

Homework 5, due midnight Wednesday May 2

Full electronic submission due then, paper version due Thursday in class). Ten percent late penalty immediately, and for each following 24 hours.

Working together

- A&S 3.7

Do not submit problems in the above section.

Working alone: for submission

You may **talk** with another student and **share ideas** with another student for these problems, but you MAY NOT look at another student's answers or code for any reason (not even debugging - but use the interpreter!). You may of course discuss anything with the TA or professor.

Pay special attention to what is required. If the question asks for drawings, process illustrations, answers, descriptions, etc., be sure to provide those things.

1. Read section 3.1.3. It is important.
2. AS&S 3.3, 3.2
3. Read section 3.2.4
4. Do the practice problems first, then draw the environment diagram for this code. Draw the frames as shown on the following pages (this makes grading easier, so do it or lose points).

```
(define (w a)
  (define (dispatch msg)
    (if (eq? msg 'go) a 'error))
  dispatch)
```

```
(define a 7)
```

```
(define t (w 10))
```

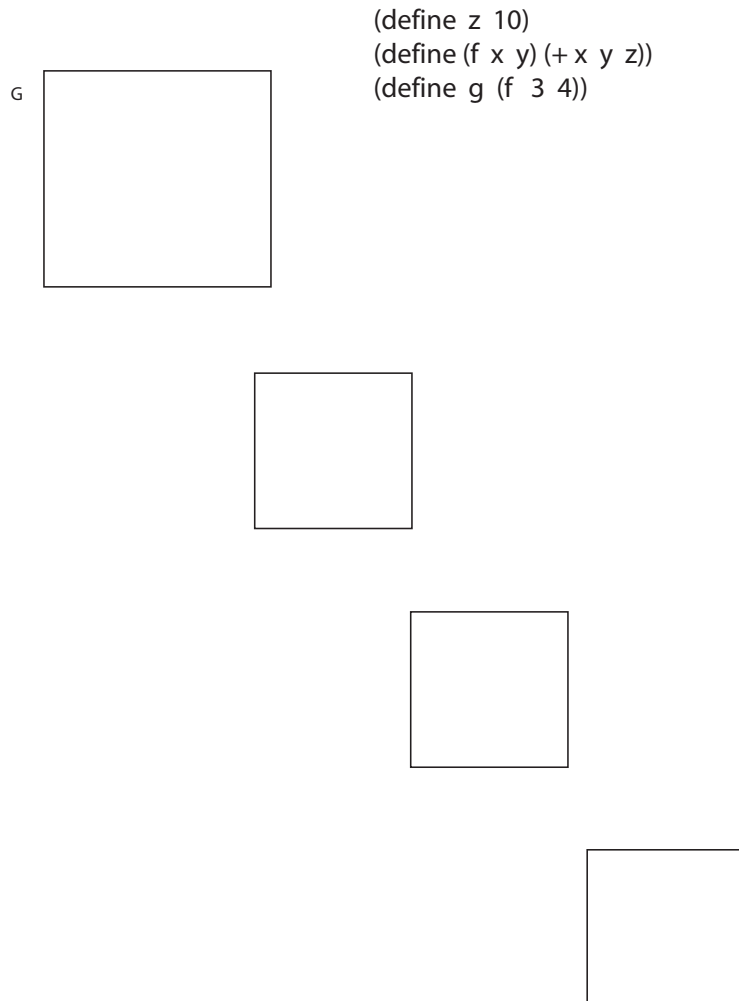
```
(set! a (t 'go))
```

5. AS&S 3.10

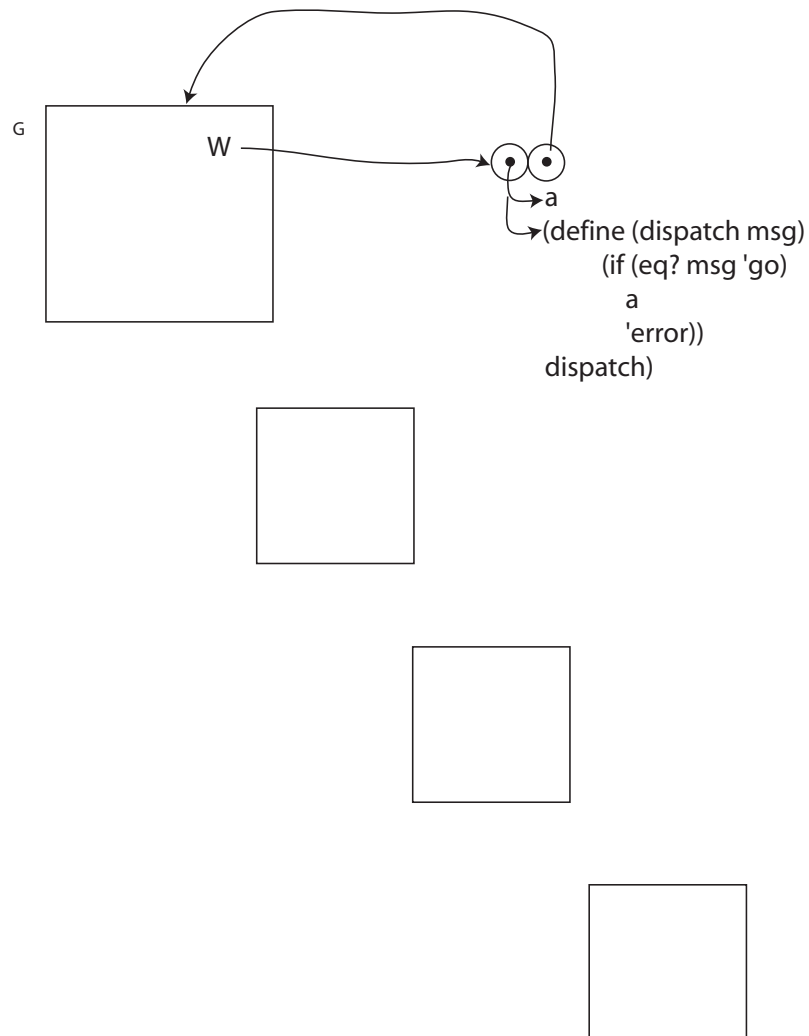
Working together part II

Do the exercises on the following pages and check your answers with other students. Do not submit these.

6. ¶7 Evaluate the three expressions shown and fill in the diagram. Only use frames provided (you may not need all of them).



7. ¶7 Evaluate `(define t (w 10))` to fill in the diagram. Only use frames provided (you may not need all of them).



8. ¶7 Evaluate `(define b (a 5 7))` to fill in the diagram. Only use frames provided (you may not need all of them).

