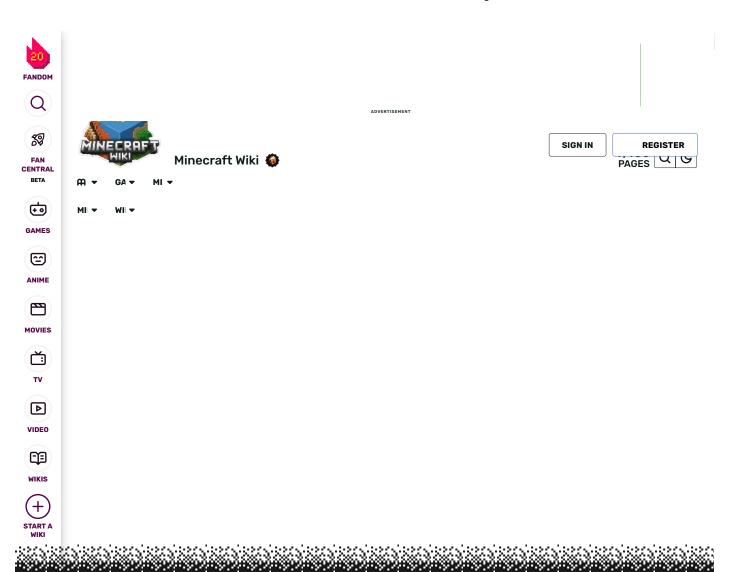
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This article is about the block that produces single musical notes. For the block that plays music discs, see Jukebox.

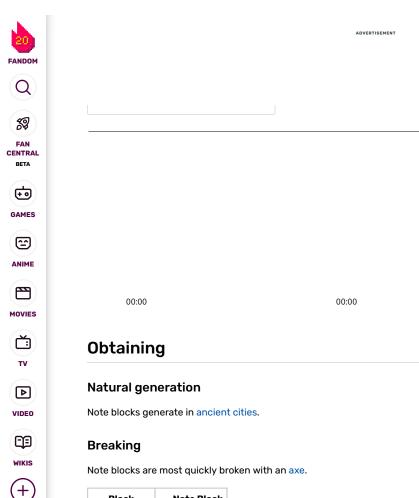
A note block is a block that emits sounds when attacked, used or powered with redstone. The sound produced can be altered in various ways by using it or putting certain blocks directly above or below it. A note block's sound played repeatedly can be used to direct allays to stay nearby and drop collected items near it.



### **:**≣ Contents

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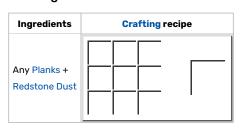
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Block	Note Block
Hardness	0.8
Tool	
Breakin	g time <sup>[A]</sup>
Default	1.2
Wooden	0.6
Stone	0.3
Iron	0.2
Diamond	0.15
Netherite	0.15
Golden	0.1

 Times are for unenchanted tools as wielded by players with no status effects, measured in seconds. For more information, see Breaking § Speed.

# Crafting



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Note blocks play a musical note when hit (pressing the attack button) or powered by redstone. A note block must have air in the space directly above it to play a sound. Notes can be heard up to 48 blocks away. The volume of a note block decreases as the player gets further away from it. The volume of note blocks (as well as jukeboxes) can be independently controlled by the Jukebox/Note Blocks slider in the audio settings.



A note block being triggered and playing a note

Note blocks play when on or next to a powered block. Each time a note block plays a note, a note particle may fly out of the top (if pressed too fast, notes may not appear), with the color depending on the pitch (but not the instrument).

There are 16 different instruments and 25 different pitches per instrument. Pressing the <u>use button</u> on the block increases the note pitch up a semitone, with a total of two full octaves and a semitone (25 semitones in total) being available for each instrument. The standard range (for harp and pling instruments) of notes span from  $F\sharp_3$  to  $F\sharp_5$ . After reaching the highest note, pressing use again resets the pitch back to  $F\sharp_3$ , as does breaking the block and picking it back up.

The string bass and didgeridoo are two octaves (24 semitones) lower than the standard range, the guitar is one octave (12 semitones) lower than the standard range, the flute is one octave above the standard range, and the bells, chimes, and xylophone are 2 octaves above the standard range. This gives the player six octaves (72 semitones) of effective range to combine instruments for greater pitch coverage.

The exact pitch can be found from its <u>use</u>-count by using the following formula:  $2 ^ ((use count - 12) / 12)$ .

The exact pitch to <u>use</u>-count assignment is shown below, <sup>[1][2]</sup> along with the note's color, which is rendered with shading using the particle's texture.

Pitch (Octave 1)	Use Count	Pitch (/ playsound)	Color ( <u>hex</u> )	Pitch (Octave 2)	Use Count	Pitch (/ playsound)	Color (hex)
F♯/G♭- Fi/Se	0	0.5	_#77D700	F♯/G♭- Fi/Se	12	1.0	_#8600CC
G - Sol	1	2^(-11/12) ≈ 0.529732	#95C000	G - Sol	13	2^(1/12) ≈ 1.059463	_#5B00E7
G♯/A♭- Si/Le	2	2^(-10/12) ≈ 0.561231	#B2A500	G♯/A♭- Si/Le	14	2^(2/12) ≈ 1.122462	_#2D00F9
A - La	3	2^(-9/12) ≈ 0.594604	_#CC8600	A - La	15	2^(3/12) ≈ 1.189207	_#020AFE
A♯/B♭- Li/Te	4	2^(-8/12) ≈ 0.629961	#E26500	A♯/B♭- Li/Te	16	2^(4/12) ≈ 1.259921	_#0037F6
B - Ti	5	2^(-7/12) ≈ 0.667420	_#F34100	B - Ti	17	2^(5/12) ≈ 1.334840	_#0068E0

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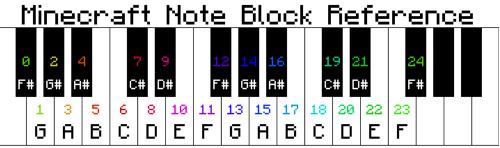






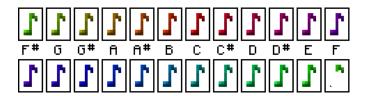
п - ке	8	0.793701	□#F/0033	п - ке	20	≈ 1.587401	□#00E958
D♯/E♭- Ri/Me	9	2^(-3/12) ≈ 0.840896	#E8005A	D♯/E♭- Ri/Me	21	2^(9/12) ≈ 1.681793	#00FC21
E - Mi	10	2^(-2/12) ≈ 0.890899	#CF0083	E - Mi	22	2^(10/12) ≈ 1.781797	_#1FFC00
F - Fa	11	2^(-1/12) ≈ 0.943874	#AE00A9	F - Fa	23	2^(11/12) ≈ 1.887749	#59E800
F♯/G♭- Fi/Se	12	1.0	#8600CC	F♯/G♭- Fi/Se	24	2.0	_#94C100

Alternatively, there is a graphical version available:



Colored numbers represent the number of right-clicks needed to set the note

Players can roughly check the tuning of a block by looking at the note icon.



In *Java Edition*, the tuning can also be checked by looking at the right side of the debug screen (accessed by pressing F3). It is denoted as "note:" followed by a number from 0 to 24.

# Instruments

The instrument played depends on the material of the block underneath the note block. Note that these are groups of blocks defined by the code, not just the individual block.

#### Mob heads

When a mob head is placed on top of a note block, the sound made by the note block will instead be that of the corresponding mob's ambient sound, with the exception of the creeper head, which instead causes the note block to play the primed sound.

Block	Instrument	Range	Sound event names (Java)	Sound event names (Bedrock)
Material: Wood	Bass (String Bass)	F# <sub>1</sub> -F# <sub>3</sub>	block.note_block.bass	note.bass
Material: Sand, Gravel, Concrete Powder	Snare Drum	_	block.note_block.snare	note.snare

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Obsidian, Quartz, Sandstone, Ores, Bricks, Corals,	Orum (Kick)	_		
Bricks, Corals,		_	block.note_block.basedrum	note.bd
Respawn Anchor,				
Bedrock, Concrete,				
Observer				
Block of Gold Bells (	Glockenspiel)	F# <sub>5</sub> -F# <sub>7</sub>	block.note_block.bell	note.bell
Clay,				
Honeycomb				
Block <sup>[Bedrock Edition only]</sup> Flute		F♯ <sub>4</sub> −F♯ <sub>6</sub>	block.note_block.flute	note.flute
[3], Infested				
Block <sup>[Bedrock Edition only]</sup>				
Packed Ice Chime	s	F♯ <sub>5</sub> −F♯ <sub>7</sub>	block.note_block.chime	note.chime
Wool Guitar		F♯ <sub>2</sub> −F♯ <sub>4</sub>	block.note_block.guitar	note.guitar
Bone Block Xyloph	none	F♯ <sub>5</sub> −F♯ <sub>7</sub>	block.note_block.xylophone	note.xylophone
Iron Xy	/lophone	F.3 F.3	blask make blask iman unlambana	
Block of Iron (Vibra	phone)	F# <sub>3</sub> -F# <sub>5</sub>	block.note_block.iron_xylophone	note.iron_xylophone
Soul Sand Cow B	ell	F♯ <sub>4</sub> -F♯ <sub>6</sub>	block.note_block.cow_bell	note.cow_bell
Pumpkin Didger	ridoo	F♯ <sub>1</sub> −F♯ <sub>3</sub>	block.note_block.didgeridoo	note.didgeridoo
Block of Emerald "Bit" (S	Square wave)	F# <sub>3</sub> -F# <sub>5</sub>	block.note_block.bit	note.bit
Hay Bale Banjo		F#3-F#5	block.note_block.banjo	note.banjo
Glowstone "Pling" piano)	' (Electric	F# <sub>3</sub> -F# <sub>5</sub>	block.note_block.pling	note.pling
Skeleton Skull "Skelet	ton"	-	block.note_block.imitate.skeleton	note.skeleton
Wither Skeleton "Withe	r Skeleton"			
Skull		-	block.note_block.imitate.wither_skeleton	note.witherskeleton
Sound	event set in			
Player Head		-	Dependent	Dependent
note_	_block_sound			
Zombie Head "Zomb	ie"	-	block.note_block.imitate.zombie	note.zombie
Creeper Head "Creep	er"	-	block.note_block.imitate.creeper	note.creeper
Piglin Head "Piglin	"	-	block.note_block.imitate.piglin	note.piglin
Dragon Head "Ender	r Dragon"	-	block.note_block.imitate.ender_dragon	note.enderdragon
Any other blocks Harp /	piano	F# <sub>3</sub> -F# <sub>5</sub>	block.note_block.harp	note.harp

### Powering note blocks

Note blocks can be powered in a variety of different ways following normal redstone principles; however, some ways of powering note blocks are more convenient than others or produce unexpected results.

 When a note block is powered by a button on its side, it does play a note, but is often difficult to hear because

A pair of note blocks wired to a clock circuit to play alternately.

the sound of the button can overlap the note block.

• Because note blocks need space above them, note blocks powered by pressure plates or redstone directly above them do not make a



























instead of its player. After 30 seconds, the allay returns to targeting its player. A vibration particle emanates from the note block and reaches the allay to indicate the allay has locked on to the note block. Because the allay and the note block interact via a vibration particle, placing wool between the note block and the allay can prevent this interaction.

par. 110 a.m. 1. 10 to 2.00 a.m. 19 a.m. 10 a.

### **Fuel**

Note blocks can be used as a fuel in furnaces, smelting 1.5 items per block.

# **Sounds**

### Java Edition:

Sound	Subtitles	Source	Description	Resource location	Translation key	Volume	Pitch	[Collapse] Attenuation distance
	Block broken	Blocks	Once the block has broken	block .wood	subtitles .block .generic .break	1.0	0.8	16
	Block placed	Blocks	When the block is placed	block .wood .place	subtitles .block .generic .place	1.0	0.8	16
	Block breaking	Blocks	While the block is in the process of being broken	block .wood .hit	subtitles .block .generic	0.25	0.5	16
	None [sound 1]	Entity- Dependent	Falling on the block with fall damage	block .wood	None <sup>[sound 1]</sup>	0.5	0.75	16
	Footsteps	Entity- Dependent	Walking on the block	block .wood .step	subtitles .block .generic .footsteps	0.15	1.0	16

### 1. MC-177082

# Bedrock Edition:

Sound	Source Description		Resource location	Volume	[Collapse] Pitch
	Blocks	Once the block has broken	dig .wood	1.0	0.8-1.0
	Blocks	When the block is placed	dig .wood	1.0	0.8
	Blocks	While the block is in the process of being broken	hit .wood	0.23	0.5
	Players	Falling on the block with fall damage	fall .wood	0.4	1.0

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Playe	railing on the block without fall damage	land .wood	0.18	1.0
-------	--	------------	------	-----

# **Data values**

### ID

### Java Edition:

Name	Identifier	Form	Translation key
Note Block	note_block	Block & Item	[block.minecraft.note_block]

### Bedrock Edition:

Name	Identifier	Numeric ID	Form	Item ID <sup>[i 1]</sup>	Translation key
Note Block	noteblock	25	Block & Giveable Item <sup>[i 2]</sup>	Identical <sup>[i 3]</sup>	tile.noteblock.name

- 1. ID of block's direct item form, which is used in savegame files and addons.
- 2. Available with /give command.
- 3. The block's direct item form has the same id as the block.

Name	Savegame ID		
Block entity	Music		

# Block states

See also: Block states

### Java Edition:

Name	Default value	Allowed values	Description
instrument	harp	banjo basedrum bass bell bit chime cow_bell creeper custom_head didgeridoo dragon flute guitar harp hat iron_xylophone piglin pling skeleton snare wither skeleton	The instrument of the note block.

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note	0	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	The pitch of the note block
powered	false	false true	True if the note block is currently activated.

# Block data

In *Bedrock Edition*, a note block has a block entity associated with it that holds additional data about the block.

See Bedrock Edition level format/Block entity format.

# **Achievements**

lcon		Achievement	In-game	Actual requirements	Gamerscore	Trophy type
PS4	Other		description	(if different)	earned	(PS4)
		Birthday song	Have an Allay drop a cake at a noteblock	Tame an allay by giving it a cake while having dropped cake items and play a noteblock nearby.	10G	Bronze

# **Advancements**

con	Advancement	In-game description	Parent	Actual requirements (if different)	Resource location
				Give an allay a	
				cake and then	
				use a note block	
				to make the	
				allay drop the	

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VIDEO

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+ START A WIKI

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Note Block   in N	by the player only after completing it, regardless of if its child advancement(s), if any, have been completed.	
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# History

- Instally					
	Java Edition B	leta			
		Added note blocks.			
	1.2	Note blocks have 5 instruments: Harp, Bass, Bass drum, Snare drum, Click. Pling is also added in the sound files, but is currently unused.			
	Java Editio	n			
1.0.0	Beta 1.9 Prerelease 6	Note blocks are now broken			
1.0.0	Beta 1.9 Prerelease o	faster using an axe.			
1.2.4	release	Spruce planks, birch planks, and jungle planks can now be used to craft note blocks.			
1.7.2	1.7.1	Acacia planks and dark oak planks can now be used to craft note blocks.			
1.12	17w16a	Added sound events (but not the sounds themselves) for additional instruments (bell, chime, flute, guitar, xylophone) to note blocks.			
	17w17a	Added sounds for additional instruments to note blocks.			
1.13	17w47a	Note blocks can now be pushed by pistons.			
	18w43a	The texture of note blocks has been changed.			
1.14	19w09a	Added sounds to note blocks for additional instruments (iron xylophone, cow bell, didgeridoo, bit, banjo), and implemented the "Pling" instrument into the game.			
1.16	20w06a	Crimson planks and warped planks can now be used to craft note blocks.			
	22w11a	Mangrove planks can now be used to craft note blocks.			
	22w13a	Note blocks now generate as part of ancient cities.  Note blocks can now only be			



























AD	VE	RT	IS	EN	1E	N.

					reverted.	
1.20 (Experimental)		22w42a			Heads can now be placed on note blocks to play the respective mob sound.	
		23w03a			Heads can now be placed on note blocks without sneaking.	
			Pocket E	dition /	Alpha	
v0.1	13.0		build 1		Added note blocks.	
v0.1	15.0		build 1		Note blocks can now be moved by pistons.	
			Bedroo	k Editi	ion	
1.10	0.0	ı	oeta 1.10.0.	3	The texture of note	
1.13	3.0		beta 1.13.0.	9	Added all new note block sounds from Java Edition 1.12 and 1.14.	
Wild Update (experimental)		beta 1.18.30.22			A note block played near an allay becomes its favorite note block for 30 seconds.	
				22	Placing a block on top of a note block no longer mutes it, with the exception of wool blocks.	
1.19.0		beta 1.19.0.26		26	The previous change has been reverted.	
Next Major Update (Experimental)		beta 1.19.60.20		20	Heads can now be placed on note blocks to play the respective mob sound.	
1.20.10		beta 1.20.10.20		20	Note blocks with soul soil underneath now produces the "harp" sound instead of "snare".	
			Legacy Co	nsole E	Edition	
TU1	CU1	1.0	Patch 1	1.0.1	Added note blocks.	
TU53	CU43	1.49	Patch 23	1.0.3	Added new note block sounds.	
		1.90			The texture of note blocks has been changed.	
			lew Ninten	do zne		
		0.1.0	.c.r.rancom		Added note blocks.	

# Data history

This section is missing information about Info on the block entity used before 17w47a.

Please expand the section to include this information. Further details may exist on the talk page.

Java Edition				
		The power state of note blocks is now controlled through		
1.9	1.9 15w34a the powered tag, and therefore can now be controlled			









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GAMES





















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.13	17w47a	Note blocks are no longer block entities and instead are							
.13	1/W4/a	defined by the note, powered, and instrument block							
states.		states.							
		Prior to <i>The Flattening</i> , this block's numeral ID was 25.							

# Issues

Issues relating to "Note block" or "Noteblock" are maintained on the bug tracker. Report issues there (https://bugs.mojang.com/issues/?jql=projec t%20in%20%28MC%2C%20MCPE%29%20and%20%28resolution%20is%20 empty%20or%20resolution%20in%20%281%2C%202%2C%206%29%29%2 Oand%20%28summary%20~%20%22note%20block%22%20or%20summar y%20~%20%22noteblock%22%29%20order%20by%20resolution%20desc).

# **Trivia**

- Because a note block is a wooden type block, a note block directly on top of another one produces a string bass sound when powered.
- In Java Edition, note blocks have the second highest number of possible block state combinations, at 1150[verify], beating fire's 512 and behind redstone dust's 1296.
- In Creative mode, the only way to hit a note block to play it without breaking it or changing its pitch is by doing so while holding a sword.

# Gallery



Redstone linked to note blocks, playing a simple melody when the button is pressed.



A concept sketch tweeted by Notch depicting what would eventually become the Note Block.

# **Pixel Artwork**



napping on a Note block

sneakily on the note block.

Makena waking up startled at the sound of zombies

being played on the note

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9/4/24, 14:40 12 of 15









BETA





















- rutoriais/ keastone music/ Doorbeil
- Jukebox
- Minecraft Note Block Studio A music editor for Minecraft.

# References

- Original chart by cookingfat (http://www.minecraftforum.net/view topic.php?f=1020&t=136347)
- Original /playsound pitch chart by kwerti (http://www.minecraftfor um.net/forums/mapping-and-modding/resource-packs/resourc e-pack-discussion/1255570)
- 3. MC-212976

# **External links**

- Block of the Week: Note Block (https://www.minecraft.net/en-us/article/block-week-note-block) Minecraft.net on June 1, 2018
- Search YouTube for the many songs played on note blocks (http://w ww.youtube.com/results?search\_query=Minecraft+songs+note+blo cks&aq=f)

	Redstone
	Blocks [Collapse]
N	latural [Expand]
	Biota [Expand]
В	uilding [Expand]
	Itility [Collapse]
`	
	Anvil ( Chipped Damaged)  Barrel Beacon Brewing Stand
	Cartography Table Chest (Ender)  Chiseled Bookshelf Crafting Table
Interactable	Chiseled Bookshelf Crafting Table  Enchanting Table Fletching Table
interactable	Furnace ( Blast Smoker)
	Grindstone Lectern Loom
	Shulker Box Sign ( Hanging) Smithing Table Stonecutter
	Banners Beehive Beds Bell
,	Cake ( with Candle) Campfire
(	•
	Powder Snow Water) Composter
	Conduit End Gateway End Portal
Utilizable	End Portal Frame Farmland
	Flower Pot Frosted Ice Heads
	Item Frame ( Glow) Jukebox
	Ladder Lodestone
	Monster Spawner Nether Portal
	Respawn Anchor Scaffolding
	Sponge ( Wet) TNT
	Button Daylight Detector
	Dispenser ( Dropper) Doors
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	Honey Block Hopper Lever
	Lightning Rod Note Block

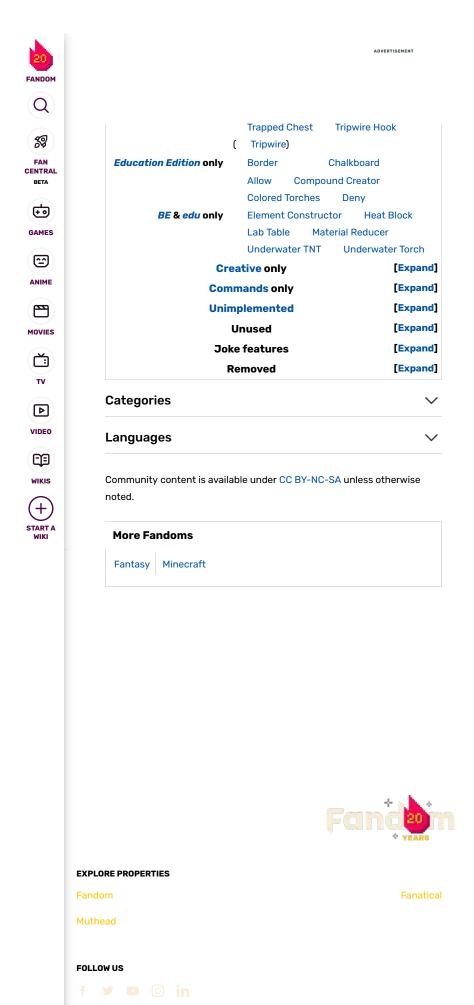
Piston ( Sticky

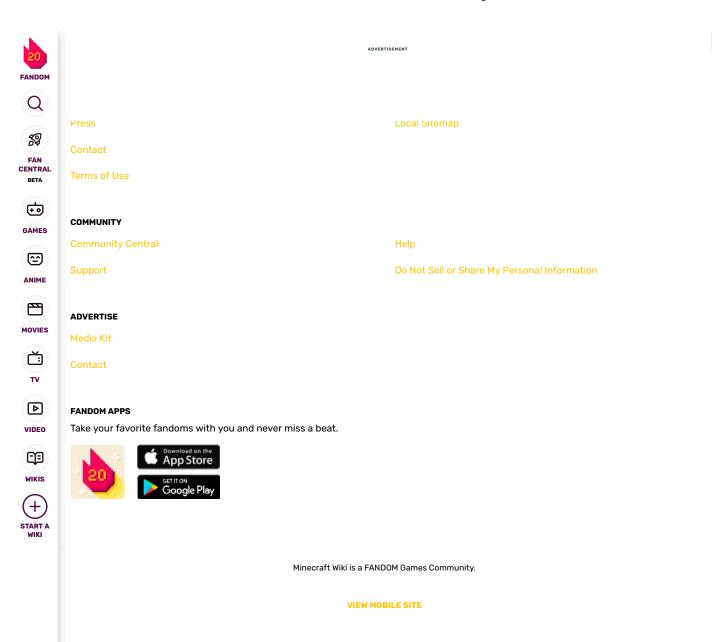
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OVERVIEW





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