## Building Trees (IX)

## The last to see the light, the first to be built

## Text and pictures by Legotron

## 3anzerbricks



For the base:

- 1 green $6 \times 6$ or $6 x 8$ plate

For the trunk:

- A variable number of brown $2 \times 2$ bricks corner.
- brown bricks $1 \times 1$ with headlight.
- 4 or more brown $2 \times 10$ plates.
- brown 1x2 plates
- brown $1 \times 4$ plates.
- brown $2 \times 2$ corner plates.
- brown slopes $333 \times 1$
- brown slopes $452 \times 1$
- brown slopes $301 \times 1 \times 2 / 3$.
- brown slopes $752 \times 1 \times 3$.
- brown $333 \times 1$ inverted slopes.
- brown $452 \times 1$ inverted slopes.
- brown $752 \times 1 \times 3$ slopes inverted

To make the branches:

- About 25-40 green plant leaves
- 

combinations of coverings so that they were interchangeable, for creating different trees with no more than changing the covering or their position. It should be possible to make this change easily and without having to remove other parts of the tree. All these ideas, after many attempts, led to the design of the tree of this article

## Parts required.

The part list is more complex than in the preceding articles, so it can be divided into two parts, structure and covering. As we have done in previous articles, we use the criterion used by the Web portal Bricklink [2]:

For the structure:

- 1 brown $2 \times 2$ brick.
- 2 brown $2 \times 2$ round plates
- 1 brown $2 \times 2$ round brick.
- 6 dark bluish gray $2 \times 2$ plates
- 8 dark bluish gray $1 \times 2$ technic brick with holes.
- 16 technic pin $1 / 2$ (any colour)


## Construction.

The first part of this construction is quite simple; you have to build the main structure of the tree. We start joining the brown $2 \times 2$ round plates with the $2 \times 2$ round brick. Over these we place two $1 \times 2$ technic brick with holes, adding the four technic pin 1 / 2 in their holes with their heads pointing outward. Then we put $22 \times 2$ plates and $21 \times 2$ technic bricks with holes, over those, turned 90 degrees from the previous ones, so that the heads of the technic pin 1 / 2 point away on all four sides. Next we put 2 new $2 \times 2$ plates and $21 \times 2$ technic bricks with holes turned again $90^{\circ}$ from the previous ones. We repeat the process again, so we can see on each side 2 pairs of pins at different heights. All this is crowned with the brown $2 \times 2$ brick. This is the structure on which we will mount the various elements that give shape to the tree.

For the next stage we take the $2 \times 10$ plates. At one end we place a $3 \times 1$ or $2 \times 1$ slope to represent the roots, and along the plate we put any combination of plates acting as roughness and irregularities of the trunk. The drawing has to be different in each of the plates to give it a non-symmetrical look. At the top we build the branches, starting from the slopes and $2 \times 2$ corner bricks, so that the shape of the branch is as irregular as possible. All terminations have to be finished with a $1 \times 1$ brick with headlight, which is where we start putting the leaves. The more irregular and more completions we place at a branch the more attachment points for the leaves we have. Finally we place a few $1 \times 1 \times 2$ / 3 slopes 30 to round off the look of the branches. Four of these plates can be placed in a structure, so we can have a few plates to make different trees with the same structure. We can build some with leaves and others without, some almost flat and with very small branches and other with large bumps and very intricate branches. Since their placement on the structure is very simple we can change easily. In addition we can build them individually before putting them into the structure, and so avoid bumping against the rest of the tree. As shown in the photos, this technique allows many possibilities and you just have to change one of the side plates to make the tree look completely different. The finishing touch is to end the central part of the tree, which can be left clear or crowned with a few pieces to add more leaves. This type of trees (e.g. fig trees) are not very dense and stand out because
of their irregular trunks and branches. It is not necessary to use a lot of leaves, enough to add 2 to 4 leaves on each end, above and below, to give it the desired look.
The bottom allows the tree to fit on a plate, although this connection is not too strong and should be reinforced with good roots. If used on a smooth surface it is desirable to remove one of the two $2 \times 2$ round plates from the bottom.

## References:

[1] SNOT: Studs Not On Top.
[2] Unofficial LEGO® selling Portal on the Internet: http://www. bricklink.com
\#



46

