

76297 Dancing Groot

Set adapted by Alex Charbonneau and tested by Natalie Charbonneau.

LEGO® Marvel Dancing Groot (76297) is a buildable Guardians of the Galaxy toy with an interactive dancing function. It makes a great gift for kids aged 10 and up who are fans of the Marvel character Groot, Super Heroes and buildable LEGO toys.

This Groot building toy for kids has a movable head and posable arms. When kids turn the handle at the back of the flower pot, the jointed Groot starts dancing. The figure can be customized with additional leaves, buildable headphones and sunglasses, and kids can personalize Groot's pot by adding 1 of 3 different nameplates to the front (including one related to the TV show I am Groot). All of these accessories can be stored in the pot's built-in compartment. To make building the model even more fun, the LEGO Builder app lets kids zoom in, rotate models in 3D and track progress as they go.

Buildable Groot animated toy for kids:

- Dancing Groot is an interactive gift for boys and girls aged 10 and up.

Dancing Super Hero:

- The playset includes a buildable Groot in a flower pot, 3 different nameplates to attach to the pot, and accessories including headphones, sunglasses and extra leaves.

Interactive dancing Groot:

- When kids turn a handle at the rear of the buildable toy, the jointed Groot model gets funky.

Super Hero playset:

- Groot's head turns, his arms are posable, and the pot includes a built-in storage compartment for all the accessories.

Guardians of the Galaxy gift:

- Treat fans of Marvel's Groot, Super Heroes and buildable LEGO® toys to this interactive playset.

3D building instructions:

- Kids can download the LEGO® Builder app for an immersive building experience, with digital tools to zoom in and rotate models in 3D, save sets and track progress.

More LEGO® Marvel playsets:

- The extensive range of LEGO Marvel building toys puts an ever-changing universe of imaginative Super Hero adventures into kids' hands.

459-piece building set:

- The fully assembled model stands over 8.5 in. (22 cm) tall.

The box is white. On the front of the box is an image of baby Groot dancing in his flower pot on a purple table. The table looks like it might be on a spaceship or something similar. Ironman can be seen in the background! Groot's headphones are hung on the flower pot and his sunglasses sit on the table nearby.

The top of the box shows a life sized image of the piece that has Groot's eyes printed on it.

The back of the box shows an image similar to the front, except now Groot is wearing his sunglasses and headphones! There is a small inset image showing how turning the crank will make Groot dance!

Welcome to text-based instructions from Bricks for the Blind. Before you start building, here are some terms we'll be using:

- In Front of/Front: towards you.
- Behind/Back: away from you.
- Up: towards the ceiling.

- Down: towards the floor.
- Stud: the bump on a LEGO brick. Example: A 2x1 brick has two studs on it.
- Vertically: with the longest side going from front to back
- Horizontally: with the longest side going from left to right.
- Upright: pointing up towards the ceiling.
- Standing upright: The piece is perpendicular to the ground, like a wall.
- Lying flat: The piece is parallel to the ground, like a piece of toast which fell off the table.
- That one/ppp: previously placed piece.
- Plate: piece with studs.
- Tile: smooth piece without studs (unless otherwise specified)
- A jumper plate is a 1x2 plate with a single stud on top, or a 1x3 plate with only two studs on top.
- "Anti-stud" is a term for the portion of a LEGO piece which accepts studs, like the bottom of a plate or brick.
- Symmetrically: a mirror image. Example: If you place a 2x1 brick with technic connector on the front wall at the right, connector to the front, and then place another such piece symmetrically on the back wall, at the right, the technic connector of the second piece should point to the back, since it will be placed symmetrically.
- Centered-vertically: even amount of space in front of and behind piece
- Centered-horizontally: even amount of space left and right of the piece.
- Row: studs lined up horizontally (left to right/side to side).
- Column: studs lined up upright or vertically (top to bottom/back to front).

For builders with low vision, or a sighted building partner who may want to follow along with the printed visual instructions that come with each kit, PDF versions are always online at LEGO.com: (<https://www.lego.com/en-us/service/buildinginstructions/76297>) As low vision users may benefit from viewing the instructions on a personal device where they can zoom in on content and use assistive technologies to enhance the visuals.

Sorting the pieces:

To begin a successful build, it helps to sort the pieces into groups, bags or small containers. Have a friend or family member do this in advance following the instructions below. You will see that the pieces should be sorted according to the building steps in the kit. Doing this in advance makes locating the pieces for each step easier. See below on how to sort the pieces to correspond to the steps in this set. Number the containers using letters A-Z, numbers or meaningful names. The parts will be sorted into one or a small number of steps in the instructions. Example: Steps 1-3 means collect all the parts used in steps 1, 2 and 3, and put them in one container.

This LEGO set comes with four bags labeled 1-4, a sticker sheet, and an instruction booklet. Sort the pieces into groups as described below. Note that where there are multiple colors of the same brick in a step, the colors will be split across two groups to make telling the difference easier for the builder! LEGO includes a few spare parts in case you lose something. Set these into their own group away from the rest, in case you need them later.

This build is 459 pieces, and 150 building steps.

Bag 1 (5 groups of bricks)

Main Build 1: Flower Pot

Group 1 contains the pieces for steps 1-7.

Group 2 contains the pieces for steps 8-13.

Sub-build 1: Dancing Mechanism

Group 3 contains the pieces for steps 14-23.

Main Build 1: Flower Pot (Continued)

Group 4 contains the pieces for steps 24-30.
Group 5 contains the pieces for steps 31-35.

Bag 2 (2 groups of bricks)

Group 6 contains the pieces for steps 36-45.
Group 7 contains the pieces for steps 46-50.

Bag 3 (9 groups of bricks)

Main Build 2: Groot

Group 8 contains the pieces for steps 51-59.
Group 9 contains the pieces for steps 60-68.
Group 10 contains the pieces for steps 69-78.
Group 11 contains the pieces for steps 79-83.
Group 12 contains the pieces for steps 84-91.
Group 13 contains the pieces for steps 92-96.
Group 14 contains the pieces for steps 97-99.
Group 15 contains the pieces for steps 100-104.
Group 16 contains the pieces for steps 105-109.

Bag 4 (6 groups of bricks)

Group 17 contains the pieces for steps 110-117.
Group 18 contains the pieces for steps 118-125.
Group 19 contains the pieces for steps 126-132.

Sub-build 2: Sunglasses

Group 20 contains the pieces for steps 133-140.

Sub-build 3: Headphones

Group 21 contains the pieces for steps 141-147.
Group 22 contains the pieces for steps 148-150.

A note on LEGO Technic™ part names. These parts are somewhat different from regular LEGO bricks. Here are some definitions in case the builder or helper is not familiar with LEGO Technic™.

Axles - An axle is a connector which has an X shaped cross-section. Because their cross section is not round, anything connected to an axle using an axle-hole will rotate with that axle. Axles are longer than they are wide, and the length of an axle corresponds with how many bricks long it is. Aka a 3L axle is three bricks long. Axles come in a variety of lengths, with a 2L axle being the shortest available. They may be combined with pins, or have circular stops on them. A stop prevents the axle from sliding through an axle-hole at a specific point on the axle.

Pins - A pin is a connector which has a circular cross section and a flanged notch out of one or both ends. This flanged notch allows them to click into bricks with a pin-hole. Pins come with and without friction ridges, which are small bumps on the pin which prevent them from rotating freely. For standard pins, black is a high friction pin, and gray is a low friction pin. A standard length pin is two brick lengths long, with a stop in the middle. This prevents a brick from being pushed from one side of the pin to the other. A 1L pin is one brick long and still retains the stop, however it also includes a hollow stud at the other end. A 3L pin is three bricks long, and only contains a stop at one side, allowing two bricks to be pushed onto the other side of the pin. Pins may also have one side which is an axle.

Lift-arms - A lift-arm is a basic structural element, similar to a brick or a plate, but usually without any studs. It is a beam with rounded ends and with holes in it, with the same spacing as the studs on a LEGO brick. lift-arms come in a variety of lengths, including a 1x1 lift-arm which looks like a cylinder. Thick lift-arms are as wide as a LEGO brick, and thin lift-arms are half as wide as a LEGO brick, but not the same thickness as a LEGO plate! The holes in a lift-arm arm may accept axles or pins. They also come in a variety of shapes, including tees, ells and triangles.

Gears - A gear is a functional element. They are typically discs with teeth on the outside, there are also worm gears which look like a spiraling cylinder! Gears connected by axles transmit or even transform rotational motion!

Axle and Pin Connectors - These elements are typically smaller than lift-arms and are used to connect some combination of pins or axles. They might have pins or axles, as well as axle or pin-holes. They have a lot of different angle combinations! The simplest just connects two axles or pins together in a straight line.

Bushes/Bushings - LEGO Technic™ uses bushes largely as spacers, but they also can reduce friction between rotating parts, or can form useful elements such as handles. Bushes are typically light gray, generally cylindrical, and have an axle-hole running through the middle. They have a flange at the front and back to make them easier to pull on and off

Building Instructions:

Open bag 1.

Main Build 1: Flower Pot

Open group 1.

1. We'll start by building Groot's flower pot! This is just a simple cylindrical pot on the outside, but it's got a lot going on inside! First we'll build the base, then make a square, and put rounded sides on it. Place a white 4x6 plate vertically in front of you.

2. Place a brown 1x8 plate, horizontally and centered horizontally, on the front and back rows of the previous piece.

3. Place a white 2x6 plate with two rounded corners, vertically with the rounded corners on the left, under the previous two pieces to the left of the 4x6 plate. Repeat symmetrically on the right side.

4. Place two dark tan 2x4 tiles, horizontally and next to each other, behind the front 1x8 plate. Repeat symmetrically in front of the back 1x8 plate.

5.1. Place a dark brown 1x1 brick with studs on two sides, with the studs facing the front and left, on the front left stud. Repeat symmetrically on the back side.

5.2. Place a light brown 1x2 brick with two studs on one side, with the side studs at the front, to the right of the front previous piece. Repeat symmetrically on the back side.

5.3. Place a brown 1x4 brick with four studs on one side, with the side studs at the front, to the right of the front previous piece. Repeat symmetrically on the back side.

5.4. Place a dark brown 1x1 brick with studs on two sides, with the studs facing the front and right, to the right of the front previous piece. Repeat symmetrically on the back side.

6.1. Place a brown 1x6 arch brick vertically in front of you.

6.2. Place a sand green 1x1 tall plate under the front and back studs of the previous piece.

6.3. Repeat steps 6.1-6.2.

6.4. Place an arch assembly, vertically, on the leftmost and rightmost columns of the flower pot.

7. Place three tan 1x2x2 tall bricks with four studs on one side, with the side studs at the front, on the front row between the previous two pieces. Repeat symmetrically on the back side.

Open group 2.

8.1. Place a yellow 1x2 plate with a 2x2 of studs sticking up from one side, centered horizontally with the side studs at the back, on the back row.

8.2. Place a medium brown 1x2 plate with rounded ends, horizontally and centered horizontally, on the front row.

9.1. Place a sand green 1x1x2 tall brick with two studs on one side, with the side studs at the front, to the left and right of the previous piece. Repeat symmetrically on the back side.

9.2. Place a dark tan 1x1 round plate to the left of the left previous pieces. Repeat symmetrically on the right side.

10. Place a white 1x8 plate with two rows of studs sticking up from one side, with the side studs on the left, to the left of the left previous pieces. Repeat symmetrically on the right side.

11.1. Place a light green 1x2 plate, horizontally, on the left and right two studs on the front and back rows of the pot.

11.2. Place a light brown 1x2 brick with two studs on one side, with the side studs at the front, on the front previous pieces. Repeat symmetrically on the back side.

12. Place the top row of a white 2x2 tile on the side studs of each of the front previous pieces. Repeat symmetrically on the back side.

13. Place a white 1x3 plate, horizontally, on the left and right three studs on the front and back rows of the pot.

Sub-build 1: Dancing Mechanism.

Open group 3.

14.1. Now we need to build the mechanism that will let Groot dance when you turn a crank! Set the rest of the flower pot aside for now. Place a dark tan 2x2 corner plate, with the corner at the front right so the studs make a braille letter J, in front of you.

14.2. Place the left stud of a light blue 1x2 brick, horizontally, on the back stud of the previous piece.

15. Place the back stud of a dark tan 2x2 corner plate, with the corner at the front left so the studs make a braille letter H, under the right stud of the previous piece.

16. Place a light brown 1x4 brick with a log pattern, horizontally, on the front row of the dancing mechanism.

17. Find a black 4x4x2 gearbox. This looks like two 1x4 plates on top of a 1x4 plate with holes on the two ends. Place the back two studs of this piece, with the two 1x4 plate vertically, on the left and right studs of the previous piece. When you're done the mechanism should be five studs long, and the bottom of the gearbox should be even with the bottom of the rest of the assembly.

18.1. Place a dark gray 1x4 brick with three holes, horizontally, under the front two studs of the previous piece.

18.2. Place the back row of a dark tan 2x2 corner plate, with the corner at the back right so the studs make a braille letter D, under the left two studs of the previous piece. Repeat symmetrically on the right side.

19.1. Now we need to add some gears to the gear box. If you feel the top of the gearbox, there are two small plates oriented horizontally and sticking up. There is a gap on each side between these and the 1x4 plates on the gear box. Slide a tan 12 tooth bevel gear, with the flat side on the left, down into the gap on the left side.

19.2. The previous piece has an axle hole in the middle. Push a black 6L axle, from the left, through the hole on the left side of the gearbox so the axle goes through the hole in the gear. You might need to spin the axle, and move the gear a little bit with your finger to get it to work. Push the axle all the way through until it sticks out evenly on the left and right sides of the gearbox. Groot's body will be attached to these gears.

20.1. Next, slide a tan 12 tooth bevel gear, with the flat side at the front, into the gap between the front 1x4 brick with holes and the gearbox. The axle hole on the gear should be directly behind the middle hole of the 1x4 brick.

20.2. Push a black 6L axle through the middle hole until it attaches to the gear. Don't push it any further in. The teeth of this gear should mesh with the teeth of the first gear, so if you spin either one both gear should spin! This will be where we attach the crank.

21. Push a red bushing over the previous piece. Push it all the way back until it touches the 1x4 brick.

22.1. Push the axle hole of a dark gray 24 tooth gear over the left and right axles. Push them all the way in until they touch the gear box.

22.2. The previous pieces have four holes on the sides. Turn the crank so the holes are at the front, back, top, and bottom of each gear. Push a red 1L pin with a ball on one side, with the ball on the right, from the right into the front hole of the right gear.

22.3. Push a red 1L pin with a ball on one side, with the ball on the left, from the left into the back hole of the left gear. It is very important that these are 180 degrees off from each other or Groot won't dance right!

23. Clip one end of a black 1x9 link onto each of the pieces from the previous step. Links are long bars that have an open half-sphere on each end. These are what attach to Groot's body.

Main Build 1: Flower Pot (Continued)

24. Place the rest of the flower pot in front of you. The side with the most side studs should be at the back. The middle two studs of the front row should be lower than the rest of the pot. With the axle for the crank at the front, place the dancing mechanism, centered vertically and horizontally, into the flower pot. It should connect and the tops should be even. The two links should stick up out of the flower pot.

Open group 4.

25.1. We're going to build the flower pot around the crank now. Place a white 2x2 plate in front of you.

25.2. Place the right two studs of a white 1x3 plate, horizontally, on both rows of the previous piece so they overhang one stud to the left.

25.3. Place the right column of a sand blue 2x2 plate with two studs on one side, with the side studs on the left, under the left column of the assembly.

25.4. Place a dark gray 1x2 tile with two pin holes sticking up, on the side studs of the previous piece.

25.5. Push a dark gray 1L pin with a stud on one side, with the stud on top, into the right hole of the previous piece.

25.6. Rotate this assembly so the pin holes are at the top and the studs are at the front. Slide to top pin hole over the axle at the front of the flower pot and attach the rest of the assembly to the side studs on the pot. It should be centered horizontally.

26.1. Slide a white 1L liftarm over the crank axle from the front. This piece just looks like a hollow cylinder.

26.2. Push a light gray thin bush over the axle and push it back until it touches the previous piece.

27. Place a sand blue 2x2 plate with two studs on one side, with the side studs at the back, centered horizontally, on the back two rows of the flower pot. Repeat symmetrically on the front side. Note that only the back row of the front piece will be attached to the rest of the pot.

28. Place a blue 2x4 plate with holes between the studs, vertically and centered vertically, on the previous two pieces.

29.1. Place a light brown 1x6 plate, vertically and centered vertically, to the left and right of the previous piece.

29.2. Place a medium brown 1x2 plate with rounded ends, horizontally, on the front and back rows to the left of the left previous piece. Repeat symmetrically on the right side.

30.1. Place a brown 4x4 hollow square plate, centered vertically and horizontally, on the flower pot.

30.2. Place a dark brown 2x2 plate in the hollow square of the previous piece.

Open group 5.

31.1. Place a blue 2x4 plate with holes between the studs, vertically and centered vertically, on the previous piece.

31.2. Place a green 1x4 plate, vertically, to the left and right of the previous piece.

32.1. Place a brown 4x4 hollow square plate, centered vertically and horizontally, on the flower pot.

32.2. Place a brown 1x4 brick with four studs on one side, with the side studs at the front, in front of the previous piece. Repeat symmetrically on the back side.

33.1. Place a dark brown 2x2 round plate, centered vertically and horizontally, on the flower pot.

33.2. Place a lime green 2x2 round tile with a hole in the middle, on the previous piece.

34. Find a white 3L axle/pin combo with a 2L axle side and a 1L pin side. Push the axle side of this piece, with the pin on top, down through the center hole of the previous piece. Push it all the way down until only the pin sticks up.

35.1. Place a light green 1x1 tall plate in front of you.

35.2. Place a white 1x1 plate with a stud hanging down from one side, with the side stud on the left, on the previous piece.

35.3. Repeat steps 35.1-35.2 three times.

35.4. Place one of the assemblies we just made, with the side stud on the left, on the second stud from the left on both the front and back rows of the flower pot. Repeat symmetrically on the right side.

Open bag 2.

Open group 6.

36. Now we'll start making the flower pot curved! Place a white 2x4 plate, upright, vertically and centered horizontally, on the 2x4 of side studs below the crank axle.

37. Place the right stud of a white 1x4 curved slope tile, horizontally and sloping to the left, on each of the studs on the left column of the previous piece. Repeat symmetrically on the right side. The front side of the flower pot should now be rounded!

38. Find the pin below the crank axle. Place the anti-stud of a white 1x2 brick, horizontally and centered horizontally, on the stud of this pin.

39.1. Assemble two 1x2 hinges by attaching two light gray 1x2 hinge plates to two white 1x2 hinge bases. Place these vertically in front of you with the flat sides on the right so the plates can hinge down and to the left.

39.2. Place the right column of a white 2x3 curved slope tile, horizontally and sloping to the left, on each of the previous pieces.

39.3. Find the two side studs and 2x2 tile to the left of the crank axle. Rotate one hinge assembly so the curved slope tile is on the left and the hinge is on the right. Put the hinge on the side studs to the left of the crank axle. Hinge the curved slope tile back so it touches the 2x2 tile. Repeat symmetrically on the right side.

40. Now we'll work on the back side of the pot! Rotate it 180 degrees so the curved side is at the back. Place a white 2x4 brick, upright, vertically and centered horizontally, on the bottom four rows of side studs on the front side of the pot.

41. Place the right stud of a white 1x4 curved slope tile, horizontally and sloping to the left, on each of the studs on the left column of the previous piece. Repeat symmetrically on the right side. The front side of the flower pot should now be rounded!

42.1. Place a tan 2x2 ribbed thick plate, center horizontally, on the side studs above the pieces from the previous step. This is right above the 2x4 brick from step 40.

42.2. Place a white 2x2 brick on the previous piece.

43.1. Assemble two 1x2 hinges by attaching two light gray 1x2 hinge plates to two white 1x2 hinge bases. Place these vertically in front of you with the flat sides on the right so the plates can hinge down and to the left.

43.2. Place the right column of a white 2x3 curved slope tile, horizontally and sloping to the left, on each of the previous pieces.

43.3. Find the two side studs and 2x2 tile to the left of the 2x2 brick from step 42.2. Rotate one hinge assembly so the curved slope tile is on the left and the hinge is on the right. Put the hinge on the side studs to the left of the 2x2 brick. Hinge the curved slope tile back so it touches the 2x2 tile. Repeat symmetrically on the right side.

44.1. Now we'll curve the left and right sides of the pot. Place a white 2x4 plate vertically in front of you.

44.2. Place the right columns of two white 2x3 curved slope tiles, horizontally and sloping to the left, on the left column of the previous piece. Repeat symmetrically on the right side.

44.3. Repeat steps 44.1-44.2.

44.4. Rotate one of the curved assemblies we just made so the curved slopes are on the right and the anti-stud are on the left. Place it, centered front to back, on the right side of the flower pot below the top two rows of side studs. Repeat symmetrically on the left side.

45.1. Place a white 2x2 plate in front of you.

45.2. Place the right column of a white 2x3 curved slope tile, horizontally and sloping to the left, on the front two studs of the left column of the previous piece. Place another behind the first, then repeat symmetrically on the right side.

45.3. Place one of the curved assemblies, with the curved slopes on the right, on the top two rows of side studs on the right side of the pot. Repeat symmetrically on the left side.

Open group 7.

46.1. We've still got to extend the pot upwards a bit. Find a white 1x6 arched mudguard. This looks like a 1x6 plate with a raised arch on one side. Place this horizontally in front of you with the arch at the back.

46.2. Place a white 1x1 plate on the left and right studs of the previous piece.

46.3. Place a white 1x2 plate with two click fingers on one long side, horizontally with the fingers at the back, centered horizontally on the 1x6 mudguard.

46.4. Place the back row of a white 2x2 plate on the left two studs of the assembly. Repeat symmetrically on the right side.

46.5. Place the left two columns of a white 2x3 curved slope tile, horizontally and sloping to the left, on the left piece from the previous step. Repeat symmetrically on the right side.

46.6. Place a light brown 1x2 plate with rounded ends, horizontally and centered horizontally, under the previous two pieces.

46.7. Place a light green 1x2 plate under the previous piece.

46.8. Find the two side studs on the left side of the flower pot, near the top of the pot. Rotate the assembly we just made so the mud guard is on top and the curved slope tiles are on the left. Place it on the left two side studs on the pot.

47.1. Now we'll do the same for the right side of the pot. Place a white 1x6 arched mudguard horizontally in front of you with the arch at the back.

- 47.2. Place a white 1x1 plate on the left and right studs of the previous piece.
- 47.3. Place the front row of a white 2x2 plate, centered horizontally, on the 1x6 mudguard.
- 47.4. Place a light green 1x2 plate under the back row of the previous piece.
- 47.5. Place the back row of a white 2x2 plate on the left two studs of the assembly. Repeat symmetrically on the right side.
- 47.6. Place the left two columns of a white 2x3 curved slope tile, horizontally and sloping to the left, on the left piece from the previous step. Repeat symmetrically on the right side.
- 47.7. Find the two side studs on the right side of the flower pot, near the top of the pot. Rotate the assembly we just made so the mud guard is on top and the curved slope tiles are on the right. Place it on the right two side studs on the pot.
- 48.1. Now we just need to do the same for the front and back sides of the pot. Place a white 2x6 plate horizontally in front of you.
- 48.2. Place a white 2x2 brick, centered horizontally, on the previous piece.
- 48.3. Place the right stud of a white 1x4 curved slope tile, horizontally, on each of the studs on the left column of the previous piece. Repeat symmetrically on the right side.
- 48.4. Place a white 1x2 plate with a rail on one side, vertically with the rail on the left, under the leftmost studs of the two left previous pieces. Repeat symmetrically on the right side.
- 48.5. Repeat steps 48.1-48.4.
- 48.6. Place one curved assembly, horizontally with the curved slopes at the front, centered horizontally on the two rows of side studs on the front of the pot. These are at the top of the pot. Repeat symmetrically on the back side.
- 49.1. Now we need to add some dirt to the top of the pot! Place the back two rows of a brown 2x3 tile, vertically and centered horizontally, on the front two rows on top of the pot. Repeat symmetrically on the back side.
- 49.2. Place a brown 1x4 tile, vertically and centered vertically, to the left and right of the two previous pieces.
- 50.1. Place a brown 1x1 quarter circle tile, with the straight sides on the back and right, in front of the left previous piece. Repeat symmetrically on the right side.
- 50.2. Repeat the previous step symmetrically on the back side.
- 50.3. Find a brown 2x2 rounded corner tile. This tile is cut out so it looks like a macaroni noodle, I'll call it a "2x2 macaroni tile" from now on. Rotate it so the flat sides are at the back and right and place it so it curves around the front left quarter circle tile from step 50.1. Repeat with the other quarter circle tiles so the macaroni tiles curve around them.

Open bag 3.

Main Build 2: Groot.

Open group 8.

51.1. Now we'll start building Groot! Groot's body is growing out of the flower pot, but we need to set the pot aside for now. His body starts below the arms, so we'll call it the torso. Find a light gray 1x2 brick with a hole on one side and two thin 2L liftarms on the other. Place it in front of you so the studs make a column on the right and the liftarms point to the left, kind of like a backwards letter C.

51.2. Push a black 2L axle, from the back, into the back liftarm. Only push it in until it is even with the front side of the back liftarm.

52.1. Find a brown 3L thick liftarm with a bushing on one side. Rotate this so it is vertical with the bushing on the right. Line the bushing up with the axle from the previous step. This means it will be between the two 2L liftarms attached to the 1x2 brick. Then push the axle all the way forward so it goes through the bushing.

52.2. Push a light gray 1L pin with a stud on one side, with the stud on top, from the top into the middle hole of the previous piece.

53. Place the right column of a light brown 2x4 plate, horizontally, onto the 1x2 brick with the two liftarms. The stud on the pin from the previous step should attach to one of the middle anti-studs of this plate.

54.1. Place a light green 1x2 plate, vertically, on the right column of the previous piece.

54.2. Place a medium brown 1x2 plate with rounded ends, vertically, on the previous piece.

55.1. Place the right stud of a dark tan 1x1 plate with a 1x1 curved slope brick on one side, horizontally with the curved slope on the left, on both studs of the previous piece.

55.2. Place a brown 2x3 plate with one rounded end, with the rounded end on the left, to the left of the previous two pieces.

56.1. Place a dark tan 1x4 double curved slope tile, vertically and centered vertically, on the left column of the previous piece.

56.2. Find two white 1x2 wedged curved slope tiles and place them vertically in front of you, with the longest sides at the left. Take the one with the point at the front and place its back stud on the front stud to the right of the previous piece. Repeat symmetrically on the back side with the other piece.

57. Place a light brown 1x1 plate with two studs hanging down from one side, with the side studs at the front, on the front stud on Groot's right column. Repeat symmetrically on the back side.

58. Place a light green 1x2 plate, vertically, on the two previous pieces.

59.1. Place a brown 1x1 plate with a hole on one side, upright with the hole on top, on the front side studs. Repeat symmetrically on the back side.

59.2. Push a light gray 1L pin with a stud, with the stud on the left, into the holes of the two previous pieces.

Open group 9.

60.1. Place a dark tan 1x1 quarter circle tile, with the straight sides at the right and back, on the front stud on Groot's right column.

60.2. Place a dark tan 1x2 wedged curved slope tile, vertically with the point at the back, behind the previous piece.

61. Rotate Groot's torso so the curved slope tiles are at the back, and the rounded end of the 2x3 plate from step 55.2. Is at the top. The anti-stud should be at the front. Place the bottom row of a light green 2x2 plate on the bottom anti-stud row.

62. Place a brown 1x1 plate with two studs sticking up from one side, with the side studs on the left, on the bottom left anti-stud of the previous piece. Repeat symmetrically on the right side.

63. Place the bottom row of a dark tan 2x2 inverted curved slope with a root sticker, so it is sloping up, on the two previous pieces.

64. This step tells you to place the sticker on the previous piece, if you haven't done so already.

65. Place a light brown 1x3 curve slope brick, horizontally with the slope at the front, on the left side studs on Groot's torso. Repeat symmetrically on the right side.

66. Place a light brown 1x1 half cylinder tile, with the flat sides on the top and bottom, on the two previous pieces.

67. Keeping the round plate at the top, rotate Groot's torso 180 degrees so the curved slopes are at the front again. There should only be two studs left. Place a light green 1x1 round plate with three leaves, with the leaves facing the front and left, on the left stud. Repeat symmetrically on the right side.

68. Now we'll place Groot's torso onto the pot! Place the pot in front of you with the axle crank at the back. There should be a 2x2 of side studs at the front. Hold the torso so the rounded plate is at the top and the curved slopes are at the front. Find the hole on the bottom of the torso and connect it to the pin on top of the pot.

Open group 10.

69.1. Time to keep making Groot's torso taller! Set the pot aside for now. Place a light gray 1x2 brick with a hole on one side and two thin 2L liftarms on the other, with the hole on the right and the liftarms on the left, in front of you.

69.2. Find a dark brown perpendicular axle to pin connector. This has a 1L axle with a perpendicular pin hole on one side. Push the axle of this piece, with the axle at the back and the hole facing up and down, from the front into the front liftarm of the previous piece. Only push it in until it is even with the back side of the front liftarm. Repeat symmetrically on the back side.

70. Place the bushing of a brown 3L thick liftarm with a bushing on one side, vertically with the bushing on the right, between the two 2L liftarms attached to the 1x2 brick. Then push the pieces from the previous step in so they attach this piece to the rest of the assembly.

71. Place the right column of a brown 3x4 double wedge plate, with the narrow side on the right, on the right column of the assembly. This is the only column so far.

72. Push the pin of a dark tan 2x2 plate with a pin on the bottom, from the top into the middle hole on the 3L liftarm with a bushing, on the left side of the assembly.

73.1. Place a brown 2x3 plate with one rounded end, with the rounded end on the left, on the previous piece.

73.2. Place a light green 2x2 plate with a rounded mudguard on one side, with the mudguard on the right, to the right of the previous piece.

74. Place a dark tan 1x1 quarter circle tile, with the straight sides at the front and left, on the front right stud of the previous piece. Repeat symmetrically on the back side.

75. Place a dark tan 2x2 tile with a root sticker to the left of the two previous pieces.

76.1. Place the front stud of a dark tan 1x1 plate with a 1x1 curved slope brick on one side, vertically with the curved slope at the back, on the back row to the left of the previous piece.

76.2. Place a dark tan 1x1 tile with a 1x1 slope tile on one side, with the slope tile at the front, in front of the previous piece.

77. Keeping the 2x3 plate with a rounded end from step 73.1 on the left side, flip the torso assembly upside down. Place a light green 2x2 plate, upside down, on the right two anti-stud columns.

78. Place a 2x2 round tile with a rounded bottom, upside down, on the previous piece.

Open group 11.

79.1. We need to make a small connecting assembly now. Place a dark tan 2x2 curved slope tile with a root sticker, sloping to the right, in front of you.

79.2. Place the right stud of a 1x2 plate with a bar sticking up from one long side, horizontally with the bar at the front, under the front left stud of the previous piece. Repeat symmetrically on the back side.

79.3. Place a light green 1x2 plate, vertically, on the left column of the connecting assembly.

79.4. Place the right stud of a dark tan 1x1 plate with a 1x1 curved slope brick on one side, horizontally with the curved slope at the left, on the front stud of the previous piece.

79.5. Place a dark tan 1x2 wedged curved slope tile, horizontally with the point on the left, behind the previous piece.

79.6. Flip the connecting assembly upside down and rotate it so the 2x2 curved slope is at the front. The bars should be on the left and right side. Place the right bar into the hole of the 2x3 rounded plate on the leftmost end of the torso assembly. It will just float in this hole for now.

80.1. Now we need to make a couple of linkages which Groot needs to dance! Make sure you keep the rest of the torso assembly together. Place a brown 7L thick liftarm horizontally in front of you, with the holes facing up and down.

80.2. Push a light gray 2L pin, from the top, into the left and right holes of the previous piece. These pins don't have friction ridges and they should spin easily in their holes.

81.1. Find a dark gray 3L thick liftarm which has axle holes on the left and right, and a perpendicular pin hole in the center. Place this in front of you, horizontally with the pin hole facing front and back.

81.2. Push the axle side of a tan 2L axle/pin combo, with the axle at the top, from the bottom into each of the axle holes of the previous piece.

81.3. Push the pin of a black 1L pin with a ball on one side, with the ball at the front, from the front into the middle hole of the 3L thick liftarm from step 81.1.

81.4. Push the two pins on the 3L liftarm down into the rightmost and third from the right free holes on the 7L liftarm.

82.1. Find a black pin connector with two 2L thin liftarms on it. Rotate this piece so the liftarms are at the back on the top and bottom, and so the pin hole is at the front on the left side of the piece. The hole should face left and right.

82.2. Push the pin of a black 1L pin with a ball on one side, with the ball on the left, from the left into the hole of the previous piece.

82.3. Push a black 2L axle, from the top, into both of the axle holes on the top of the piece. Only push them in until they are even with the bottom side of the top liftarm.

82.4. Keeping the ball on the left, slide the 7L thick liftarm between the two thin liftarms, then push the two axles all the way down to connect all the pieces of the linkage. When you are done with the linkage, from left to right, you should have the top half of a 2L pin sticking up, the piece with two 2L liftarms, with the ball on the left side, the 3L thick liftarm with the ball on the front side, and finally the top half of another 2L pin sticking up.

82.5. Flip the linkage so the pins point down, and rotate it so it is vertical with both balls on the right side. From front to back, you should now have a pin, a 3L liftarm, a piece with two 2L liftarms, and a pin.

83. Now we'll go back to the torso assembly. It should be horizontal in front of you, with the anti-stud on top. The right two columns should be covered by a 2x2 round plate with a rounded bottom. There should be two single holes to the left of this piece, then a column of three holes. Push the back pin of the linkage down into the front hole on this column.

Open group 12.

84.1. Now we need to make a linkage for Groot's other side. Place a brown 7L thick liftarm horizontally in front of you, with the holes facing up and down.

84.2. Push a light gray 2L pin, from the top, into the left and right holes of the previous piece. These pins don't have friction ridges and they should spin easily in their holes.

85.1. Place a dark gray 3L thick liftarm which has two axle holes and a perpendicular center hole in front of you, horizontally with the pin hole facing front and back.

85.2. Push the axle side of a tan 2L axle/pin combo, with the axle at the top, from the bottom into each of the axle holes of the previous piece.

85.3. Push the pin of a black 1L pin with a ball on one side, with the ball at the back, from the back into the middle hole of the 3L thick liftarm from step 85.1.

85.4. Push the two pins on the 3L liftarm down into the rightmost and third from the right free holes on the 7L liftarm.

86.1. Place a black pin connector with two 2L thin liftarms on it in front of you, with the liftarms at the front on the top and bottom and the pin hole at the back on the left side of the piece. The hole should face left and right.

86.2. Push the pin of a black 1L pin with a ball on one side, with the ball on the left, from the left into the hole of the previous piece.

86.3. Push a black 2L axle, from the top, into both of the axle holes on the top of the piece. Only push them in until they are even with the bottom side of the top liftarm.

86.4. Keeping the ball on the left, slide the 7L thick liftarm between the two thin liftarms, then push the two axles all the way down to connect all the pieces of the linkage. When you are done with the linkage, from left to right, you should have the top half of a 2L pin sticking up, the piece with two 2L liftarms, with the ball on the left side, the 3L thick liftarm with the ball on the back side, and finally the top half of another 2L pin sticking up.

86.5. Flip the linkage so the pins point down, and rotate it so it is vertical with both balls on the right side. From front to back, you should now have a pin, a piece with two 2L liftarms, a 3L liftarm, and a pin.

87.1. Now we will place the front pin of this linkage into the back hole on the same column of holes as the first linkage. This linkage should be symmetrical to the first.

88.1. Now we'll add this torso piece to the rest of Groot in the pot. Place the pot in front of you, with the axle crank at the back and the 2x2 of studs at the front. There is a row of three holes on the back of Groot's lower torso, near the top. We'll attach the linkages to these holes. There is a rounded plate with a hole in the middle sticking up from the bottom torso piece. We'll slide one of the bars from the upper torso into this hole.

88.2. Rotate the upper part of the torso we just made so the mudguard is on top and the 2x2 round plate with a rounded bottom is at the back. Let the two linkages hang straight down. Each linkage should have a pin at the bottom facing the front. The bottom part of this assembly is only connected by a bar, and it will have another bar at the bottom. Push the pins into the two pin holes on the lower torso piece we talked about in the previous step, and guide the bar into the hole on the top of the bottom torso piece.

88.3. Ok, now we need to take stock and make sure everything went together OK. Groot won't want to stand up straight yet. That's OK. There should be a hole at the very top of the top torso piece. The mudguard should wrap around this hole. There should be a hole on each side facing the back below the mud guard at the top. Just below these pin holes, there should be a ball pointing up. Near the bottom of each linkage, there should be another ball pointing away from Groot.

89. Remember the two black 9L links sticking up from the pot that are probably getting in your way alot? Time to use those to help Groot stand up! Clip the top end of each of these to the bottom ball on the linkage on that side. Now he should be able to stand on his own a bit better!

90. Find the two studs on the front of Groot's upper torso. Place a green 1x1 round plate with three leaves, with the leaves pointing down to the left, on the lower stud, and another with the leaves pointing up to the right on the upper stud.

91.1. Now we'll make a bit of detail for Groot's back. Place a dark tan 2x2 plate with a pin on the bottom in front of you.

91.2. Find all of the dark tan 1x2 wedged curved slope tiles (there will be eight the first time you do this). Place these in front of you vertically with the long side on the left. Take two which have the point at the back. Place the front stud of one on the back left stud of the 2x2 plate. Rotate the other 180 degrees so the point is at the front and place it in front of the first. Repeat symmetrically on the right with the other variety of wedge plate. The front of this assembly should make a point and the back side should make a V.

91.3. Repeat steps 91.1-91.2.

91.4. Rotate the flower pot 180 degrees so the axle crank is at the front. Rotate one back assembly we made so the pin is at the back and the pointed side is at the bottom. Find the middle free hole on the left linkage and push the pin into it. Repeat on the other linkage.

Open group 13.

92.1. Now we'll build Groot's arms! Well, we'll start with one arm, building from the shoulder towards the hand. Set the flower pot aside. Place a dark brown 1x3 inverted tile, horizontally, in front of you.

92.2. Place a light gray 1x2 plate with a ball on one short side, horizontally with the ball on the right, on the right two studs of the previous piece.

93.1. Place a light gray 1x2 plate with a pin hole under one stud, horizontally with the hole under the left stud, to the left of the previous piece.

93.2. Push a light gray 2L pin, into the front hole of the previous piece.

94.1. Place a brown 1x1 plate with a ring on one side, vertically with the ring at the front, on the second stud from the left on the arm.

94.2. Place a dark tan 1x1 round plate on the right stud of the ring from the previous piece.

95.1. Place a dark tan 1x1 quarter circle tile, with the straight sides at the front and left, on the rightmost stud of the arm.

95.2. Place a light green 1x2 curved slope tile, horizontally and sloping to the right, to the left of the previous piece.

96.1. Place a light green 1x1 thick plate to the left of the previous piece.

96.2. Place the back stud of a dark tan 1x1 plate with a 1x1 curved slope brick on one side, vertically with the curved slope at the front, on the previous piece.

96.3. Place a dark tan 1x1 quarter circle tile, with the straight sides on the front and left, on the previous piece.

Open group 14.

97.1. That's the first part of the arm. Now we'll build the arm from the elbow to the wrist. Place a light gray 1x2 plate with a ball on one side and a ball holder on the other, horizontally with the ball on the right, in front of you.

97.2. Place a dark tan 1x2 jumper plate, horizontally, on the previous piece.

97.3. Connect the ball holder on this assembly to the ball on the right side of the first part of the arm.

98.1. We'll finish the arm by building the hand! Place a dark tan 1x2 inverted curved slope, vertically and sloping to the back, in front of you. The higher stud should be at the back.

98.2. Place a brown 1x1 plate with a ring on one side, with the ring at the front, on the front stud of the previous piece.

98.3. Place the front stud of a light gray 1x2 plate with a ball holder on one long side, vertically with the ball holder on the left, on the previous piece.

98.4. Place a brown 1x2 plate with three angled bars on one long side, vertically with the bars on the right, on the previous piece.

98.5. Clip a dark tan angled claw, with the clip on the left and the claw curving down to the right, onto each bar of the previous piece. These are Groot's fingers!

98.6. Push the short bar on a green plant stem, with the bar on the left, from the right into the hollow ring of the 1x1 plate with a ring from step 98.2.

98.7. Place a green 1x1 rounded plate with three leaves, with the leaves pointing back and to the left, on the front stud of the hand.

98.8. Push the bar holder on the left side of the hand onto the ball on the right side of the arm.

99. Place the flower pot with Groot's torso in front of you, with the axle crank at the front and the 2x2 of studs at the back. Find the left pin hole which is below the mudguard near the top of the torso. This is right above a ball. Rotate the arm so the hand is on the left, and the pin on the right side faces to the back. Push the pin into the hole we just found.

Open group 15.

100.1. Time to build the other arm. Set the flower pot aside again. Place a dark brown 1x3 inverted tile, horizontally, in front of you.

100.2. Place a light gray 1x2 plate with a ball on one short side, horizontally with the ball on the left, on the left two studs of the previous piece.

101.1. Place a light gray 1x2 plate with a pin hole under one stud, horizontally with the hole under the right stud, to the right of the previous piece.

101.2. Push a light gray 2L pin, from the front, into the front hole of the previous piece.

102.1. Place a brown 1x1 plate with a ring on one side, vertically with the ring at the front, on the second stud from the right on the arm.

102.2. Place a dark tan 1x1 round plate on the left stud of the ring from the previous piece.

103.1. Place a dark tan 1x1 quarter circle tile, with the straight sides at the front and right, on the leftmost stud of the arm.

103.2. Place a light green 1x2 curved slope tile, horizontally and sloping to the left, to the right of the previous piece.

104.1. Place a light green 1x1 thick plate to the right of the previous piece.

104.2. Place the back stud of a dark tan 1x1 plate with a 1x1 curved slope brick on one side, vertically with the curved slope at the front, on the previous piece.

104.3. Place a dark tan 1x1 quarter circle tile, with the straight sides on the front and right, on the previous piece.

Open group 16.

105.1. Now we need to make the wrist of this arm. Place a light gray 1x2 plate with a ball on one side and a ball holder on the other, horizontally with the ball on the left, in front of you.

105.2. Place a dark tan 1x2 jumper plate, horizontally, on the previous piece.

105.3. Connect the ball holder on this assembly to the ball on the left side of the first part of the arm.

106.1. Just like before, we'll build the hand next! Place a dark tan 1x2 inverted curved slope, vertically and sloping to the back, in front of you. The higher stud should be at the back.

106.2. Place a brown 1x1 plate with a ring on one side, with the ring at the front, on the front stud of the previous piece.

106.3. Place the front stud of a light gray 1x2 plate with a ball holder on one long side, vertically with the ball holder on the right, on the previous piece.

106.4. Place a brown 1x2 plate with three angled bars on one long side, vertically with the bars on the left, on the previous piece.

106.5. Time to make the fingers for this hand! Clip a dark tan angled claw, with the clip on the right and the claw curving down to the left, onto each bar of the previous piece.

106.6. Push the short bar on a green plant stem, with the bar on the right, from the left into the hollow ring of the 1x1 plate with a ring from step 106.2.

106.7. Place a green 1x1 rounded plate with three leaves, with the leaves pointing back and to the right, on the front stud of the hand.

106.8. Push the bar holder on the right side of the hand onto the ball on the left side of the arm.

107. Place the flower pot with Groot's torso in front of you, with the axle crank at the front and the 2x2 of studs at the back. The first arm should be on the left side. We'll attach this arm symmetrically to the first, so find the pin hole above the ball on the right side of the torso. Rotate the arm so the hand is on the right, and the pin on the left side faces to the back. Push the pin into the hole we just found.

108. Groot has lots of vines around his body. We need to add some to the arms first. Rotate the pot 180 degrees so the axle crank is at the back. On the left arm, near the shoulder, is a 1x1 round plate with a hollow stud attached to the ring of a 1x1 plate with a ring. Push the long handle of a green whip, with the whip on the left, into the hollow stud of this piece. Find the 1x1 round plate with three leaves that's on the hand of this arm. Wrap the left end of the whip around the arm and push the short bar at the other end into the hollow stud of this leaf plate. Repeat symmetrically with the right arm.

109. Find the two 1x1 round plates with three leaves at the bottom of Groot's torso, near the flower pot. Push the handle of a whip into the hollow stud of each of these. Find the two 1x1 round plates with leaves on the front of the torso, and push the short bars of the whips into the hollow studs of these pieces.

Open bag 4.

Open group 17.

110. Now we'll build Groot's head. Set the flower pot aside. Place a brown 1x2 plate with three angled bars on one long side, horizontally with the bars at the back.

111. Clip a dark tan angled claw, with the clip at the front and the claw curving down, onto the left bar of the previous piece. Clip another claw, with the claw curving up, onto the right bar. These are some of the spikey plant vines that make up Groot's hair.

112. Place the right stud of a dark tan 1x2 inverted curved slope, horizontally with the higher stud on the left, under the left stud of the head. Repeat symmetrically on the right side.

113. Place the back row of a medium brown 2x3 plate, vertically and centered horizontally, on the head.

114. Place the back two rows of a medium brown 2x3 plate, vertically, under the front two rows of the previous piece.

115. Place a light brown 1x4 double inverted slope brick, horizontally, under both of the back two rows of the previous piece.

116.1. Place the back row of a light gray 2x2 plate with a hole under one side, with the hole at the front, on the front row of the head.

116.2. Push a black 2L pin, from the front, into the hole of the previous piece. This pin has friction ridges so it should not turn easily in the hole. This will be what we use to attach Groot's head to his body.

117. Place a green 1x1 round plate with three leaves, with the leaves pointing to the back and left, on the leftmost stud on the back row of the head. Repeat symmetrically on the right side.

Open group 18.

118.1. Now we'll build a little bit more of Groot's hair. Place a dark tan 1x2 plate with a 2x2 of studs sticking up from one long side, with the side studs at the front, in front of you.

118.2. Place a dark tan 1x3 plate with rounded ends, horizontally and centered horizontally, on the bottom row of side studs on the previous piece.

118.3. Place a medium brown 1x2 plate with rounded ends, horizontally, above the previous piece.

118.4. Push the thick side of a dark tan short claw into the hollow middle stud of the 1x3 plate with rounded ends.

118.5. Push the thick side of a green wavy plant stem into the hollow studs to the left and right of the previous piece.

118.6. Push the thick side of a dark tan short claw into the hollow left stud of the 1x2 plate with rounded ends.

118.7. Push the thick side of a green wavy plant stem into the hollow stud to the right of the previous piece.

118.8. Keeping the stud pointing up, rotate the hair piece 180 degrees so the hair all points away from you. Place it centered horizontally on the back row of the head.

119.1. Place a medium brown 1x2 plate with rounded ends, horizontally and centered horizontally, on the second row from the back.

119.2. Place a dark tan 1x3 plate with rounded ends, vertically, on the back three studs of both the left and right columns of the head.

120.1. Place a pink 2x2 brick, centered horizontally, on the back two rows of the head. This is Groot's brain! I think...I don't really know what Groot's brain would look like.

120.2. Place a light brown 1x2 brick with two studs on one long side, horizontally with the side studs at the front, in front of you.

120.3. Place the back anti-stud of a dark tan 1x1 brick with a recessed stud on one side, with the recessed side stud at the front, onto both side studs of the previous piece. The bottom anti-stud of these pieces should be even with the bottom of the previous piece.

120.4. Place the front row of a brown 2x2 round plate on the previous two pieces.

120.5. Place this assembly, with the recessed side studs at the front, on the head in front of the 2x2 brick.

121. Place a dark tan 1x1 brick with a recessed stud on one side, with the side stud on the left, on the back three studs on the left column of the head. Repeat symmetrically on the right side.

122.1. Place a brown 1x1 plate with one rounded end and one short bar, with the bar at the back, in front of you.

122.2. Place the back stud of a light green 1x2 curved slope tile, vertically and sloping to the front, on the previous piece.

122.3. Repeat steps 122.1-122.2.

122.4. Place one assembly, with the bar at the back, on the back two side studs on the left side of the head. Repeat symmetrically on the right side.

123. Place the tile of a dark tan 1x1 tile with a 1x1 slope tile on one side, with the slope tile at the front, on the side studs in front of the assemblies from the previous step.

124.1. Place a black 1x2 half circle tile, horizontally with the rounded side at the front, on the second row from the front of the head. This is the front row of a 2x2 round plate. This piece will be the open part of Groot's mouth!

124.2. Place the right stud of a dark tan 2x2 corner plate, with the corner at the front left so the stud are oriented like a braille letter H, behind the left stud of the previous piece. Repeat symmetrically on the right side.

124.3. Place a brown 1x1 plate with one rounded end and one short bar, with the bar at the back, behind the left column of the left previous piece. Repeat symmetrically on the right side.

124.4. Place the back stud of a dark tan 1x2 jumper plate, vertically, to the right of the left previous piece. Repeat symmetrically on the right side.

125.1. Place a dark tan 1x2 jumper plate, vertically, to the left of the left piece from the previous step. Repeat symmetrically on the right side.

125.2. Find two dark tan 1x2 wedged curve slope tiles. Place them vertically in front of you with the pointed side at the bottom. Place the one with the longer side on the right in front of the left piece from the previous step. Repeat symmetrically on the right side.

Open group 19.

126.1. Now we'll make Groot's chin. Place a light green 2x2 plate with a mudguard on one side, with the mudguard at the back, in front of you.

126.2. Place a dark tan 1x1 quarter circle tile, with the straight sides on the front and right, on the back left stud of the previous piece. Repeat symmetrically on the right side.

126.3. Rotate the chin so the studs are at the front and the mudguard is at the top. Place the bottom row on the side studs on the front of the head. The mudguard forms the rest of Groot's smile!

127.1 Now we'll add the rest of Groot's face. Place a light green 2x2 plate in front of you.

127.2. Find a dark tan 4x3 triple curved slope. This piece has two studs, three straight sides, and one gently curved side. It is also printed with Groot's eyes, which are big and brown! Place the front row of this piece, with the studs at the front, on the back row of the previous piece.

127.3. Place the back row of a dark tan 1x2 plate with three spikes, with the spikes at the front, on the studs of the previous piece. This is more of Groot's hair!

127.4. Keeping the studs on top, rotate the face 180 degrees so the hair is at the back. Place it on the head, so the front just touches the mudguard forming Groot's mouth.

128. We're going to add more hair. Keeping the face on top, rotate the head 180 degrees so the hair is at the front. The bars of four 1x1 plates with rounded ends and short bars are at the front now. These are on the left and right sides of front of the head. Clip a dark angled claw on each of the bars so the claws angle in towards the center of Groot's head.

129. Flip Groot's head over so the anti-stud is on top. Place a dark tan 2x2 round brick with a rounded bottom on the left two columns of anti-stud.

130. Now it's time to put Groot's head on his body! Place the flower pot in front of you, with the axle crank at the front. Find the hole on top of Groot's body. Rotate the head so the hair is on top and the face is at the back. Push the pin at the bottom of the head down into the hole on top of the torso.

131.1. Now we'll assemble the rest of the crank that makes Groot dance. Place a light gray 2L axle/pin combo, with the axle at the back, in front of you.

131.2. Push a light gray 2L pin connector onto the pin side of the previous piece. This will be the handle for the crank.

131.3. Push a light gray thin bushing, from the front, onto the axle side of the axle/pin combo.

131.4. Find a light gray 4L thin liftarm with a one thick side. Push the axle hole on the thin side of this piece, horizontal with the thick side on the left pointing to the back, from the front onto the axle/pin combo.

131.5. Push the left axle hole of the previous piece, from the front, onto the crank axle sticking out of the back of the pot. The handle of the crank should point towards you. If you turn the crank, Groot will dance!

132. Rotate the flower pot 180 degrees so the crank is at the back. Now you have the choice of what name plate to put on the pot! There are three options, all placed on a black 4x4 tile with rounded ends. One says "I am Groot!" in green with a brown vine wrapping around it. Another says "Guardians of the Galaxy" in white. The last is written in gold in a completely different language! Place whichever name plate you want, horizontally and centered horizontally, on the 2x2 of side studs on the front of the flower pot.

Sub-build 2: Sunglasses

Open group 20.

133.1. Groot is pretty cool now, but we can make him cool by giving him some sunglasses! To do this, we need to take his face off. Remember, this is the assembly which is right above the mudguard which makes Groot's smile. It is a 2x2 plate, a 4x3 triple curved slope, and a 1x2 plate with three spikes. Place this in front of you, with the spikes at the back.

133.2. Take the 1x2 plate with three spikes off, move it one column back, and place it back on the face. There should now be two columns of 2 studs on the face.

133.3. Place a medium brown 1x2 plate with a clip instead of one of the studs, vertically with the clip at the back, on both of the columns on the face. We'll attach the sunglasses here.

133.4. Now, place the face back on the head, with the spikes at the top.

134.1. Set the flower pot aside for now. Place a black 2x2 round plate with a rounded bottom in front of you. This will be the first lens of the sunglasses.

134.2. Place a black 1x2 half circle tile, horizontally with the rounded side at the back, on the back row of the previous piece.

135. Place a black 1x1 tile with a clip on top, with the clip fingers on the left and right, on the front left stud of the 2x2 round plate.

136. Place a black 1x1 tile with a clip on top, with the clip fingers at the front and back, to the right of the previous piece.

137. Clip the left end of a black 3L bar, horizontally, into the clip of the previous piece. This is the bridge of the sunglasses.

138.1. Place a black 2x2 round plate with a rounded bottom in front of you. This will be the other lens of the sunglasses.

138.2. Place a black 1x2 half circle tile, horizontally with the rounded side at the back, on the back row of the previous piece.

138.3. Place a black 1x1 tile with a clip on top, with the clip fingers on the left and right, on the front right stud of the 2x2 round plate.

138.4. Place a black 1x1 tile with a clip on top, with the clip fingers at the front and back, to the left of the previous piece.

138.5. Clip the previous piece onto the right side of the bar from step 137. The sunglasses should look like sunglasses now!

139.1. Clip the short bar of a black bar connector with a short bar on one side into both clips on the front corners of the sunglasses. Hinge these so they point up and slightly away from the sunglasses.

139.2. Push the thick side of a black short claw, with the claw pointing up and to the back, into the bar hole of both previous pieces. These are the arms of Groot's sunglasses.

140. Now the sunglasses are complete! We can put them on Groot's head. Place the flower pot in front of you with the crank at the back. Find the two clips we added to the top of Groot's face. Rotate the sunglasses so the arms point towards the back and so the bridge is at the top. Clip the bridge into the two clips. Nice! Groot has the glasses resting on his forehead, rather than covering his eyes.

Sub-build 3: Headphones

Open group 21.

141.1 Now we'll build a pair of headphones so Groot can rock out! Set the flower pot aside. Place a black 1x6x3 half arch, horizontally with the studs on the left, in front of you.

141.2. Place a black 1x1 tile with a clip on top, with the clip fingers on the left and right, on the right stud of the previous piece.

142. Place a dark gray 1x1 tile with one rounded end, with the rounded end on the left, to the left of the previous piece.

143. Find a dark gray bucket handle. This is a small piece which is shaped kind of like a letter U. The lower part of the U is a bar. Clip the bar portion into the clip. Point the arms of the handle down. These will be the brackets which hold the actual earphones.

144.1. Place a black 1x1 plate with a ring, with the ring at the front, in front of you.

144.2. Place a black 1x1 tile with a clip on top, with the clip fingers at the front and back, on the previous piece. We'll use this clip to attach the headphones to Groot's head!

144.3. Rotate the half arch so it lays in front of you with the bucket handle assembly at the front right. The back left should be an anti-stud. Rotate the 1x1 ring plate so the ring is at the bottom, the plate is upright, and the tile with the clip is at the front. Attach the stud on the right side of the ring to the back left anti-stud of the half arch.

145. Repeat steps 141.1-143. Attach it to the ring symmetrically to the first half arch. The headphones should form the top half of a circle.

146.1. Now we'll build the actual earphones themselves. Place a red 2x2 round plate with a rounded bottom in front of you.

146.2. Place a red 2x2 round tile with a single stud on the previous piece.

146.3. Place a black 4x4 dish on the previous piece.

146.4. Repeat steps 146.1-146.3.

146.5. Rotate one earphone so the stud is on the left. Place it on the front anti-stud on the left arm of the headphones. This should be opposite of a dark gray 1x1 tile with a rounded end. Repeat symmetrically on the right side.

147. Place Groot in his flower pot back in front of you. This will be tricky, but feel on the top of the head until you find a horizontal bar. It will be near the back of the head, between two angled claws. Rotate the headphones so the earphones are at the bottom, and the clip is at the front pointing down. Clip them onto the bar.

Open group 22.

148. Now we'll give Groot a little bit more foliage! This is optional and might be kind of tricky. Push the hollow stud of a light blue 1x1 round plate with a flower petal onto two of the wavy flower stems on top of Groot's head. These are the ones in front of the clip for the headphones if you're using those.

149.1. Now we'll add some more to Groot's arms. Place a green 1x1 round tile with a short bar sticking up in front of you.

149.2. Find a green stem with a branch. This piece has a cylinder with a bar on top, and a short branch with a stud on top. Push the hole on the bottom onto the bar on top of the previous piece.

149.3. Place a green 1x1 round plate with three leaves, with the leaves pointing to the right, on the stud of the previous piece.

149.4. Repeat steps 149.1-149.3.

149.5. Push the bottom of a small plant with three leaves into the hollow stud of the leaves of one of the assemblies from step 149.4.

149.6. Place a light blue 1x1 round plate with a flower petal pattern on the leaves of the other assembly from step 149.4.

149.7. Find the 1x2 jumper plate on Groot's left arm. Place the assembly with the plant on this piece. Place the one with the flower on the right arm.

150. There are a few extra green leaf pieces you can use to decorate Groot! You can also take off the bottom four rows of the left and right sides of the flower pot to store anything, including the sunglasses, extra plants, or nameplates! There is a bar sticking up from the left side of the flower pot that the headphones can clip into. This completes the Dancing Groot build!

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