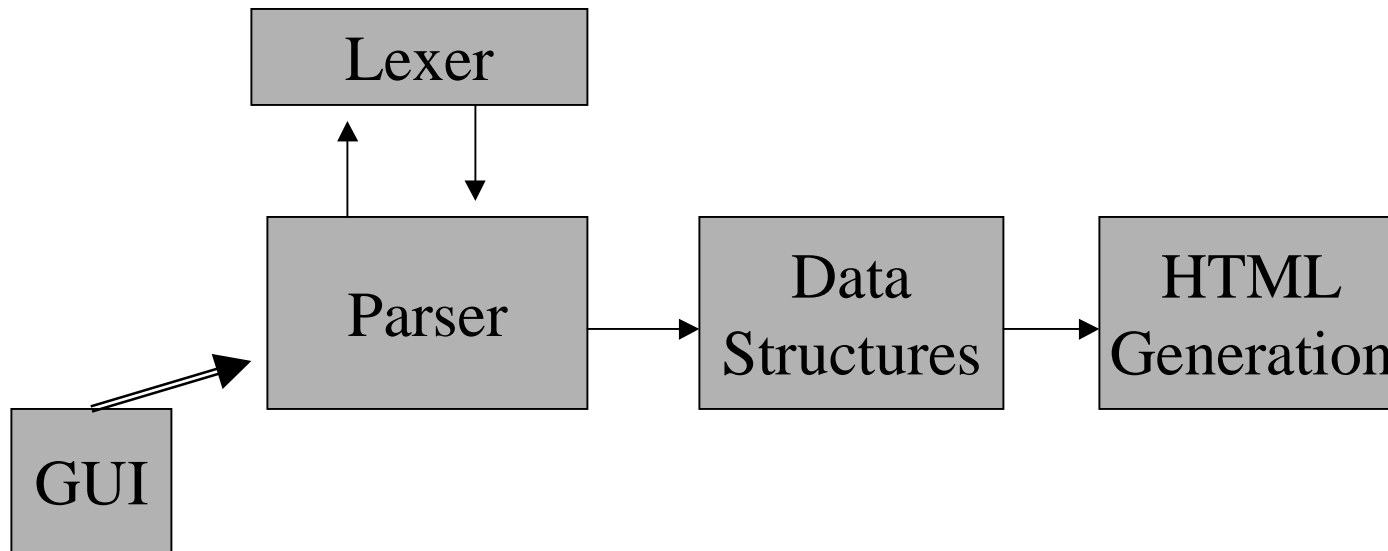
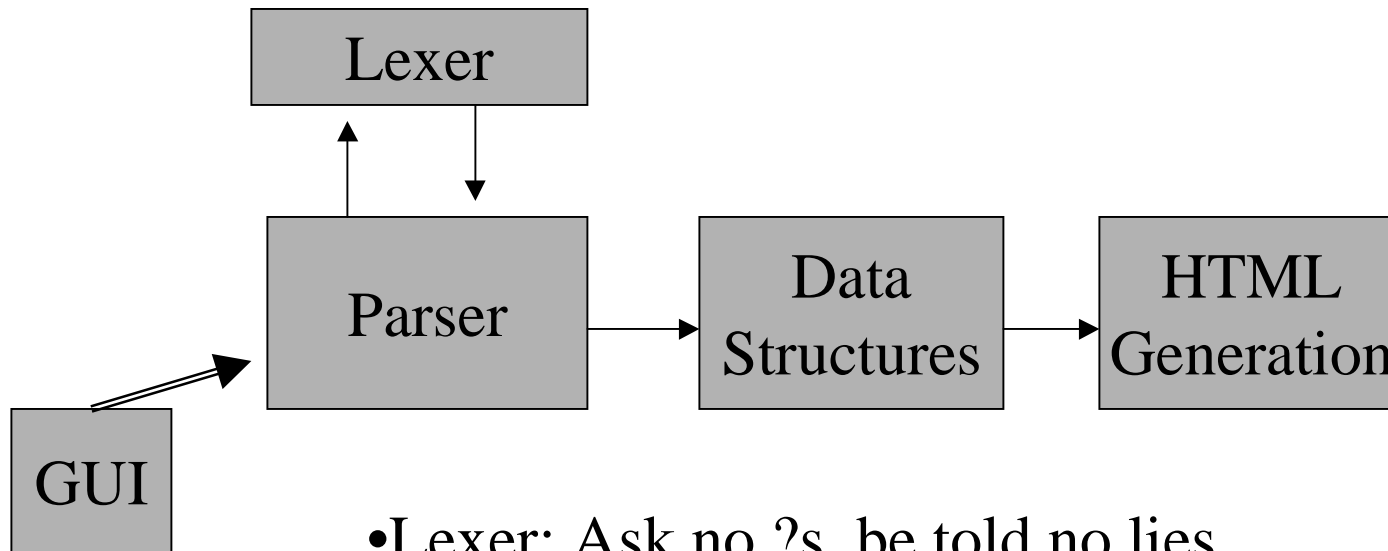


# JavaDUCK -- The Big Picture



# JavaDUCK -- The Big Picture



- Lexer: Ask no ?s, be told no lies
- Lexer/Parser: Recitation 9 + Tokentype.java
- Parser: Handout and Next Topic
- Data Structures: CS211-- Show us you learned!
- HTML Generation: Recitation 8 + data structures

# Grammars -- Just Funny Symbols

As an example, Variable Declarations:

```
[public | protected | private] [static] [final]  
    TYPE VAR_NAME [, VAR_NAME1]*;
```

- [ . . . ] means optional
- a | b means a or b
- [ . . . ] \* means any number of

Yes:

- int a;
- protected static final Foo bar;
- private Quack duck1, duck2, duck3;

No:

- final static int b;
- public Foo, bar;
- private a b, c

# Parsing -- What could be Next?

```
[public | protected | private] [static] [final]  
    TYPE VAR_NAME [, VAR_NAME1]*;
```

```
//Variables  
int a, b, cat;
```

- Put your finger at each place and use the grammar!
- Remember the information as you go with container classes and Vectors.
- (Note: Skipping method bodies is a little different.)

# Working In Stages

- Doing one part of the project at a time:
  - Pain to test
  - Hard to get partial credit
- So “slice” the other way:
  - Generate duckumentation for larger and larger grammars
  - See handout

# Pesky Details

- Correction: Need not make documentClass method static (and better style not to)
- throws IOException
- Addition: Lexer eats comments for you (except //Variables and //Methods), so don't worry about them
- Submission guidelines may change -- we'll let you know.
- *Be a Golden Duck -- Prizes TBA*