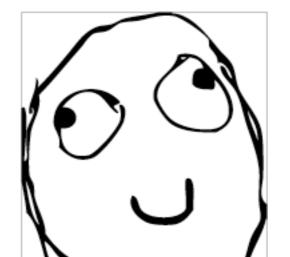
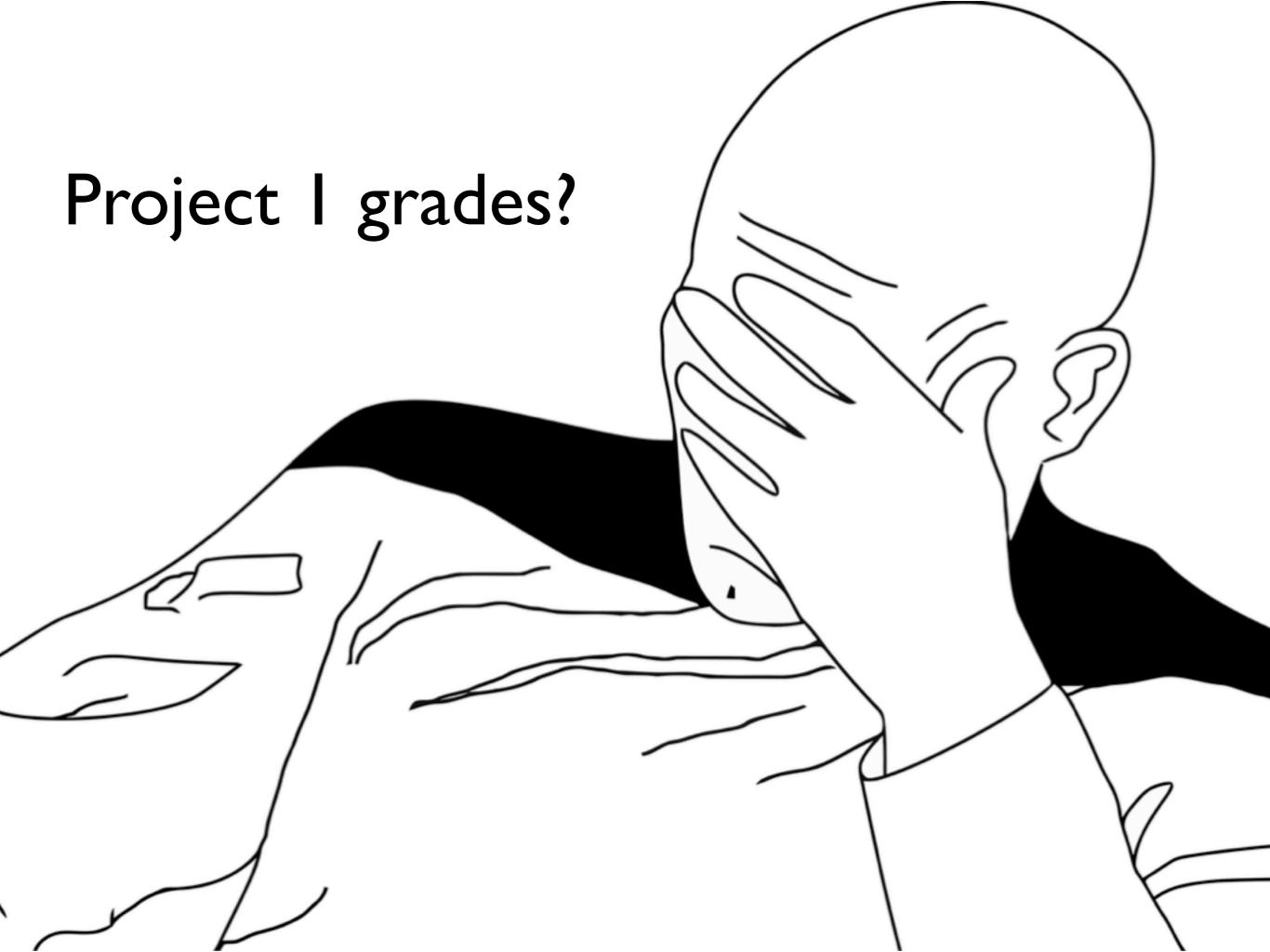
derp

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derivative parsing

derivative parsing





Project 2

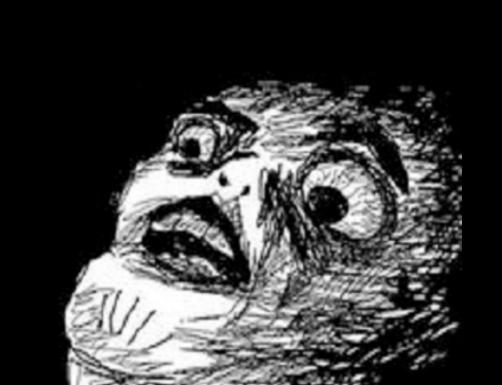
Project 2



How to start?

How to start?

\$ emacs pyparse.rkt



\$ emacs derivative-parsers.rkt



"What is this sourcery!?"



Step 1: Read the assignment

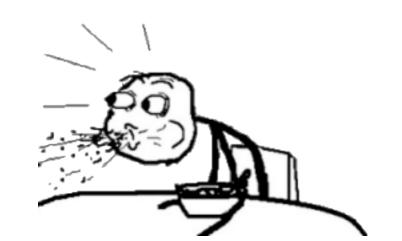
Step 1: Read the assignment



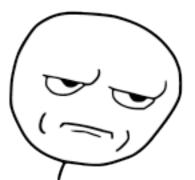
Step 2: Download stub



Step 3: make; make parse



Step 4: "Just add -->"



Defining languages

(lang lang)

(parse parser stream)

Language forms

(empty)

(eps)

(eps value)

(? predicate class)

string number boolean

lit

(literal->language lit)

Examples

Regular forms

(or lang...)

(seq lang ...)

```
(seq* lang...)
```

(seq! qqlang...)

Examples

(rep lang)

(rep+ lang)

Examples

(opt lang)

(opt lang def)

Reductions

(red lang proc)

(--> lang proc)

(@--> lang proc)

```
(\text{red } lang \ (\lambda t)) (\text{apply } proc t)
```

(\$--> lang exp ...)

```
(begin
 (define $$ ...)
 (define ($ n) ...)
  exp ...)
```

```
(>--> lang case ...)
```

```
(--> lang (\lambda (t)
(match t
case ...))
```

(car lang)

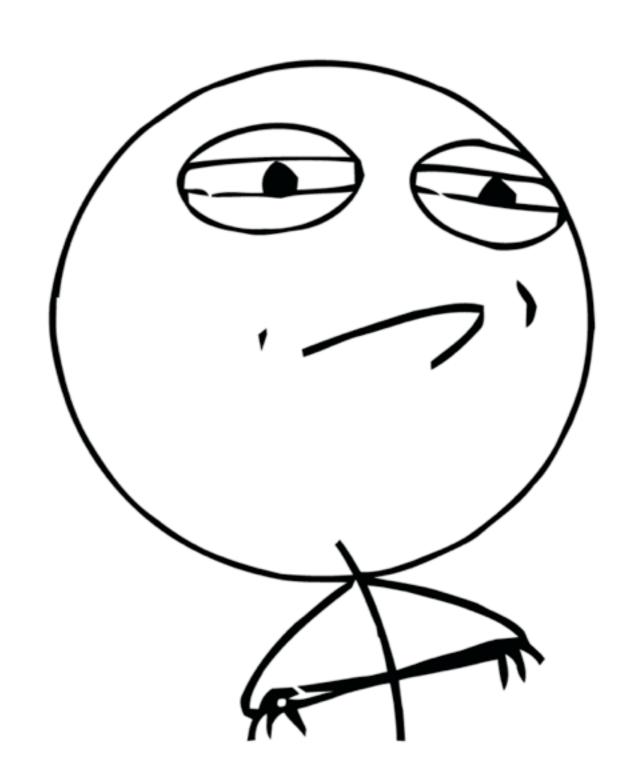
```
(--> lang (\lambda (t)) (car t))
```

Grammars

```
(grammar [nonterm lang] ... start)
```

```
(grammar-from-file start filename)
```

Python in derp



Questions