Double-knit Topologist’s Hat

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Abbreviations

CC  contrast colour.
MC  main colour.
k  knit.
p  purl.
st(s)  stitch(es).
DK  double-knit (k1 p1 in opposite colours, first stitch will be specified).
k2tog  knit two sts together.

Getting Started

Throughout, MC will refer to white, CC to grey (in diagrams). Using waste yarn, make a provisional cast-on, for 84 sts. Using MC, k 2 rounds. Change to CC, and k 2 rounds. Pull out provisional and rearrange stitches so that the first (where the yarn tail is currently) is in CC, and they alternate thereafter. DK 1 row in CC. Should end with CC (white) facing. For more information on a double-knit cast-on in the round, check http://www.ms.unimelb.edu.au/ paul/knitting.html.

Pattern

Work pattern where a white square is DK 1 MC (i.e. k 1 red, p 1 grey) and a black square is DK 1 CC (i.e. k 1 grey, p 1 red). Also, a decrease (indicated on the pattern by ⬇️) is knit as follows: rearrange sts so that there are two front sts, followed by 2 back sts. Then k2tog, slip 2 sts (knitwise) separately, place back on left needle and p2tog through back loop (this is less complicated than it sounds, I hope to add pictures at some stage to http://www.ms.unimelb.edu.au/ paul/knitting.html; it should look like a k2tog on the front, and a ssk on the back).

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Figure 1: DK Hat Pattern.
Finishing

Using CC, kitchener stitch closed the inside of the hat, and weave in the end (there are 6 stitches remaining, simply close along a short edge). Then kitchener closed the outside with MC, weave in the end to the inside, and hat is complete.