Milo - The Robot

Designed by Mariana
Crocheted by Mónica

AMI TWINS
DESIGN

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Presentation

We are a duo of very different twins living in Portugal. Mariana comes up with the design, and Mónica turns it into an amigurumi. Crochet is a world of possibilities.

This is our very first pattern and we want it to be a quality standard for the future. If you have any questions, feel free to contact us. We'd love to have feedback about our work.
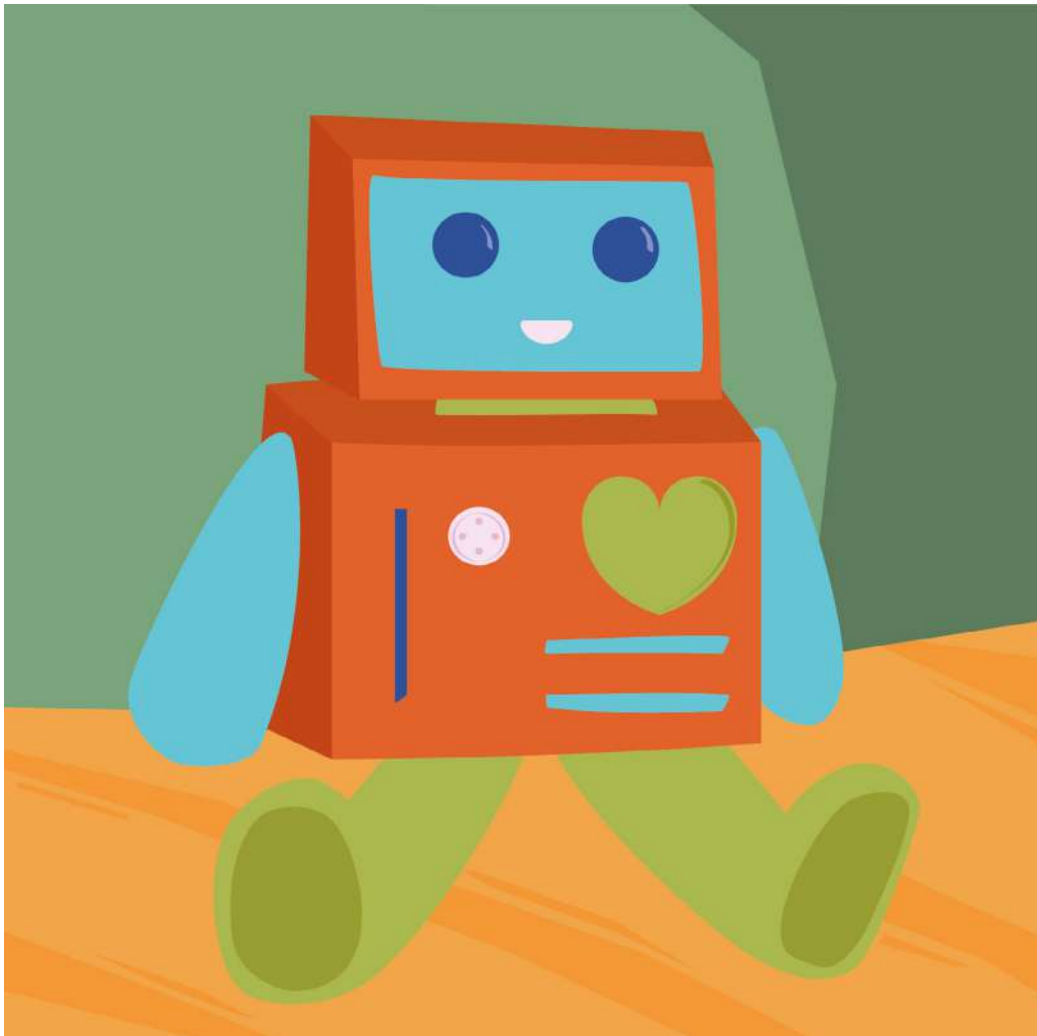
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Credits

Character's design by Mariana Martins

Character's pattern by Mónica Martins

Photography Mariana by Martins and Mónica Martins

Photography edition by Mariana Martins

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Check their Instagram accounts ;)

Techniques used

To do this project, you must know how to:
- work in turning rows
- work in circular crochet (in spiral)
- work in back loop and front loop only
- do surface crochet (use slip stitch to add details to the body's finished piece)

Check the terminology for the used stitches.

Terminology (US)

Ch	chain
Sl st	slip stitch
Sc	single crochet
Inc	increase (2 sc in the same stitch)
Inv dec	invisible decrease (work 1 sc in two stitches together, in front loops only)
Hdc	half double crochet
Dc	double crochet
Tr	treble crochet/ triple crochet
*	followed by the number of times you need to repeat a certain instruction
( )	you should repeat the instructions inside the brackets as many times as indicated

Materials

If done with the suggested yarn Milo is about 24 cm (9,5 inches) tall and 10 cm (4 inches) wide, when measuring the torso. As with any amigurumi, you can use any yarn you like (with corresponding hook size), but have in mind that that will affect the size of the amigurumi.
The materials you need are:
- DK 100% cotton yarn*
- 3 mm crochet hook (D=3,125mm)
- Stuffing
- Sewing needle
- Stitch markers
- 1 button for decorating the body (we used one with 15mm of diameter)**

* Portuguese yarn from Casa Justo - Tricots Brancal. 235 m (256 yds) per 100 g (3,5 oz), approximately. It is a size 3 (DK, Light Worsted) by the Standard Yarn Weight System.

** If you are doing this for a small child (3 and under) please consider skipping the button, as it might come out and become a choking hazard.

Color Scheme

We used three main colours and three secundary ones for our Milo (in order):

Orange for the head and body

Light blue for the head plate, arms and plate details

Light green for the legs, neck and heart

Dark blue for the eyes and plate details

Light pink for the mouth

White for the eyes' details

When changing any of the three main colours, we advise making the corresponding pieces with the same colour, so the finished Milo has a balanced look.

Head (back, bottom, front and top together)

Work in turning rows, with orange yarn.

Row 1	ch*18 (18). Starting on 2nd loop from hook, sc*17 (17). Ch 1 and turn
Row 2 to 11	sc*17, ch 1 and turn (17)
Row 12	sl st*17, ch 1 and turn (17)
Row 13	sc in each sl st, 17 total, ch 1 and turn (17)
Row 14 to 19	sc*17, ch 1 and turn (17)
Row 20	sl st*17, ch*1 and turn (17)
Row 21	sc in each slip stitch, 17 total, ch 1 and turn (17)
Row 22 to 31	sc*17, ch 1 and turn (17)
Row 32	sl st*17, ch 1 and turn (17)
Row 33	sc in each slip stitch, 17 total, ch 1 and turn (17)
Row 34 to 39	sc*17, ch 1 and turn (17)
Row 40	sl st*17 (17). Don't ch 1 at the end

Images 1 and 2 - The final count only includes the sc, as the chain at the end is for height for the next row

Image 3 - Once in a while, you can check the stitch count to make sure you didn't miss any

Image 4 - Since you'll be working on the sl st next, they should not be too tight.

Images 5 to 7

Image 8

Cut the yarn, leaving a tail long enough to sew both ends of the head. Hide the tail from the beginning on the back of the piece.
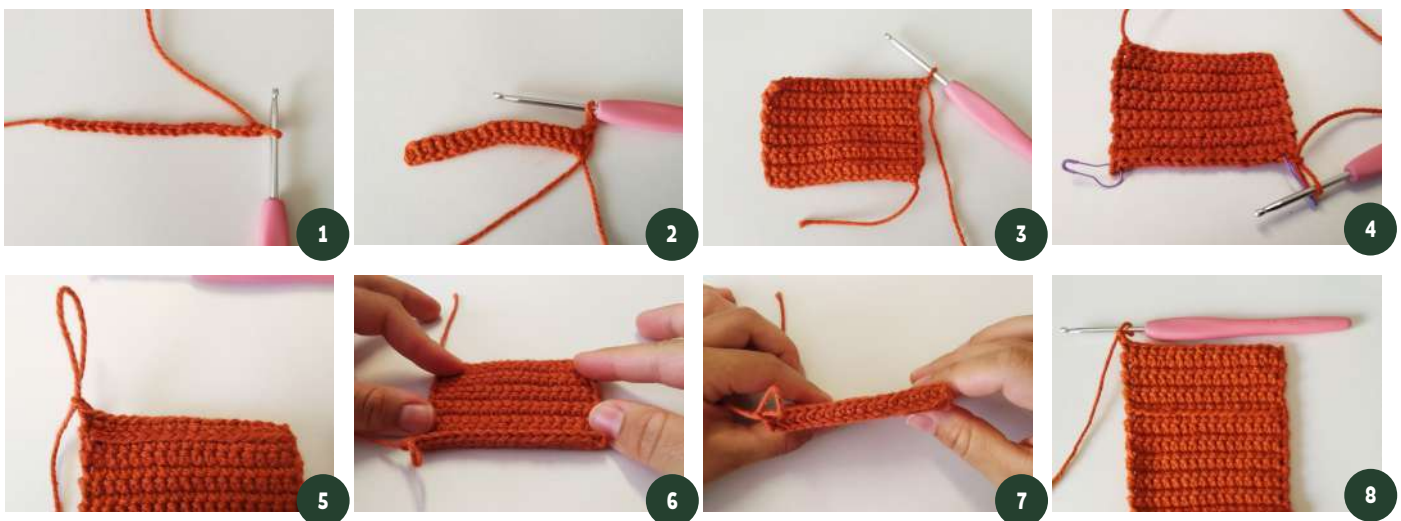
Head sides (make 2)

Work in turning rows, with orange yarn.

Row 1   ch*8 (8). Starting on 2nd loop from
hook, sc*7, ch 1 and turn (7)

Row 2 to 10   sc*7, ch 1 and turn (7)

Row 11   sc*7 (7). Don't chain 1 at the end   **Image 9**

Cut the yarn, leaving 4 to 5 times the perimeter of the piece in yarn for stitching.
Hide the tail from the beginning on the back of the piece.

Head plate

Work in turning rows, with light blue yarn.

Row 1   ch*14 (14). Starting on 2nd loop from
hook, sc*13, ch 1 and turn (13)

Row 2 to 6   sc*13, ch 1 and turn (13)

Row 7   sc*13 (13). Don't ch 1 at the end   **Image 10**

Cut the yarn, leaving a tail long enough to sew the plate flat to the front of the
head. Hide the tail from the beginning on the back of the piece.

Eyes (make 2)

Work in circular crochet (in spiral), with dark blue yarn.

Rnd 1   sc*6 in magic ring (6). Close with sl st   **Image 11**

Cut the yarn, leaving a tail long enough to sew the eyes to the front of the head
plate. Hide the tail from the beginning on the back of the piece, or later when
sewing the eyes.

Neck (make 2)

Work in turning rows, with light green yarn.

Row 1	ch*9 (9). Starting on 2nd loop from hook, sc*8, ch 1 and turn (8)
Row 2 to 3	sc*8, ch 1 and turn (8)
Row 4	sc*8 (8). Don't ch 1 at the end **Image 12**

On one of the pieces, cut the yarn, leaving enough to sew both pieces toghether, and hide the tail from the start. On the other piece, leave enough for sewing both pieces to the head and body, and hide the tail from the beginning on the back.

Body (back, bottom, front and top together)

Work in turning rows, with orange yarn.

Row 1	ch*24. Starting on 2nd loop from hook, sc*23, ch 1 and turn (23)
Row 2 to 17	sc*23, ch 1 and turn (23)
Row 18	sl st*23, ch 1 and turn (23)
Row 19	sc in each sl st, 23 total, ch 1 and turn (23)
Row 20 to 27	sc*23, ch 1 and turn (23)
Row 28	sl st*23, ch 1 and turn (23)
Row 29	sc in each sl st, 23 total, ch 1 and turn (23)
Row 30 to 45	sc*23, ch 1 and turn (23)
Row 46	sl st*23, ch 1 and turn (23)
Row 47	sc in each sl st, 23 total, ch 1 and turn (23)
Row 48 to 55	sc*23, ch 1 and turn (23)
Row 56	sl st*23 (23). Don't ch 1 at the end **Image 13**

The body is made the same way as the head, but bigger. You can refer to the head's images.

Cut the yarn, leaving a tail long enough to sew both ends of the body. Hide the tail from the beginning on the back of the piece.

Body sides (make 2)

Work in turning rows, with orange yarn.

Row 1   ch*10. Starting on 2nd loop from hook, sc*9, ch 1 and turn (9)

Row 2 to 16   sc*9, ch 1 and turn (9)

Row 17   sc*9 (9). Don't ch 1 at the end   **Image 14**

Cut the yarn, leaving 4 to 5 times the perimeter of the piece in yarn for stitching. Hide the tail from the beginning on the back of the piece.

Heart   **Work in circular crochet, with light green yarn.**

Rnd 1   sc*7 in magic circle (7). Close with sl st

We will explain separately what to do in each of the 7 sc from the magic circle.

1st sc   ch*1, dc*2   **Image 15** - Mark the ch with a stitch marker

2nd sc   tr*2, dc*1

3rd sc   hdc*1, sc*1

4th   dc*1, ch*1, sc*1

5th   sc*1, hdc*1

6th   dc*1, tr*2

7th   dc*2

Finish with a sl st, right before the ch marked with the stitch marker. (**Image 16**) Cut the yarn, leaving enough to sew the heart to the front of the body. Pull it behind for a better heart shape. (**Image 17**)

Arms (make 2)

Work in circular crochet (in spiral), with light blue yarn.

Rnd 1	sc*6 in magic circle (6)	
Rnd 2	inc*6 (12)	
Rnd 3	(sc, inc) *6 (18)	
Rnd 4 to 6	sc*18 (18)	**Image 18**
Rnd 7	inv dec*1, sc *16 (17)	
Rnd 8	sc*6, inv dec*1, sc *9 (16)	
Rnd 9	sc*12, inv dec*1, sc*2 (15)	
Rnd 10	sc* 3, inv dec*1, sc *10 (14)	
Rnd 11	sc*6, inv dec*1, sc*6 (13)	
Rnd 12	sc*11, inv dec*1 (12)	**Image 19**

From round 7 to 12, we will slowly decrease the arm. The decreases are spread so that they won't be very noticeable.

Rnd 13 to 18 sc*12 (12)

Rnd 19 sc*2, inv dec*1, sc* 4, inv dec*1, sc*2 (10)

Stuff the arm more firmly at the bottom and less at the top. Try to flatten it so it resembles the image. (**Image 20**)

Rnd 20 Join both ends together with 5 sc. You should work each sc through two sc from rnd 19, as shown in the images. (**Image 20 and 21**)
Cut the yarn, leaving a tail long enough to sew it to the body side.

Legs (make 2)

Work in circular crochet (in spiral), with light green yarn.

Rnd 1   sc*8 in magic circle (8)

Rnd 2   (sc*2, inc*2) *2 (12)

Rnd 3   (sc*2, inc*4) *2 (20)

Rnd 4   sc*5, inc*4, sc*6, inc*4, sl st*1 (28)

Rnd 5   sc*28, on back loop only (28)   **Image 22**

Rnd 6   sl st*1, sc*27 (28)

Rnd 7   sc*4, inv dec*4, sc*9, inv dec*1, sc*5 (23)

Rnd 8   sc*2, inv dec*4, sc*13 (19)

Rnd 9   sc*3, inv dec*1, sc*14 (18)   **Image 23**

Rnd 10 to 22   sc*18 (18)   **Image 24**

Cut the yarn, leaving a tail long enough to sew the piece to the bottom of the leg. Stuff it firmly at the bottom, and less so through the top. You should be able to push the stuffing down in order to better sew the piece.

Assembly

Starting with the large piece from the head, place it as shown in the image (beginning at the bottom and finish at the top). Place the head plate as shown and sew it. **(Image 25)**

Next sew the eyes, going through both the head plate and the front of the head, this way the head piece won't look lose. Now embroider the mouth (we used light pink), giving it a triangular like form. With white yarn, add the detail to the eyes, passing it twice to form the shape. **(Images 26 to 28)**
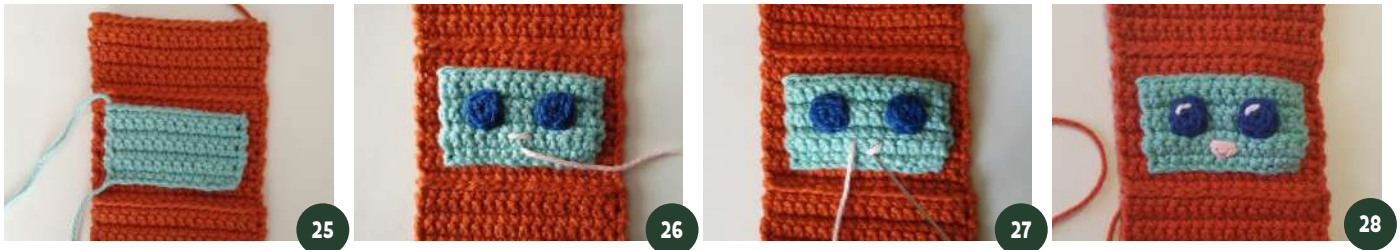

Now you will decorate the front of the body. Place the body piece with the beginning at the bottom and finish at the top, as shown in the picture, and sew the heart in place **(Image 29)**.

Sew the button between the heart and the decorative line from the left, using a yarn colour of your choice (we placed the button a little lower than the top centre of the heart).

Next you will do the decorative lines with slip stitch (surface crochet), going through the piece, as shown in the images. We did one line on the left side, from top to bottom, and two lines at the bottom right, from right to left, one smaller than the other. **(Images 30 and 31)**

Next, attach the arms to the side plates, making sure they match the front plate **(Image 29)**. Sew the arms through the loops of the 5 sc you did to join the sides, matching it to the first top depression from the body sides. **(Image 32)**
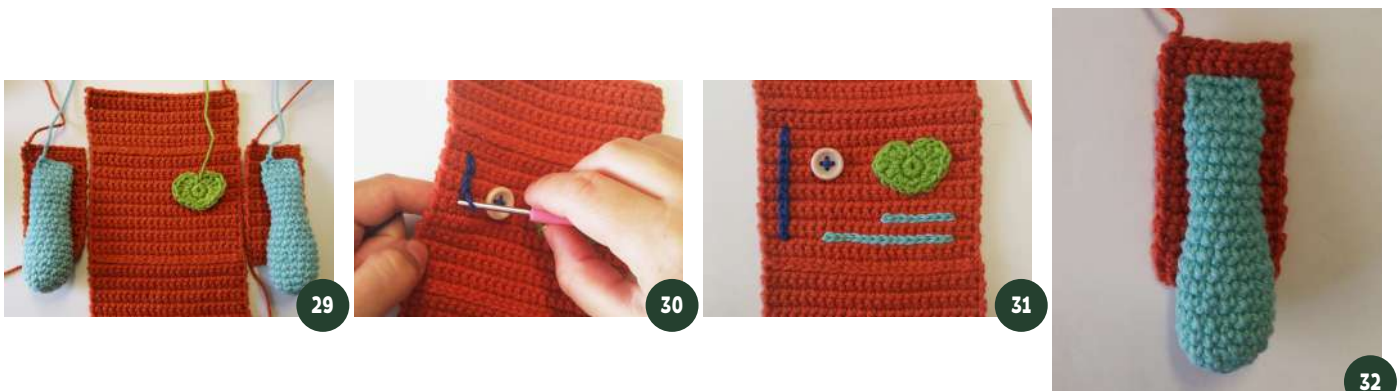
To attach the neck, you first need to join both pieces, in contrary positions, so the height will be even **(Image 33)**. Join them with a few stitches through the centre of both pieces. Next you need to centre the neck with the head and the body, in a way that both the front from the head as the front from the body

face the same way **(Image 34)**. You will be going around the neck's borderline, passing your needle back and forth between the head, the neck, and the body. **(Images 35 and 36)**
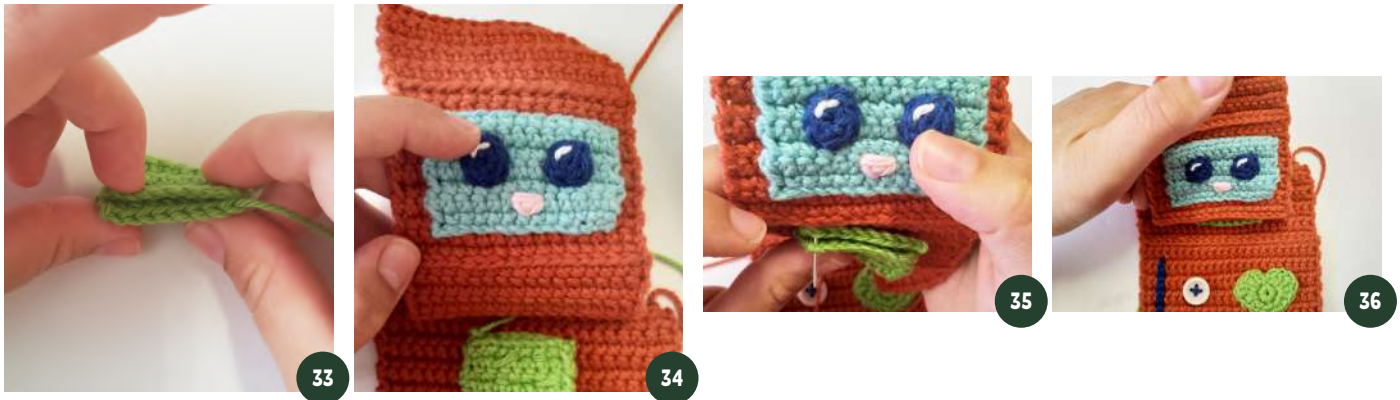
Now stuff the legs and attach them to the body, below the front, with the feet facing forward. **(Image 37)**
Next comes the joining of both the head and the body ends. To maintain the sharp corners, you will need to sew the ends together from the back. It is easier than it looks. All you need to do is join both ends from the back of the piece, in a way that you can turn it right after. Start with the head. With your sewing needle, go through the slip stitch from the last round and the foundation chain from the first. **(Image 38)**. After sewing, you need to turn the head the right way. **(Images 39 and 40)** After the head is done, you can do the same with the body. **(Image 41)**
Video - how to turn the body
Sew one of the head's side plates to it, making sure it matches the front. **(Image 42)** Sew half of the other side plate. Stuff the head, enough for it to maintain the shape, but not too much that it will lose the flat shape. **(Image 43)** After stuffing, finish sewing.
Proceed the same way with the body, attaching the side plates, with the arms already sewn on.

And your Milo the Robot is complete!

If you are sharing a picture of the finished amigurumi on social media, tag @ami_twins on Instagram or refer Ami Twins Design as the creators of the pattern. Thank you!