

Tech Dictionary (WIP)

A single dictionary containing ALL definitions, abbreviations, etc.

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Tech Dictionary (content will be moved to individual pages)

A			
Advanced Automation	AA	SMP	A technical Minecraft Server well known for its perimeters and origins. More info in Community Shelf .
AB Tileable / A/B Tileable	AB	Descriptor	A term used to describe a contraption's tileability . The contraption will have two slices, an A slice and a B slice. The slices alternate to achieve a working state.
Area of Effect	aoe	Term	A term used to describe a function which affects a given area. This term is mostly used in villager tech.
Aligner		Term	A block with a collision box less than a full block used to align items such as chests, sea pickles, or cake.

B			
Name	Abbr.	Tag	Description

Batcher		Contraption	A contraption used for storage tech that groups items together periodically before releasing them into an item stream.
Blocks per second	bps	Descriptor	A term used to describe an entity's speed, or how fast a contraption can move an entity.
Block Update Detector	BUD	Contraption	
Binary		Term	
Box Comparer		Contraption	
Box Display		Contraption	
Box Separator		Contraption	
Box Sorter		Contraption	
Bulk Storage		Contraption	

C			
Name	Abbr.	Tag	Description
Chest Hall		Contraption	
Creative Multiplayer	CMP	Server	A multiplayer server with the primary gamemode being Creative. In tmc, this is mostly used for collaboration i designing new tech.
Comparator Update Detector	CUD	Contraption	

D

Name	Abbr.	Tag	Description
Decoder		Contraption	
Digsort		Contraption	A storage system designed to process and sort natural resources from mining a Perimeter .
Directional		Term	
Double Piston Extender	dpe	Contraption	A contraption that extends a block 2 blocks of distance before returning it.
Dr Jan Cyan	DJC	User Youtuber	A well known betmc player who made early discoveries in mob farming.
Drops per Hour	dph	Descriptor	A term used to measure the speed of a farm marked by the number of items it produces in an hour.

E

Name	Abbr.	Tag	Description
Encoded		Descriptor	
Encoder		Contraption	
Engine		Contraption	

F

Name	Abbr.	Tag	Description
Flying Machine		Contraption	A contraption that moves automatically by pistons pushing and pulling a set of blocks joined together by either slime or honey.
Fully Hopper Locked	FHL	Descriptor	A term used to describe a contraption that locks ALL hoppers when not in use.
Fill Sorter		Contraption	
Filtered Loader		Contraption	
Fixed Loader		Contraption	

G

Name	Abbr.	Tag	Description
General Mob Farm	gmf	Farm	A mob farm that produces and harvests loot from the basic overworld environmental mobs (zombie, skeleton, spider, creeper, witch).
Global Mob Cap		Game Mechanic	The mob cap that affects the entire world. When full, no mobs can spawn. n=200.
Golden Helmet	gh	User	A well known technical contributor and designer, and a moderator for the Minecraft bug tracker.

Gravity Block Conversion	gbc	Tech Mechanic Contraption	An exploit that converts a Gravity Block into a random item by pushing a block into an end gateway. This process can only be done in versions before 1.16.100.
Gravity Block Duping	gbd	Tech Mechanic Contraption	An exploit that allows Gravity Blocks to duplicate its falling entity form by pushing the entity into unloaded chunks. This can be done using simulation distance, end gateways, or (only works in versions before 1.16.100) end portals.
Gametick	gt	Game Mechanic	The term which refers to the process of code being executed. There are 20gt in 1 second.

H

Name	Abbr.	Tag	Description
Hopper Speed	hs	Descriptor	A term used to refer to the speed of how fast a contraption can transfer items.
Hardcoded Spawning Area	hsa	Game Mechanic	The chunks given to a structure in which the structure is placed in and certain mobs are able to spawn.
Hardcoded Spawning Spot	hss	Game Mechanic	A specific set of coordinates where mobs are able to spawn inside of structures. There exists 1 hss for every 1 hsa.

I

K			
Name	Abbr.	Tag	Description
Keygen		Contraption	

L			
Latch		Contraption	
Loader		Contraption	A contraption that loads items into a shulker box and breaks it when full. This is done to store more efficiently in less space.
Local Mob Cap (Density Mob Cap)		Game Mechanic	Smaller mob caps that exist around players. Mobs have different mob caps they can fall under which are different sizes.
Liquid Update Detector	LUD	Contraption	

M

Description

O			
Name	Abbr.	Tag	Description
Overworld Only	owo	Descriptor	A term used to describe a farm that only works in the overworld.

P			
Name	Abbr.	Tag	Description
Pair Sorter		Contraption	
Passive Mob Farm		Farm	A mob farm that only spawns and harvests passive mobs such as cows and sheep.
Perimeter		Term	A large area of the world mined out with the purpose to reduce passive lag and prevent mob spawning.
Peripheral		Contraption Term	

Point of Interest	poi	Term	Blocks that villagers can claim and interact with. Includes beds, bells, and workstations.
Precision Loader		Contraption	

Q			
Name	Abbr.	Tag	Description
Quarry		Contraption	A Flying Machine that shoots TNT to destroy an area of the world, and collects the items.

R			
Name	Abbr.	Tag	Description
Redstone Tick	rt	Game Mechanic	

S			
Name	Abbr.	Tag	Description
Sequential Sorter		Contraption	

Shulker Box Sorter	sbs	Contraption	
Signal Strength	ss	Term	The strength of a Redstone line. Ranges from 0-15
Silent		Descriptor	A term that means a contraption does not make any sound when in use.
Simulation Distance	sim distance	Game Mechanic Descriptor	The amount of chunks that is loaded around the player which can be changed in world settings. This can also be used as a term to describe what simulation distance a specific farm requires to operate.
Slice Preservation		Descriptor	
Soft Inversion	si	Tech Mechanic	A discovery made that a Redstone torch placed on a piston will turn off when the piston is powered.
Smart Box Display		Contraption	A Box Display that will only break the display box when the box is empty and closed.
Splitter		Contraption	
Sold State	ss	Descriptor	
Stratos		SMP	A bedrock tech server well known for GBC and advanced contraptions.
Survival Multiplayer	smp	Server	A multiplayer server where the primary gamemode is survival. in tmc, these are servers made for applying technical contraptions into survival Minecraft.

T

Name	Abbr.	Tag	Description
Technical Minecraft Community	TMC	Term	The community of Minecraft players dedicated to technical gameplay.
TechRock	TR	SMP	One of the oldest technical bedrock edition tech servers
Temp Storage		Contraption	
T-flipflop	tff	Contraption	
Toggle state		Term	
Transcoder		Contraption	
Trident Killer	tk	Contraption	A contraption that pushes a trident using pistons to kill mobs automatically without player input.

U			
Name	Abbr.	Tag	Description
Universal Tree Farm	UTF	Farm	A tree farm that can grow and harvest Oak, Spruce, Birch, Jungle, Acacia, and Cherry Trees.
Unloading Array		Contraption	
Unstackable Filter (Nonstackable Filter)		Contraption	A contraption that filters stackable items from nonstackable items

Unstackable Sorter (Nonstackable Sorter)		Contraption	A contraption that sorts nonstackable items based on different properties each item possesses.
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V

Name	Abbr.	Tag	Description
Variable Sorter		Contraption	
Village		Game Mechanic	An area where villager data is stored and allows villagers to complete certain functions. Created by a villager claiming a bed.
Village Merging		Game Mechanic	A process where two villages will merge into one when their boundaries are too close. The villagers will transfer into the village that isn't destroyed.
Village Stacking		Tech Mechanic	The process of moving two or more villages closer than what their boundaries allow to prevent Village Merging .
Village Stretching		Game Mechanic	A process where the boundaries of a village are expanded by placing POI near the edge of the village.

W

Name	Abbr.	Tag	Description
World Eater		Contraption	A Flying Machine that drops TNT onto a section of world that is planned to be destroyed.
World Download	wdl	Term	A term given to an exported world with the intent for other players to download and use it.

X			
Name	Abbr.	Tag	Description
Xploit		SMP	A bedrock edition tech server well known for its players and advanced farms.

Y			
Name	Abbr.	Tag	Description

A

AA - Advanced Automation

Advanced Automation, also known as AA, is a technical SMP that was founded in March 2018 by Zundappchef. The server stood out as one of the only tech SMP's to be hosted using a Realm, which allowed console and mobile players to access the server more easily at the time. Due to some internal conflict, the server was reset and a new set of members were recruited in May 2019. Due to the SMP being hosted on a Real, the server had the interesting challenge of having to design farms and redstone contraptions to run on the lower powered official Real servers. Realms also affected mob farming as they were reduced to a smaller simulation distance and mob spawning radius.

WIP

B

Box loader

Box loaders are a common storage tech contraption that takes in items and "loads" them into a shulker box using hoppers or droppers. They can be used to compact items into smaller spaces and make handling items easier for both the player and storage systems.

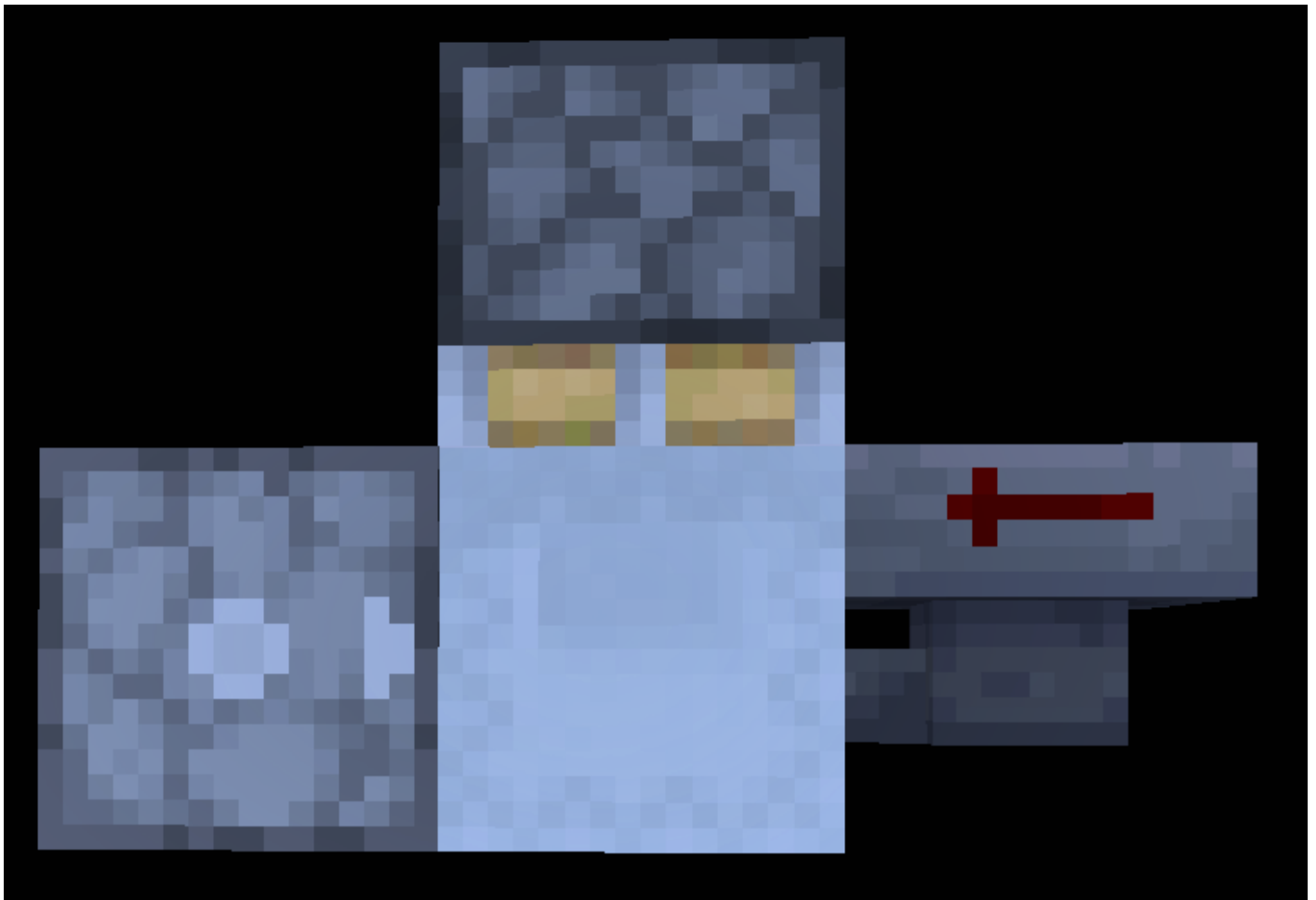
Fundamental Mechanics:

It is useful (and often required) when designing loaders to know how filters work. Please see [this page](#) for an in-depth explanation of item filters. Second, you need to know how shulker boxes are automatically placed and broken in the world. [This page](#) explains that.

For a box loader to function, there are three components that need to interact with the box to be loaded.

1. A dispenser to place new empty boxes when one fills up,
2. A hopper/dropper to fill the box with items from the loader's input,
3. A piston to break the box once it fills up.

The image below shows a common layout for a single-hopper speed loader that includes all three of these components



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