Construction manual

Bouncing Octopus 1m and 1.6m head diameter

This guide is based on the Bouncing Buddy Octopus, which was developed in the series Bouncing Buddies 2012 by me in my work as a product developer for Invento Products & Services GmbH (also known as HQ-Kites).

The idea to turn this little Bouncing Buddy Octopus into a larger, **inflatable** sculpture came from Stephan Berndzen, with whom I then exchanged ideas last year to complete this building instruction. Thanks also to Bernd von Ahnen, who consulted with Stephan.

Invento Products & Services GmbH allows me to publish this plan, but does not provide any support. So please do not call my colleagues if something is not clear, they are not responsible for it. ☺

Stephan recently founded a Facebook group on this construction management.
Workshop Octopus: https://www.facebook.com/groups/830706151008698

We are happy to help here, but we also have to work or need work, so we don't provide round-the-clock support. ☺

Regards

Rainer

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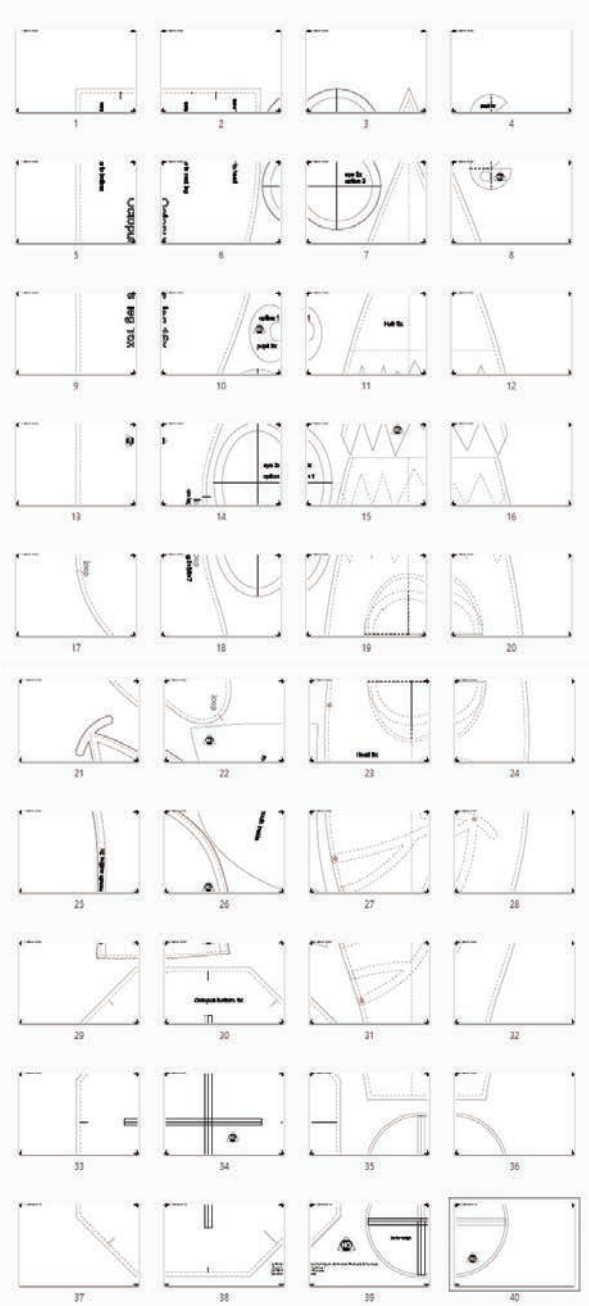
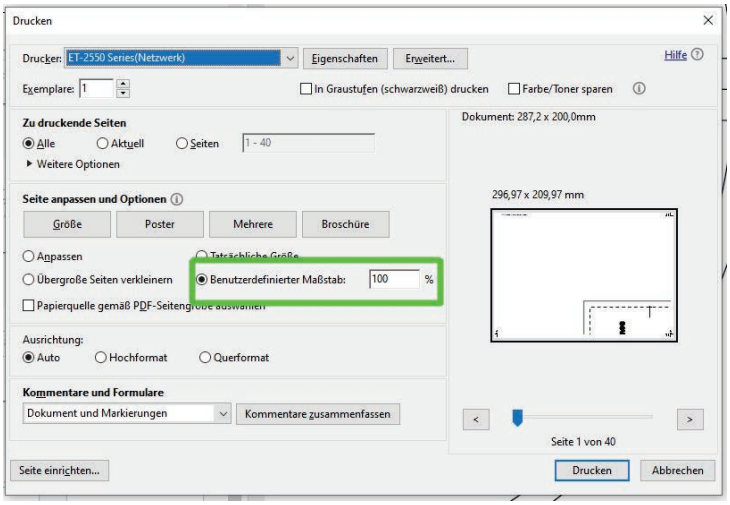
Templates

I have prepared 2 PDF files for both sizes of the Octopus.

1. Paper width 90 cm. The template can be printed with a large format printer.
2. Paper size A4 with 5 mm overlap. These can be printed on any A4 printer.
   This gives you a thick pile of paper at the end, which you have to stick together carefully.

Here as an example the overview of the leaves for the Octopus 1 m.
When printing, make it mandatory to set the size to 100% in the printer driver window.
Due to different edge widths of individual printers, I have reduced the paper size somewhat to prevent the cut of the passer marks.





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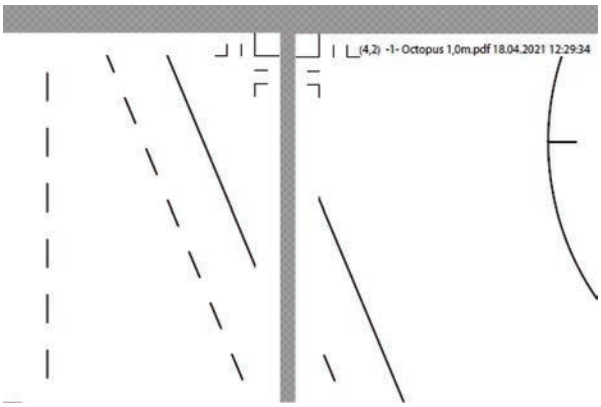
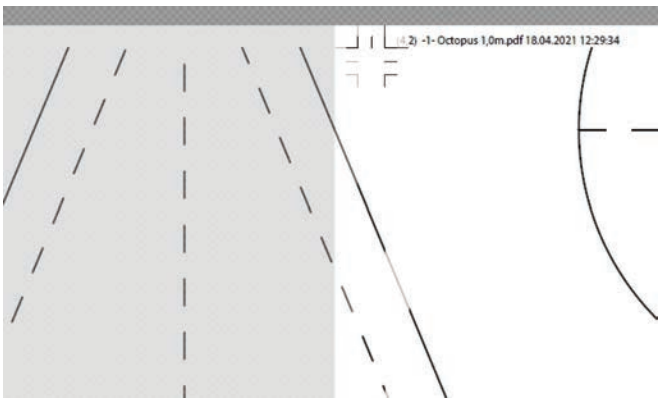
A4 pages mount

Place the registration marks horizontally and vertically on top of each other and then glue the sides.





Sewing allowance

All parts in the template with a double line have a seam addition of 10 mm.
Parts that are placed on a different panel and applied have no sewing allowance.

Eyes, mouth and hair

To create a complete template, I have pictured here a set of eyes, mouth and hair.
Please get a little creative here and create your own faces and haircuts.
Not all octopods should look the same.

Good suggestions for faces can be found on **emoji pages** on the Internet.

Cutting:

Everyone does it the way they want.
I myself am not a fan of cutting all the parts hot with the soldering iron.
I have known the smell of burnt spinnaker for 30 years now and still don't like it.
I cut almost everything with the knife and only if it is absolutely necessary, with a hot chime.

Air intake - zipper

In one of the head or foot panels on the back, a zipper or air inlet for the blower should be incorporated.
This opening is also used to turn the head from the inside out after completion of the sewing work.
Everyone has their own technique for this, so no detailed instructions on this topic.

Example zipper in the foot

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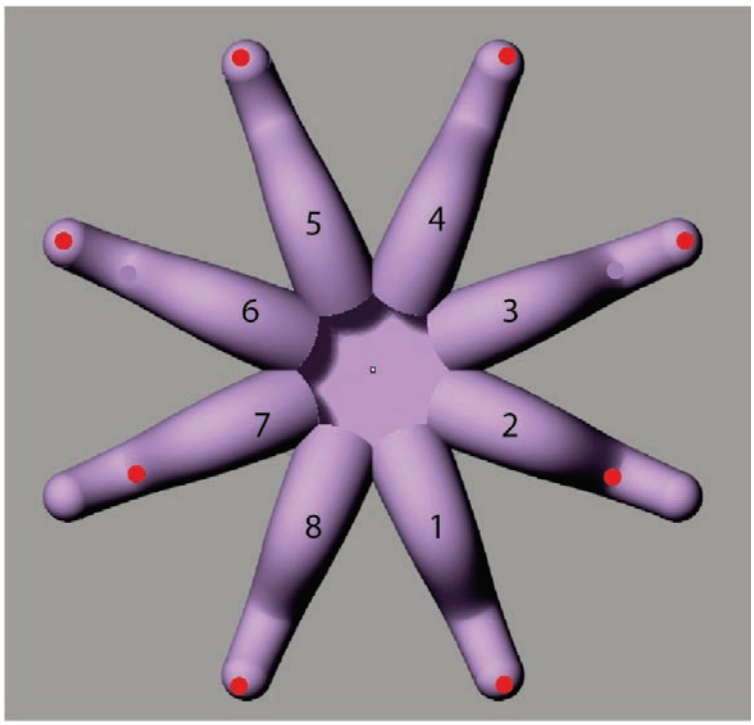
Bottom

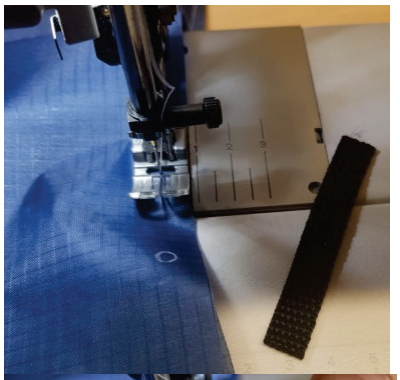
The bottom consists of an octagonal part.2 piece of Velcro need to be sewn over cross in the center. This stipes later holds the bag with the weight in position.
I often use a bag with a drawstring for the weight in which I store the necessary weight then = sand in a polybag. The advantage is that the sand can be disposed of on site and everything remains clean.

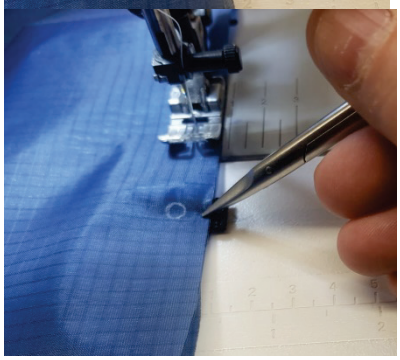
Feet and loops for the scales

16 parts of the foot part are needed.
2 parts are sewn together to one foot. All feet need a loop at the bottom in order to attach ground anchors etc. later if necessary.
At the top, 2 loops can be sewn on each side as marked. However, only one loop is required at a time in order to attach a part of the scale there later.

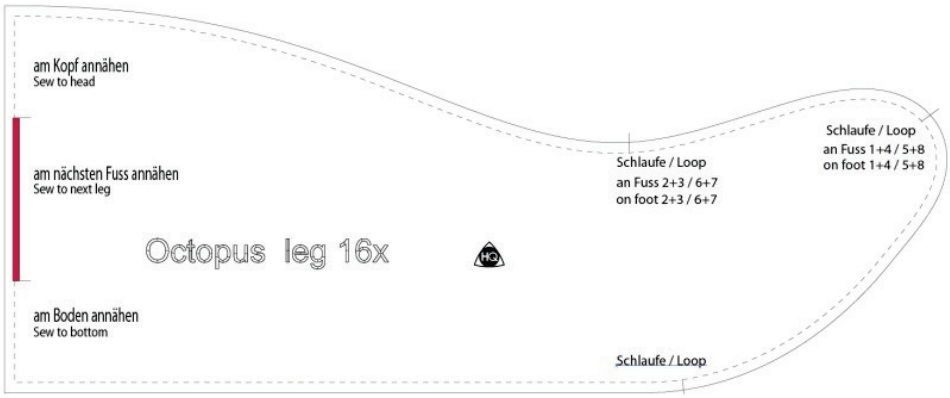
The positions of the required loops as marked in **red** as in the following drawing.







After all 8 feet are sewn together, they are sewn together in the correct order, at the red marked edge, to a circle.



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Sew the bottom and feet together

Now the lower edges of the feet are sewn on the bottom panel.
The result should look like this:

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Head

The 8 head panels need some preparation before are all sewn together.

Hair

Think up a nice haircut and fix the head panels as follows.

Mouth and eyes

Here, too, your own creativity is required.

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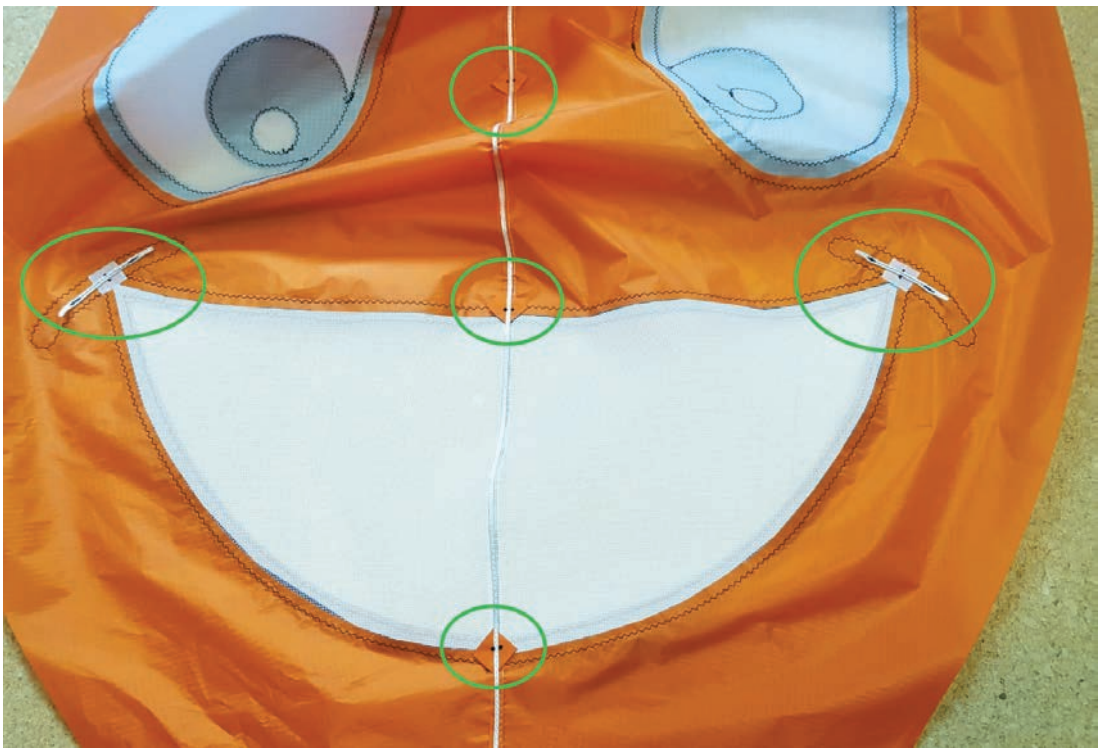
Sew face together and attach reinforcements for the bridle

After the face and hair are finished, only the two halves of the face are sewn together and then sew up a cord on the middle seam for reinforcement. Also attach reinforcements to the corners of the mouth and the places marked in the template, in order to fasten the balance from the outside later.



Sew together the remaining head panels

Now the remaining 6 head panels can be sewn together with 10 mm seam addition.
At this point again the reminder that we need a zipper of about 20 cm lengths in a rear head or foot panel.

Connect the head to the ground

Sew the head and foot part together.
This completes the sewing work. Now the entire head is turned from left to right by the zipper opening.

Now it is best to inflate the octopus with a blower (hair dryer / construction fan etc.) to control the shape. Inflated, it is also easier to place the bridle lines above the feet.

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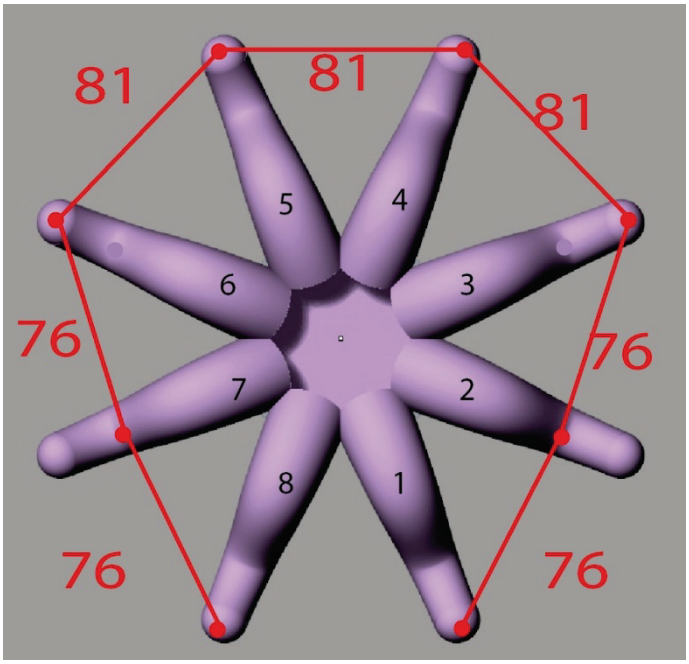
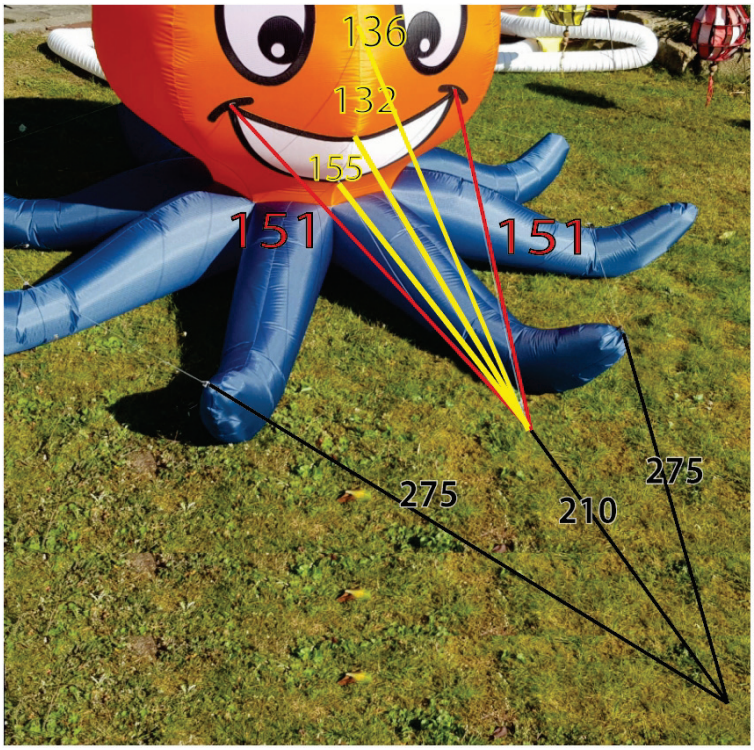
Bridle

The measurements we give here are measured by our patterns and are only approximation values. You have to add the encore for the knots for your cord yourself.

1.6m head diameter





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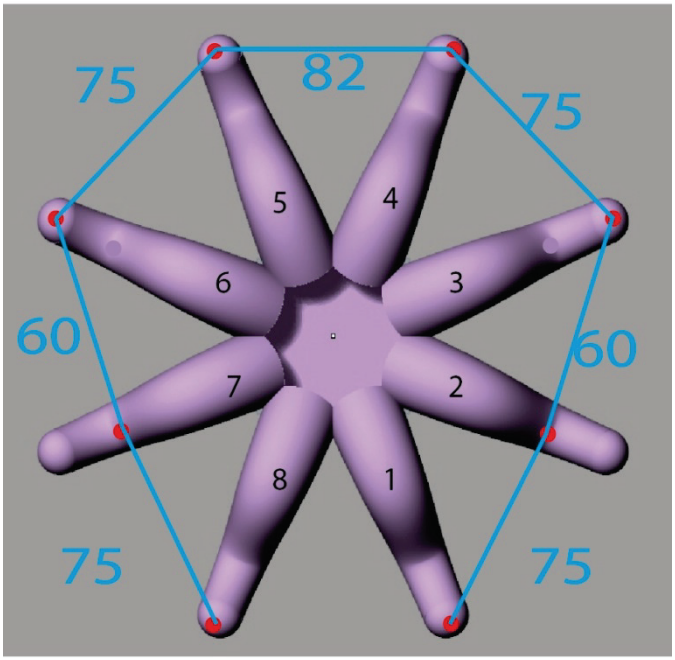
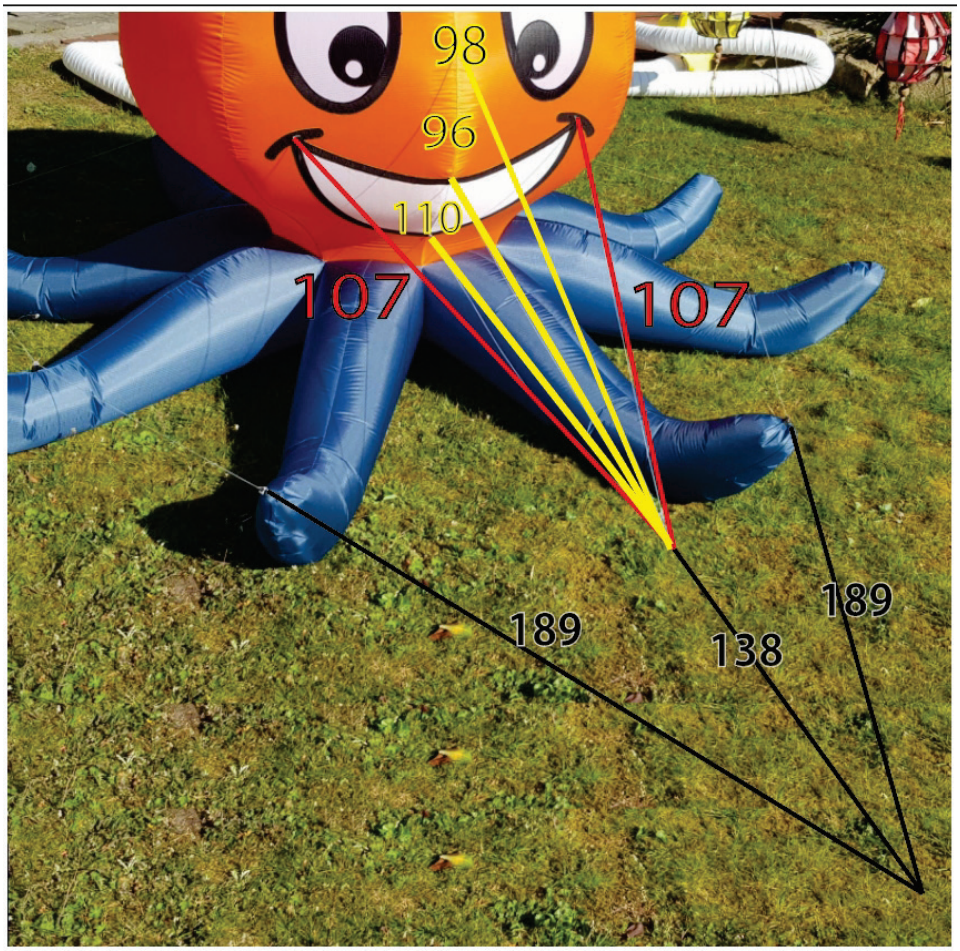
1.0 m head diameter:





In my experience, attached at least 2 feet with ground sticks to the ground when in use.

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Donate!

I've invested a lot of time to create this plan for you.
I would be pleased, if you would make a donation 5€ / 6 US$ or an equivalent in your currency to one of the following organization's per build Octopus .

If you live in Germany or Europe:

mpn-netzwerk e. V.
Bank für Sozialwirtschaft
IBAN: DE79 8502 0500 0003 6343 01
BIC: BFSWDE33DRE
Zweck: Octopus
www.mpn-netzwerk.de/

DKMS (ehemals **Deutsche Knochenmarkspenderdatei**)
www.dkms.de/
DKMS Spendenkonto
IBAN: DE64641500200000255556
BIC: SOLADES1TUB

For all other contrys:

Please donate to a local **cancer or stem cell transplantation charity organization.**

Have fun building and see you... somewhere on the meadow or on the beach ☺

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