

Announcements

- ❖ Check class announcements daily
- ❖ You must implement programming projects by yourself

Anonymous Functions

- ❖ Dynamically declared at run time without having to provide a name
- ❖ **Example:** AnonymousFunc.html
- ❖ You can pass the anonymous function as a parameter
- ❖ Can be used as a callback function
- ❖ What is callback function?

JQuery User Interfaces

- ❖ JavaScript library based on JQuery
- ❖ **Example: DatePicker.html**
- ❖ **Example: JQueryFadeToOneFile.html**
- ❖ **Example: JQueryFadeTo.html**

Debuggers

❖ Firebug demo

Java

- ❖ Let's review some features of the Java programming language and how they compare with JavaScript
- ❖ Java
 - ❖ Compiled language
 - ❖ Programs can be written using a text editor or advanced IDE (Integrated Development Environments)
 - ❖ Programs are run on the command line via the java interpreter
 - ❖ Some Java programs can be run on a web browser (Java Applets)

Java

- ❖ Java Provides a lot of libraries for
 - ❖ Reading/writing files
 - ❖ Networking
 - ❖ GUI design
 - ❖ Others
- ❖ Several Java constructs similar to JavaScript constructs

Java Fundamentals

- ❖ Comments

- ❖ Two types

- ❖ Inline - `//` this is a comment until the end of the line

- ❖ Block comment –

- `/*` The following is a comment
that spans several
lines `*/`

Java Fundamentals

- ❖ The basic unit of work is a class
- ❖ A program must have a special function called main
- ❖ Unlike JavaScript Java is a strongly-type language.
- ❖ Variables must be associated with a type
- ❖ Primitive Data Types
 - ❖ int → integer
 - ❖ float/double → floating-point
 - ❖ char
- ❖ Output
 - ❖ System.out.println
 - ❖ JOptionPane.showMessageDialog
- ❖ Example: Basics.java

Java Fundamentals

- ❖ Input
 - ❖ `JOptionPane.showInputDialog`
- ❖ Transforming string into number:
 - ❖ `Integer.parseInt`
 - ❖ `Double.parseDouble`
- ❖ Example: `Input.java`
- ❖ Operators
 - ❖ `<`, `>`, `<=`, `>=`, `!=`, `&&`, `||`
 - ❖ `=`, `+=`, `-=`, `/=`, `*=`

Java Fundamentals

- ❖ Conditionals
 - ❖ If, if else, cascaded if statements
- ❖ Iterations
 - ❖ while
 - ❖ do while
 - ❖ for loops
- ❖ Example: CondIteration.java
- ❖ break and switch statements as in JavaScript

Java Fundamentals

- ❖ Functions (methods)

- ❖ General format

returnType functionName(parameter list) { body }

- ❖ Example: Functions.java

- ❖ Arrays: Example: Arrays.java