Roblox Characters

Recommended for middle school +, or elementary students with prior BlocksCAD/coding experience.
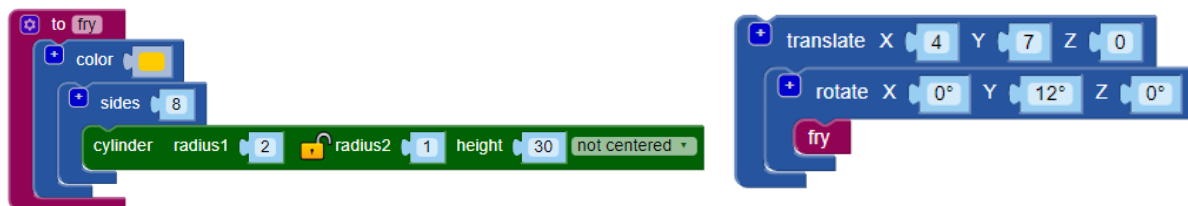
Students: Visit www.blockscad3d.com to start building! Create an account if you want to save your work.

Teachers: Check out the 2023 Teacher Guide.

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One of the winners of the Roblox avatar contest - and now quite a popular character - was Gang O' Fries. This avatar is made of relatively simple geometric shapes: cylinders and cubes. You can make and customize your own in BlocksCAD!

You'll probably want to start with the box, which you can hollow out on top using the difference block. Then you can add 3D text to the front.
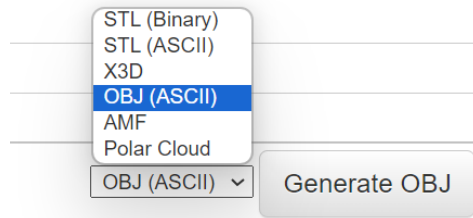
To add the fries, you'll want lots of cylinders. Let's say you made all these cylinders, but then decide you want them skinnier or taller or a different color. If you made them each separately, you'd have to go back through all your code and change each fry. Instead, you can just make one instruction for how to make a fry, called a module. Then from the modules menu you'll have a new block called "fry" that you can translate and rotate into place for each new fry. That way to make changes to all of them you only need to change your original instructions!

For projects like this with lots of code, make sure to use labeling and collapsing to keep your code organized!

Challenge Project: Accessories

There are all sorts of Roblox objects and accessories that you can design or customize in BlocksCAD. Explore the Roblox catalog for ideas! You can make your objects in BlocksCAD just for fun, or you can export them as an OBJ file and import them into Roblox Studio for actual use in the game:

Can you make some characters or accessories like these?