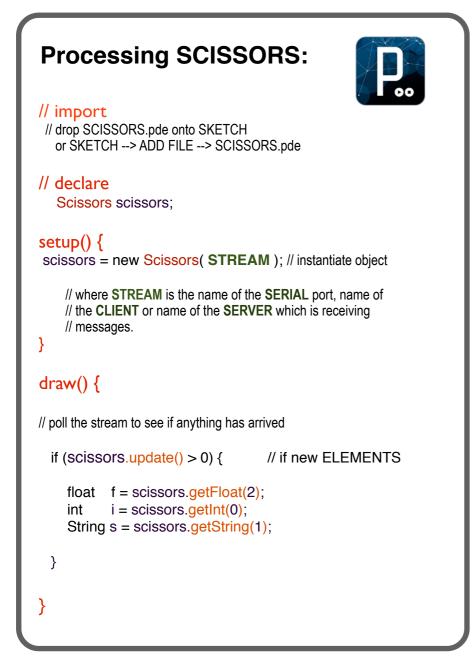
## SCISSORS parse MESSAGES

## Concept:

Individual ELEMENTS of a PACKAGED MESSAGE can be parsed (extracted) using SCISSORS. MESSAGES must be packed with GLUE. ELEMENTS are extracted by *index* and can be *accessed out of order*. To retrieve an ELEMENT, you must know its index and type (integers, floats or Strings). Versions of SCISSORS are available for Processing and Arduino.

Arduino SCISSORS is a LIBRARY and must be in the ~/Documents/Arduino/libraries folder (OSX). Processing SCISSORS is a CLASS, just drop it on your open sketch. You can find a copy of SCISSORS in MPM503\_code/utilityClasses/Scissors.pde

## Code:



```
Arduino SCISSORS:
// import
#include <Scissors.h>
                                          COMPARE:
                                          Arduino and Processing
                                          handle this differently.
// declare
Scissors scissors:
                                                            COMPARE:
setup() {
                                                            Arduino and Processing
 scissors.begin(BAUD); // STREAM == SERIAL
                                                            handle this differently.
  // must attach SCISSORS to a STREAM --> in ARDUINO
  // SCISSORS ALSO starts the STREAM. As STREAM == the
  // SERIAL PORT -- you set BAUD when you begin SCISSORS
loop() {
// poll the stream to see if anything has arrived
  if (scissors.update() > 0) {
                                 // if new ELEMENTS
    float f = scissors.getFloat(2);
                                                      Can retrieve out
         i = scissors.getInt(0);
                                                      of order.
    String s = scissors.getString(1);
```

