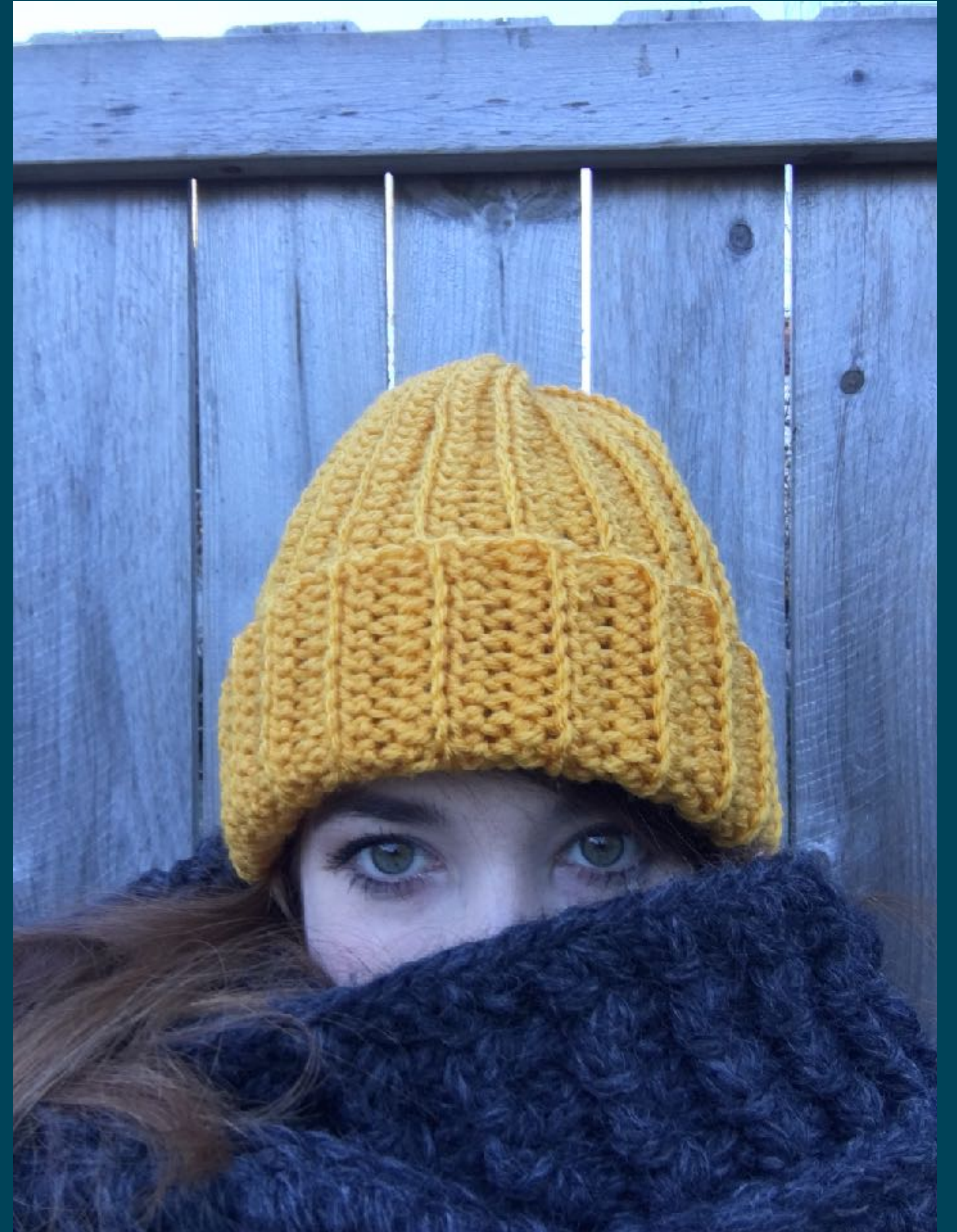




Crochet, CODE, Craft

MERCEDES BERNARD

Software engineer by day,
crafter by night



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Crochet



Old Fashioned

Photo credit: Alex Proimos



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Unrelated



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Craft

noun

**A pastime or profession that requires skilled work,
sophisticated technique, and science upon knowledge.**



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CODE AS *Craft*

using A, and a magic loop.

Row 1 (WS): Ch 7, (counts as 1 tr and 3 ch), (dc, ch 3, 2 tr, ch 3, dc, ch 3, tr) all

Row 2: Ch 1, sc in first tr, shell (see **Special Stitches**) in next dc, sc in each of
st st, turn.

Row 3: Ch 7 (counts as 1 tr and 3 ch), dc in first sc, ch 3, sc in center CL of shell
(dc, ch 3, tr), turn.

Row 4: Ch 1, sc in first tr, shell in next dc, * sc in next sc, shell in next dc; rep f

ext dc, rep between * and * to end, sc in 4th ch of beg ch-7 of previous row, c

Row 5: Ch 7 (counts as 1 tr and 3 ch), * dc in sc, ch 3, sc in center CL of shell, c

om * to 2 center sc, (dc, ch 3, tr) in next sc, (tr, ch 3, dc) in next sc, ch 3, sc in

shell, ch 3, rep between * and * to last sc, (dc, ch 3, tr) turn.

ep Rows 4 and 5 only, changing colors every 2 rows, until yarn is used up or p

Pattern

```
parsed_results = []

obj.each do |line|
  next unless validate(line)
  parsed_results << parse_line(line)
end

parsed_results
end

def parse_line(line)
  result = {}

  RESPONSE_FIELDS.each do |f|
    config_data = @config["#{f}_indices"]
    parsed_value = line[config_data.start..config_data.end]
    result[f.to_sym] = parsed_value
  end

  result
end

def validate(line)
  if line.nil? || line.length < @config.length
    Rails.logger.error "invalid SSA response: #{line}"
    false
  else
    true
  end
end

end
```

PROGRAM



Pattern Designer



PROGRAMMER



Maker



HARDWARE

THE BEST INSTRUCTIONS
ARE *Simple* AND *Elegant*

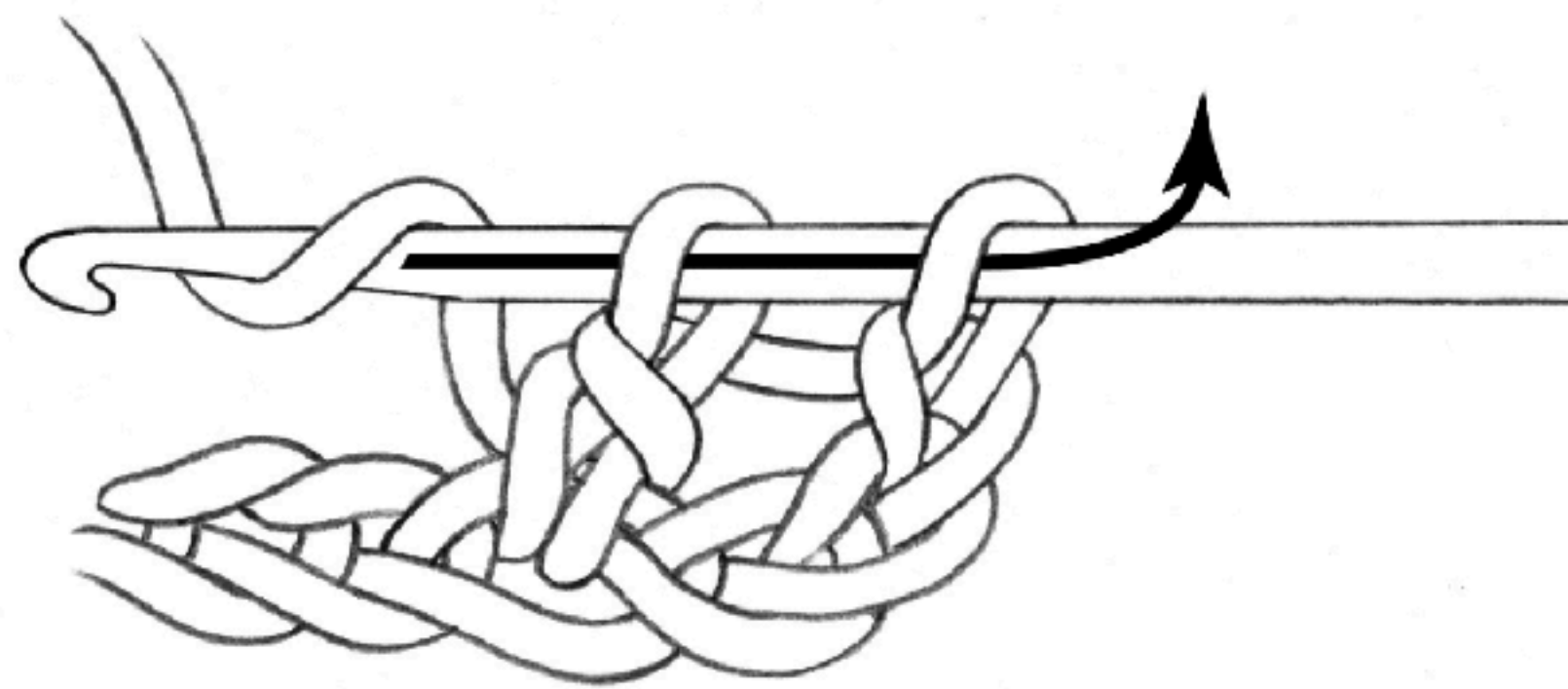


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Physical
**MANIFESTATION
OF AN
ALGORITHM**

Yarn over, draw yarn through 2 loops on hook (2 loops remain on hook).



```
def get_stitches
  parser = @parser_factory.get_row_parser(@instructions
    [*parser.parse]
  end
```


Row 5: Ch 7 (counts as 1 tr and 3 ch), * dc in sc, ch 3, sc in center CL of shell, ch 3; rep from * to 2 center sc, (dc, ch 3, tr) in next sc, (tr, ch 3, dc) in next sc, ch 3, sc in center CL of shell, ch 3, rep between * and * to last sc, (dc, ch 3, tr), turn.

```
def make
  instructions = []

  @repeat.times { |_i| instructions << @children.map(&:make).join(" ") }

  instructions.join(" ")
end
```


Row 4: Ch 1, sc in first tr, shell in next dc, * sc in next sc, shell in next dc; rep from * to 2 center tr

next dc, rep between * and * to end, sc in 4th ch of beg ch-7 of previous row, changing to next color

Row 5: Ch 7 (counts as 1 tr and 3 ch), * dc in sc, ch 3, sc in center CL of shell, ch 3; rep

from * to 2 center sc, (dc, ch 3, tr) in next sc, (tr, ch 3, dc) in next sc, ch 3, sc in center CL

of shell, ch 3, rep between * and * to last sc, (dc, ch 3, tr), turn.

Rep Rows 4 and 5 only, changing colors every 2 rows, until yarn is used up or piece measures desired

```
class Row < Instruction
  def initialize(instructions)
    @instructions = instructions
    @parser_factory = ParserFactory.new
  end

  def make
    @stitches ||= get_stitches
    @stitches.map(&:make).join(" ")
  end

  def get_stitches
    parser = @parser_factory.get_row_parser(@instructions)
    [*parser.parse]
  end
end
```


Process



Design & ARCHITECTURE



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CHOOSING THE *tools*





Reuse

Frogging

REFACTORING

Pattern testers

QA/USER TESTING

Code IS Craft



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WHAT CAN WE *learn*



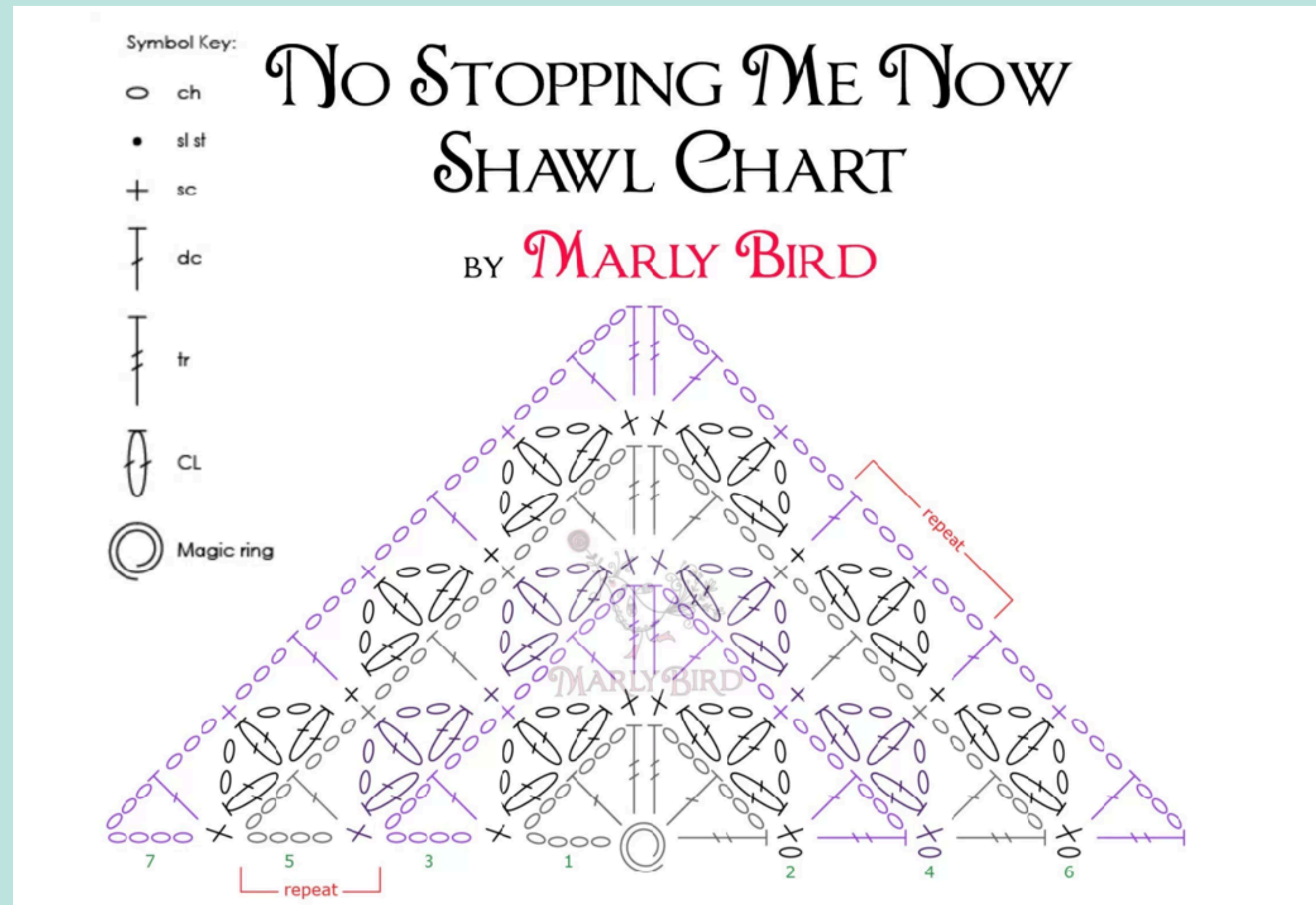
CLARIFYING *shared* LANGUAGE



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Multiple MODES OF COMMUNICATION





Break THE RULES



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Welcoming COMMUNITY



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Multidisciplinary **APPROACH**



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