

Crafter-Based Item Sorting

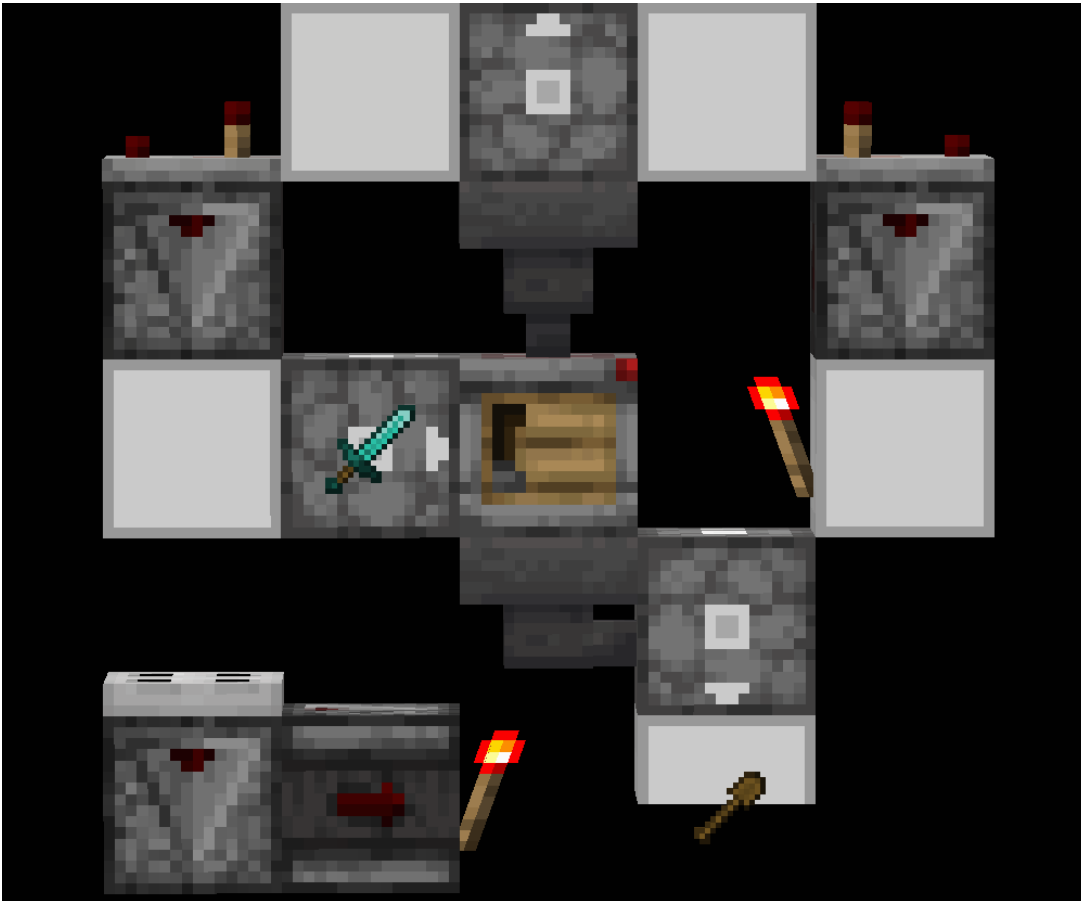
Crafters can be used to sort items via certain recipes that make it simple to check if it has succeeded. While its theoretically possible to destructively sort any item that is used in a recipe, doing so would be wildly impractical.

Nonstackable Sorting

Voiders

A voider attempts to craft an inputted nonstackable with a tool (aka an item with a durability bar) stored inside of the voider. If the inputted item matches the set tool (shown as a diamond sword in the image), they will be crafted together into a single tool using the crafting repair mechanic, destructively sorting it out. If the craft fails, the inputted item is removed from the crafter in time for the next input.

The following image is an example of a 1wt voider (by BigCitrusFruit). Note that 2wt voiders are significantly more versatile, as they can be set up sequentially to void a list of nonstackables.



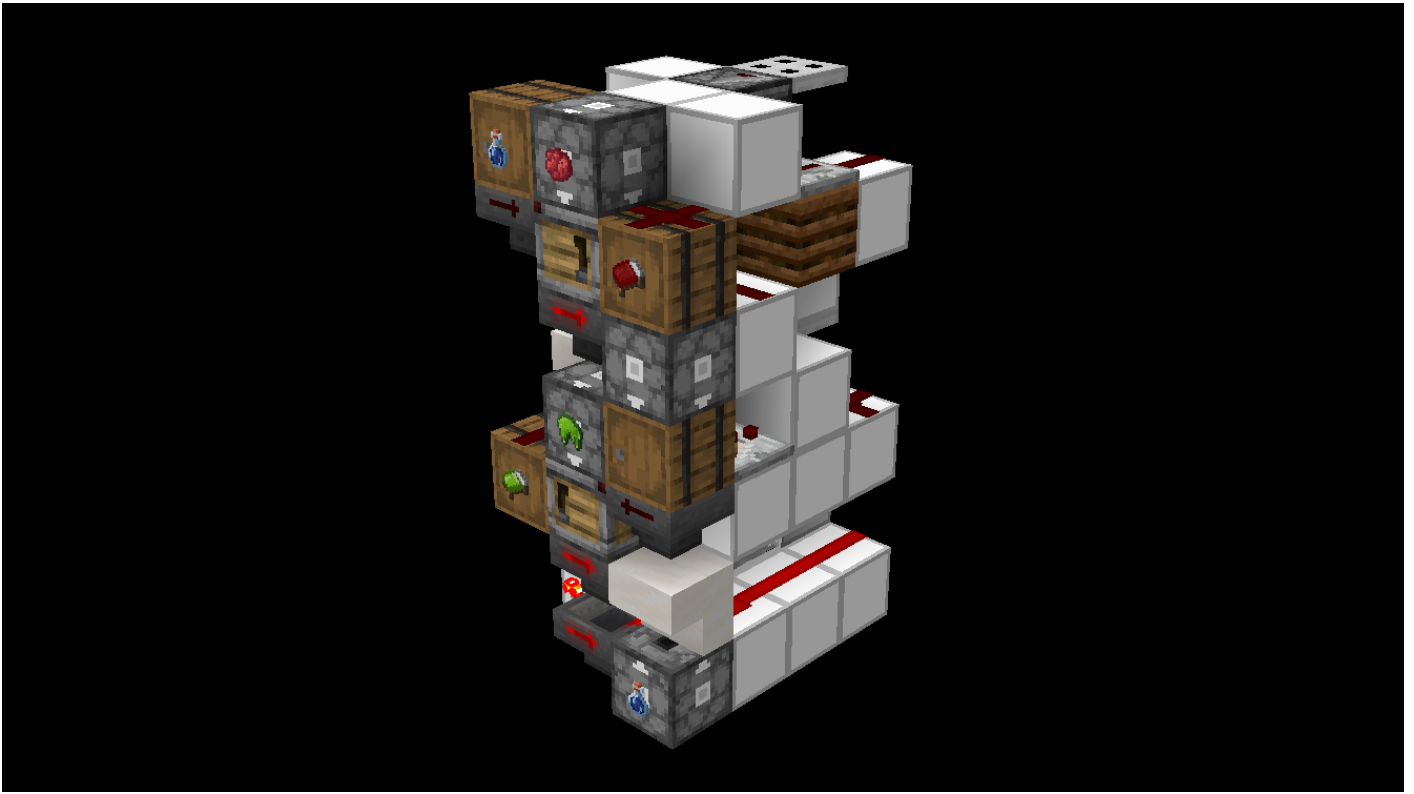
Dye Sorting

Some items may be partially destructively sorted by using the fact that they may be dyed. All inputted items are attempted to be dyed an initial colour, and any that succeed are separated at the crafter's output. Failed crafts are removed before the next input. Any failed crafts in the first stage are also attempted to be dyed again with a different color from the first stage. This is because an item that is dyed cannot be dyed its color. Any succeeded crafts are merged with the output from the first stage. Failed crafts are removed before the next input from the first stage.

There are multiple items that can be sorted with dye sorting, but only shulker boxes can be automatically separated afterwards. The list is as follows:

- Shulker Boxes
- Beds
- Bundles

The following image is an example of a dye sorter by FireBee.



Shields

Shields may be sorted with a very similar method to dye sorting, except by combining the shield with a banner. This is a destructive sorting method, as shields cannot be separated from a banner after they are combined. Note that shields already attached to a banner cannot be sorted. This is technically a combination sorting method, so any combination sorter design will allow this if given banners as input. Please do not sort shields like this.

Miscellaneous Crafter Sorting

Combination Sorting

Please note that combination sorting, with the exception of dye sorting, is quite impractical, and can mostly be replaced with normal item sorters.

- Cobblestone and stone bricks may be combined with moss or vines to make their mossy versions and sort out those blocks specifically.
Unwaxed copper may be combined with honeycomb in a crafter to wax them and sort those blocks specifically
- Written books may be combined with book and quills up to 2 times. This copies the book and technically sorts it. Note that books that have been copied more than 2 times in a row cannot be sorted.
- Activated maps may be combined with unopened maps to copy them. This copies the map and technically sorts it.

The image below is an example of a combination sorter by FireBee. The orange dye may be replaced with any combination sorting input, and the orange bed is the "sorted" item output.



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