nest
 - * firstLine = "Johnson called, 'Dude!'"



Literals

- How string literals are stored
 - * Quotes are removed (they are only used to delimit the string literal)
 - *Delimit* means that the quotes set the starting and stopping points of the literal
 - * Any character can be stored in memory
 - Even a character that cannot be typed can be stored, using escape mechanism – in JavaScript, the backslash (\)





Other Assignment Operators

FIT100

`	\smile	
Line	Assignment Statement	Value in myAge
1	var myage = 32;	32
2	myAge = myAge + 2;	34
3	myAge += 2;	36
4	myAge ++;	37
5	myAge -= 3;	34
6	myAge -;	33

D.A. Clements, Instructor



Assignment

- Three Key Points
 - * <variable ><operator><expression or value>
 - * All three of the components must be given
 - if anything is missing, the statement is meaningless
 - $\ast\,$ Flow of value to identifier is always right to left
 - * Values of any variables used in the expression are always their values before the start of the execution of the assignment



Exercises

- Parts 2 and 3
 - * What's the value of Dude?
 - * Scissor, Rock, paper