

Draft 2

def preprocess(source):

final = ""

string_type = ""

escaped = False

SSL-needed = False

for char in source:

① if char in STRING_CHARS:

if string_type == char:

if escaped:

escaped = False

else:

string_type = None

Indent → elif ~~else~~ is string_type == "\":

if escaped:

escaped = False

outdent ← else:

string_type = char

~~else:~~

elif char == "\":

if escaped: Escaped = False

else: escaped = True

<< ... | ... >>
↑ ↑
Body Format

Body
↳ sccs only. No vars or other chars

As

Format

- ↳ List of expressions
- ↳ keywords ^{and vars} treated as standard chars
- ↳ only standard strings remain
- ↳ a keyword
- ↳ Escaping allowed

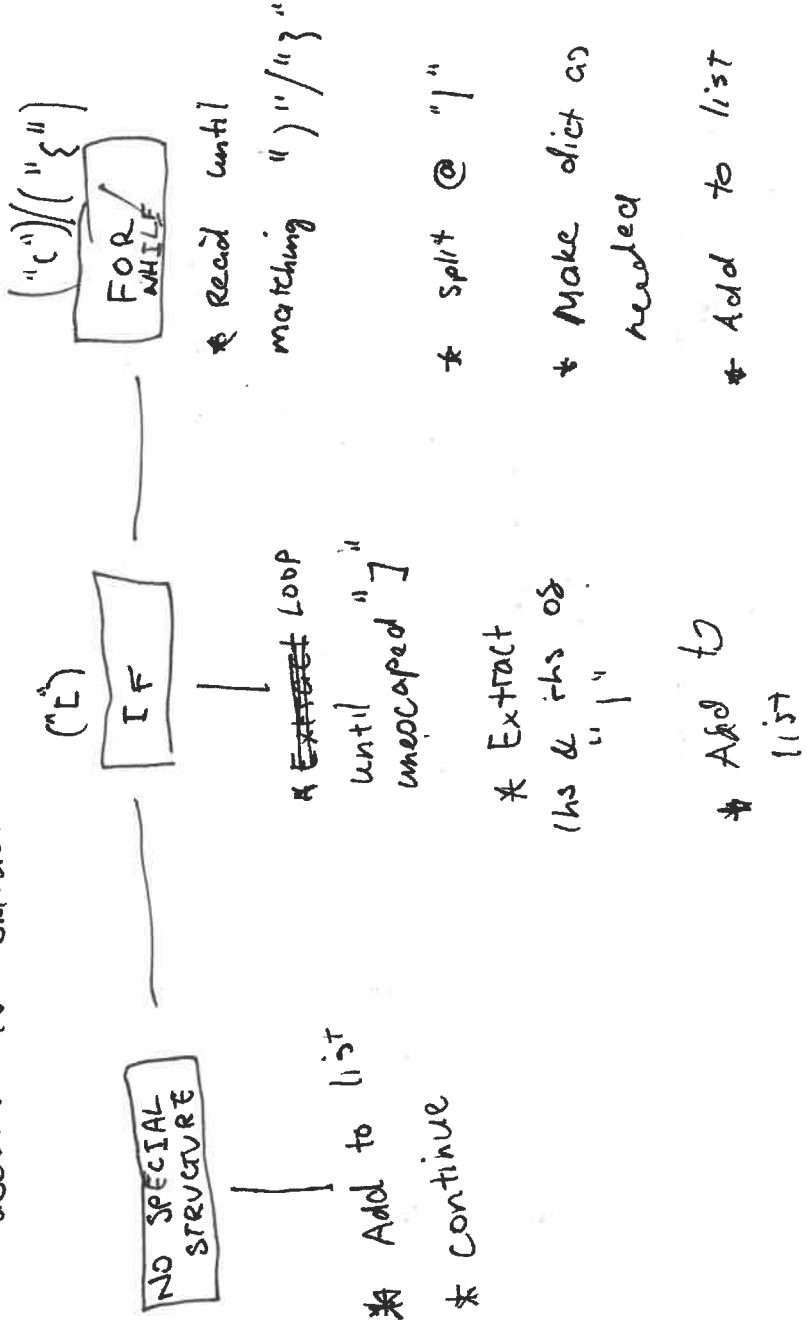
<< sscs | 'hi' >> → ss hi ss

```

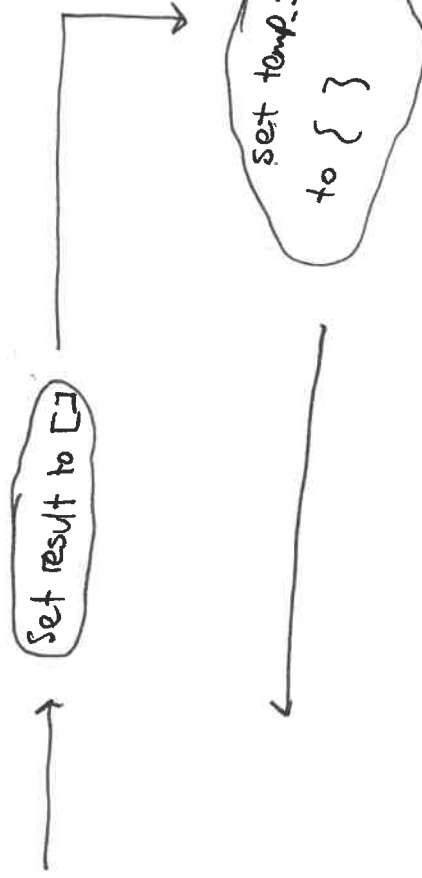
{
  name: . . .
  data: . . .
}

```

- * list of structures
- * store current section of data
- * temporary list of dictionaries
- * data dictionary
- * subcalls to extract



Function Extract
→ Source



Function Extract(source)

↳ Result = []; escaped = False

Temp_struct = {}; temp = ""

structures = []

For char in source:

 If structures is empty:

 If char in "[{(@" and not escaped:

 structures.append(char)

 Else:

 Results.append({name: "cmd", data: char})

 Else, if char matches opening bracket at Pos -1 in struct:

 structures.pop()

 If char == "}" :

 lhs, rhs =

~~S1 = "Hello world"~~

S1 = Hello S2 = world Goal: "Hello, world!"

Uncompressed :

"Hello, world!" → 15 (14 a)

Compressed, spaceless:

"S1, S2!" → 11 (10 a)

Compressed, spaceful:

Impossible (no punctuation)

Compressed, special, structure:

«S1S2!» 9 (8 a)

Compressed, special, constants

~~«S1S2!»~~

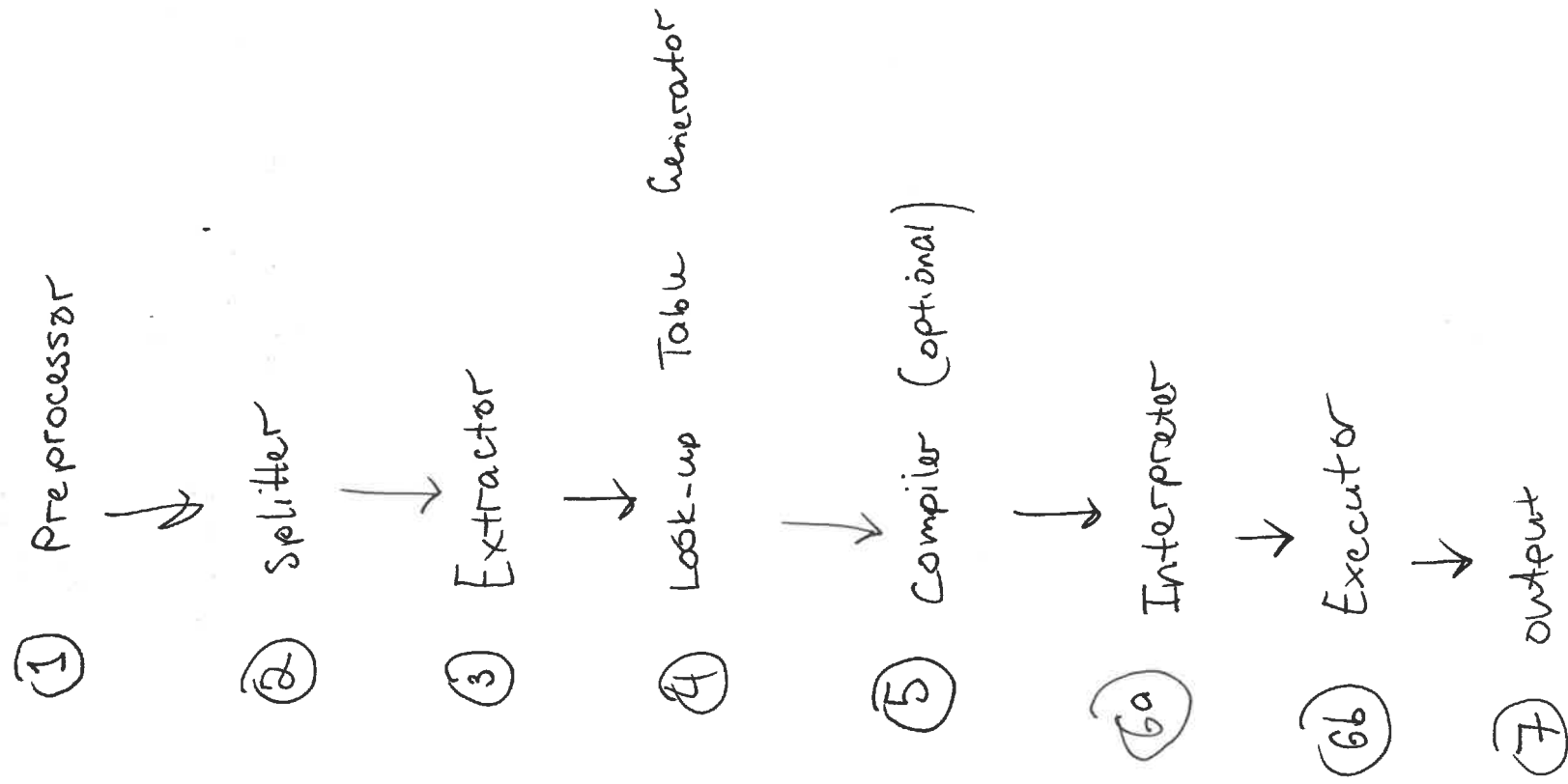
«S1S2!» «S1, S2!» 10 (9 a)

Spaces & SCS

'abc;def;' $\xrightarrow{\text{or}}$ abc def
 $\xrightarrow{\text{or}}$ abc def

'abc;d' $\xrightarrow{\text{or}}$ abc d
 $\xrightarrow{\text{or}}$ abcd

7 Steps



hello, world!
s1 s2

s1, s2! → 11

q s1; s2; q → 8 (but no punctuation)

~~ssss~~

ssss! → 10

ssss! → 8 chars!

Spaceful Strings

9 contents 9

like normal spaceless strings, but

spaces are placed between

secs :

Hello World!

`s1; sa;`

9 s1; sa; 9

1

hmm

→ 1 byte
shorter

Spaceful Special Compressed Strings

Delimited by <<

Usage:

<< sccs | Separators <<

✓
any series of sccs (no i)
↓
each separator is either a single char, or a variable and is placed after

Examples the corresponding scc.

s1 = Hello s2 = world s3 = Bottles s4 = bottle
%a = s %b = , %c = " "

<< s1s2, ! << → Hello, world!

<< s1s2[%b]! << → " " " "

<< s3 << → Bottles

<< s4 | %a << → Bottles

String types

'...' → standard/as-is / spaceless

's1;', sa;' → s1, sa!

9...9 → standard/spaceful

's1;', sa;' s1, sa!

'...' → SCC only / spaceless

's1sa' → s1sa

'' → SCC only / spaceful

'' s1sa → s1 sa