

Goal: output a colored accurate picture
of a crochet pattern.

Step 1: get input pattern by call

Step 2: Read pattern by row

Step 3: output picture

Step 1: ① how input pattern?

① type each row

② read from file

↳ what type of file?

(③ gd)

④ Gauge?

↳ consider gauge?

S

⑤ Store pattern

↳ as a file?

↳ as an array?

↳ as a other?

Step 2: ⑥ Read by line

↳ depends on how stored

⑦ correspond to stitches

↳ how?

↳ properties of stitches

↳ what about when influenced by
other rows?

Step 3: ⑧ Output picture

↳ pdf?

↳ picture?

↳ format?

Considerations

↳ hook size + yarn relationship = later.

Important phrases:

(1) #^{nth/rd} from hook

(2) SKIP next —

(3) — in next —

(4) *

(5) C

(6) [

(7) E

(8) >

(9)]

(10) 3

(11) repeat from —

(12) in last

(13) TURN.

(14) ch - space

(15) ,

(16) ;

(17) :

(18) .

(19) Row #: ;

stitches:

ch, sc, hdc, dc, tc etc

To Do:

- (1) Read simple patterns
- (2) a. look @ common phrases + symbols
b. look @ format
- (2) Study most common stitches
 - A. figure out what the base stitches are for stitches
 - B. which need their own special def
 - C. which are composites of other stitches

- (3) Determine what pattern directions will look like

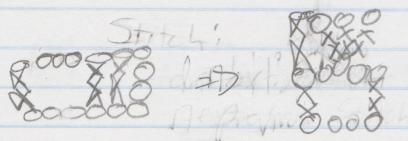
1. Kei

Row 1: ch 3, * (sc, ch 3) 3 times

or will I do: repeat to end or do 400 times. (or both)

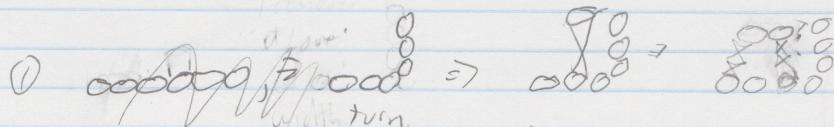
ch figure out a unit of measure means

Properties of a stitch?



length width = x

bottom most right position ✓
top most right position (?)



- (4) Measure out stitches. (do sample stitches.
gauge swatch as well.)

- ② do a swatch of 10 by 10 stitches of each type of stitch
- ③ measure difference in size & get ratio of length & width for each stitch to a base stitch
- ④ figure out width & length (%) of chain.
- ⑤ repeat 1-3 for a different size string & appropriate sized hook until bored
(optional) chart to
- ⑥ check to see if ratio is the same for all types of string
- * ⑦ create a stitch unit

variables

Stitch? Abstract? Interface? Superclass?

- { width = final int in stitch units
- { length = final int
- { positionBottomLeft(x,y) = Point
- { positionTopLeft(x,y) = Point,
- { type = " " String boolean ...
- { positionBottomRight(x,y)
- { positionTopRight(x,y)

(?) array of Points { positionTopRight, positionTopLeft, positionBottomRight, positionBottomLeft }

methods:

Point	Set New PositionBottomLeft (Point bottom)
Point	Set New PositionTopLeft (Point top)
Point	Set New Position (Point old, Point newpoint)
Point	get BottomLeft
Point	get BottomRight
Point	get Top Left
Point	get Top Right.
	array Point get All Positions

ex: 5dc bobble

Class Bobble

```
final String type = "bobble" // maybe instead just a class check
Class Bobble (int inputNumStitches, String stitchType, Point topLeft,
              Point bottomLeft)
```

```
final int numStitches = inputNumStitches;
```