

# TNT

↳ See article feedback

For other uses, see [TNT \(disambiguation\)](#).

TNT is an explosive [block](#) that can be lit by a [redstone signal](#), [flint and steel](#), [stray fire](#), [flaming projectile](#) or [explosion](#).

When lit, TNT becomes [primed TNT](#), a gravity-affected [entity](#) that produces a damaging, block-destroying [explosion](#), usually after four seconds. Blocks destroyed by TNT always drop their usual items as if mined by a player.

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TNT	
	
<b>Renewable</b>	Yes
<b>Stackable</b>	Yes (64)
<b>Tool</b>	Any tool
<b>Blast resistance</b>	0
<b>Hardness</b>	0
<b>Luminous</b>	No
<b>Transparent</b>	No
<b>Flammable</b>	Yes (15)
<b>Catches fire from lava</b>	Yes
<b>Map color (JE)</b>	<input type="checkbox"/> 4 FIRE

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## Obtaining

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### Breaking

TNT can be broken instantly with any tool or by hand. Primed TNT cannot be broken as it is an entity, but it can be removed with the /kill command.

### Natural generation

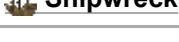
Nine TNT blocks generate naturally in each desert pyramid.

Two TNT blocks flank a trapped chest in one secret woodland mansion room.

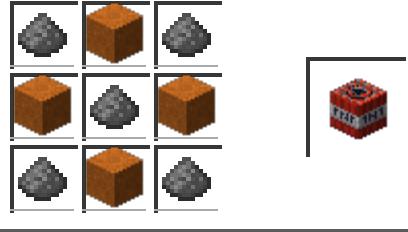
### Mob loot

An enderman holding a block of TNT drops the block upon death.

### Generated loot

Item	Structure	Container	Quantity	Chance	<a href="#">[hide]</a>
<b><i>Java Edition</i></b>					
 <b>TNT</b>	 <b>Buried Treasure</b>	Chest	1–2	62.7%	
	 <b>Desert Pyramid</b>	Suspicious sand	1	12.5%	
	 <b>Shipwreck</b>	Supply chest	1–2	7.5%	
<b><i>Bedrock Edition</i></b>					
 <b>TNT</b>	 <b>Buried Treasure</b>	Chest	1–5	62.7%	
	 <b>Desert Pyramid</b>	Suspicious sand	1	12.5%	
	 <b>Shipwreck</b>	Supply chest	1–2	7.5%	

## Crafting

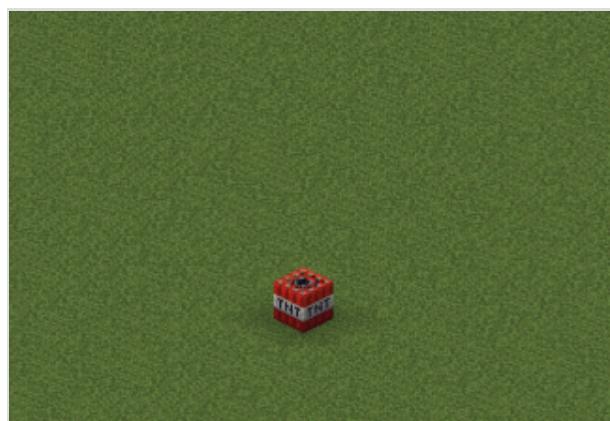
Ingredients	Crafting recipe	Description	<a href="#">[hide]</a>
Gunpowder + Sand or Red Sand		It is possible to use any combination of sand and red sand.	

## Usage

### Activation

TNT blocks can be activated by:

- Using a flint and steel or a fire charge
  - Attempting to ignite TNT while sneaking results in the block catching fire, rather than the TNT becoming primed immediately.
- Using an item enchanted with Fire Aspect [Bedrock Edition only]
- A redstone signal
- In Bedrock Edition TNT can only activate on the input/consumer redstone tick (C-tick).
- Projectiles that create fire or explosions
  - Flaming arrows
  - Fireballs
  - Small fireballs
  - Wither skulls



A TNT explosion.

- Other explosions
- Fire spreading onto the TNT block (the block burns for several seconds before activating)
- Being placed by a dispenser, or a dispenser using a flint and steel on a TNT block
- Being summoned through commands, though it will immediately explode (except in Bedrock Edition)

## Behavior

When activated, a TNT block is replaced with an entity called primed TNT that creates an explosion after an amount of time has passed. Primed TNT is affected by gravity, and can be pushed by flowing water, lava, and pistons.

The amount of time before primed TNT explodes depends on how the TNT was activated:

- If activated by fire or a redstone signal, or summoned by commands, primed TNT explodes after 80 game ticks (4 seconds).
- If activated by an explosion, primed TNT explodes after a random number of game ticks between 10 and 30 (0.5 to 1.5 seconds).

The TNT block has a display name of "TNT" in the inventory; however, it also has an in-game name of "tnt" when used in commands such as /setblock. The primed TNT entity has a display name of "primed TNT" in chat, but also has an in-game name of "tnt" when used in commands such as /summon.

### Countdown timer

Primed TNT has a data tag called fuse that acts as a countdown timer, and stores the number of game ticks until the primed TNT explodes. The timer decreases by 1 every game tick, and the Primed TNT explodes when it reaches 0. When summoned by activating a TNT block or commands, fuse is set to 80 by default, but can be modified using commands.

### Explosion

When TNT is activated, the primed TNT entity is placed offset from the bottom center of the TNT block position by [+0.5, +0.0, +0.5], and given an initial velocity of 0.2 blocks per tick upward, and 0.02 blocks per tick in a random direction. When the primed TNT explodes, the explosion is located at 0.06125 blocks above the entity's position (at  $\frac{0.98}{16}$  block height). Primed TNT creates explosions with a power of 4, which can break most blocks. Blocks destroyed by primed TNT always drop items as if mined by a player using a correct, unenchanted tool (or an empty hand if the correct tool would be shears).



**Hitbox size**

Height: 0.98 blocks  
Width: 0.98 blocks

The explosion deals a maximum of 84.5 ( $\heartsuit \times 42.25$ ) damage on Hard difficulty, 56 ( $\heartsuit \times 28$ ) damage on Normal difficulty, 29 ( $\heartsuit \times 14.5$ ) damage on Easy difficulty and high knockback to a player exposed to the explosion. TNT explosions do not damage players in Peaceful difficulty.

## Appearance

Primed TNT's texture blinks, alternating every 0.5 seconds between the TNT block's texture, and a copy of it that has been brightened to near-white. The effect is dynamic and the brightened texture can't be found in the assets.

## Portals

A primed TNT is teleported to the respective dimensions when entering a Nether portal or End portal, maintaining its fuse, direction and speed. In Java Edition, after teleporting through a nether portal, the primed TNT cannot destroy Nether portal blocks.

## Underwater behavior

*See also:* [Tutorial:Igniting TNT underwater](#)

TNT usually cannot be used to destroy blocks underwater; however, there are some circumstances in Java Edition where TNT can be made to destroy blocks underwater.

In Java Edition, if TNT is activated while a gravity-affected block (e.g. sand, or gravel) is on top of it, the block falls through the primed TNT entity, and when the primed TNT explodes, it can break blocks.

If TNT is placed on top of a block whose height is less than a full block (e.g. soul sand, honey block, etc.) and activated, the primed TNT can destroy blocks. If TNT is activated while on top of a soul sand block, a bubble column forms, but the primed TNT does not float away. Primed TNT is affected by bubble columns if summoned farther up the column, or if pushed into the bubble column by a piston.

In Bedrock Edition, TNT is unable to destroy blocks underwater by any of the above methods: falling blocks partially displace primed TNT, and primed TNT is always pushed upward by a soul sand's bubble column. There is however a variation of TNT called underwater TNT (When Education Edition option is enabled) that can destroy blocks underwater.

## Redstone component

A TNT block is considered a redstone mechanism component, and is activated when it receives a redstone signal.

TNT is a non-conductive (transparent) block and cannot be powered. When a TNT block receives a redstone signal, it does not activate any other adjacent TNT blocks via redstone, but any adjacent TNT blocks are activated by the explosion.

## Crafting ingredient

Name	Ingredients	Crafting recipe	Description	[hide]
Minecart with TNT	TNT + Minecart			
Underwater TNT	Sodium + TNT			[Bedrock Edition and Minecraft Education only]

## Sounds

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### Generic

*Java Edition:*

grass sound type									[hide]
Sound	Closed captions	Source	Description	Identifier	Translation key	Volume	Pitch	Attenuation distance	
	Block broken	Blocks	Once the block has broken	block.grass.break	subtitles.block.generic.break	1.0	0.8	16	
	Block placed		When the block is placed	block.grass.place	subtitles.block.generic.place				
	Block breaking	Blocks	While the block is in the process of being broken	block.grass.hit	subtitles.block.generic.hit	0.25	0.5	16	
	Something falls on a block		Falling on the block with fall damage	block.grass.fall	subtitles.block.generic.fall				
	Footsteps	Entity-Dependent	Walking on the block	block.grass.step	subtitles.block.generic.footsteps	0.15	1.0	16	

**Bedrock Edition:**

 grass sound type [hide]							
Sound	Closed captions [upcoming: BE 26.0]	Source	Description	Identifier	Translation key [upcoming: BE 26.0]	Volume	Pitch
	Block broken	Blocks	Once the block has broken	dig .grass	subtitles .block.generic .break	0.7	0.8–1.0
	Block placed	Blocks	When the block is placed	use .grass	subtitles .block.generic .place	0.8	0.8–1.0
	Block breaking	Blocks	While the block is in the process of being broken	hit .grass	subtitles .block.generic .hit	0.3	0.5
	Footsteps	Players	Falling on the block with fall damage	fall .grass	subtitles .block.generic .footsteps	0.4	1.0
	Footsteps	Players	Walking on the block	step .grass	subtitles .block.generic .footsteps	0.3	1.0
	Footsteps	Blocks	Jumping from the block	jump .grass	subtitles .block.generic .footsteps	0.11	1.0
	Footsteps	Blocks	Falling on the block without fall damage	land .grass	subtitles .block.generic .footsteps	0.21	1.0

**Unique****Java Edition:**

Primed TNT use the Friendly Mobs sound category for entity-dependent sound events.

Sounds [hide]								
Sound	Closed captions	Source	Description	Identifier	Translation key	Volume	Pitch	Attenuation distance
	TNT fizzes	Blocks	When a TNT block is lit	entity .tnt .primed	subtitles .entity .tnt .primed	1.0	1.0	16
	Explosion	Blocks	When a TNT block explodes	entity .generic .explode	subtitles .entity .generic .explode	4.0	0.56-0.84	16

**Bedrock Edition:**

Sounds								<a href="#">[hide]</a>
Sound	Closed captions [upcoming: BE 26.0]	Source	Description	Identifier	Translation key [upcoming: BE 26.0]	Volume	Pitch	
	?	Blocks	When a TNT block is lit	random.fuse	?	1.0	1.0	
	?	Blocks	When a TNT block explodes	random.explode	?	4.0	1.0	

## Data values

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### ID

*Java Edition:*

Name	Identifier	Form	Block tags	Translation key <a href="#">[hide]</a>
TNT	tnt	Block & Item	enderman_holdable	block.minecraft.tnt

Name	Identifier	Translation key <a href="#">[hide]</a>
Primed TNT	tnt	entity.minecraft.tnt

*Bedrock Edition:*

Name	Identifier	Alias ID	Numeric ID	Form	Item ID <sup>[i 1]</sup>	Translation key <a href="#">[hide]</a>
TNT	tnt	tnt / 0	46	Block & Giveable Item <sup>[i 2]</sup>	Identical <sup>[i 3]</sup>	tile.tnt.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	Identifier	Numeric ID	Family	Translation key <a href="#">[hide]</a>
Block of TNT	tnt	65	inanimate_tnt	entity.tnt.name

## Block states

*Java Edition:*

Name	Default value	Allowed values	Description	[hide]
unstable	false	false	Hitting the TNT block breaks it, dropping it as an item that can be picked up.	
		true	Hitting the TNT block causes it to ignite and then explode.	

### Bedrock Edition:

Name	Metadata Bits	Default value	Allowed values	Values for Metadata Bits	Description	[hide]
explode_bit	0x1	false	false	0	Hitting the TNT block breaks it, dropping it as an item that can be picked up.	
			true	1	Hitting the TNT block causes it to ignite and then explode.	

## Entity data

TNT has entity data associated with them that contain various properties of the entity.

### Java Edition:

*Main article: Entity format*

Dynamic block entity data

#### Tags common to all entities

**fuse**: Ticks until explosion. Defaults to 80.

**block\_state**: The block model to use. defaults to tnt if not specified.

**Name**: The resource location of the block.

**Properties**: Optional. The block states of the block.

**Name**: The block state name and its value.

**explosion\_power**: A value from 0 to 128. The power of the explosion. Defaults to 4.0. If set to the default value, this field is not saved to the entity's NBT.

**owner**: The UUID of the entity this TNT was lit by, stored as four ints. May not exist.

### Bedrock Edition:

See Bedrock Edition level format/Entity format.

## Videos

## History

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### Development

<a href="https://web.archive.org/web/0/http://notch.tumblr.com/post/110762705/my-list-on-tile-types-so-far">May 21, 2009 (<a href="https://web.archive.org/web/0/http://notch.tumblr.com/post/110762705/my-list-on-tile-types-so-far">https://web.archive.org/web/0/http://notch.tumblr.com/post/110762705/my-list-on-tile-types-so-far</a>)</a>	Notch shows interest in adding "explosives", which would blow up when a pulse from a wire was received.
<a href="https://web.archive.org/web/0/https://notch.tumblr.com/post/221308991/the-new-block-types-and-new-graphics-for-the-gold">October 24, 2009 (<a href="https://web.archive.org/web/0/https://notch.tumblr.com/post/221308991/the-new-block-types-and-new-graphics-for-the-gold">https://web.archive.org/web/0/https://notch.tumblr.com/post/221308991/the-new-block-types-and-new-graphics-for-the-gold</a>)</a>	TNT was teased in a blog post.

### *Java Edition*

<b>Java Edition Classic</b>			[hide]
<b>0.26 SURVIVAL TEST</b>	 <b>Added TNT.</b>		
	 <b>Players have to hit TNT to prime the block.</b>		
	<b>The player starts with 10 blocks of TNT in their hotbar.</b>		
	<b>TNT's fuse time was shorter than in later versions, which is 2 seconds instead of 4 seconds.</b>		
<b>0.28</b>	 <b>Changed the side texture of TNT.</b>		
	<b>TNT no longer works in survival.</b>		
<b>0.30 (Survival)</b>	<b>Hitting an already active TNT block now defuses it and allows the player to pick it up.</b>		
	<b>Explosions caused by TNT no longer produce smoke particles.</b>		
<b>Java Edition Indev</b>			[hide]
<b>0.31</b>	<b>20091223-0040</b>	<b>When broken, TNT replaces every block one level below it that is of the same block type as the block directly below it with wooden planks.</b>	
	<b>20091231-2255</b>	<b>Players can no longer cancel the detonation of TNT by hitting it after priming it. [verify]</b>	
	<b>20100124-2310</b>	<b>Explosions caused by TNT now produce smoke particles again.</b>	
	<b>20100125</b>	<b>TNT now deals more damage.</b>	
	<b>20100130</b>	<b>TNT's fuse time is now 4 seconds, raised from 2 seconds.</b>	
	<b>20100130</b>	<b>TNT now flashes when lit.</b>	
	<b>20100130</b>	<b>TNT is now craftable.</b>	
<b>Java Edition Beta</b>			[hide]
<b>1.6</b>	<b>Test Build 3</b>	<b>Mob traps can no longer be created by putting a pressure plate directly on top of the block of TNT.</b>	
		<b>TNT can no longer have torches placed on it. Any previously-placed torches remain until a block update is received.</b>	
<b>1.7</b>		<b>TNT can be primed only by redstone or any other mechanism that powers the TNT block, as well as by hitting it with flint and steel. If the player hits TNT with an empty hand or while holding any other item, the block is destroyed and dropped as an item.</b>	
<b>1.8</b>	<b>Pre-release</b>	<b>TNT explosions now emit shockwave particles.</b>	
<b>Java Edition</b>			[hide]
<b>1.0.0</b>	<b>RC1</b>	<b>TNT has been given a new explosion sound.</b>	
<b>1.2.5</b>		<b>Hitting TNT with flint and steel destroys TNT without priming it. Instead, TNT can be primed by using flint and steel on it.</b>	
<b>1.3.1</b>	<b>12w21a</b>	<b>TNT can be naturally found (with structure generation turned on) in desert pyramids as a trap in the treasure room. It's a 3x3 square of 9 TNT under a sandstone floor with a stone pressure plate on the center sandstone block.</b>	
	<b>12w26a</b>	<b>TNT no longer drops as an item when broken in Creative mode.</b>	

	<u>12w30a</u>	TNT no longer damages the player in <u>Peaceful</u> difficulty.
<u>1.4.2</u>	<u>12w34b</u>	TNT can now be ignited when hit with an <u>item</u> that has the <u>Fire Aspect</u> enchantment or the <u>Flame</u> enchantment.
<u>1.5</u>	<u>13w02a</u>	TNT is now used to craft <u>TNT minecart</u> .
	<u>13w04a</u>	TNT is now primed when released from a dispenser.
<u>1.8</u>	<u>14w05b</u>	Mobs now suffocate inside of TNT.
	<u>14w27b</u>	TNT's top texture is now rotated randomly, as part of the addition of arrays to <u>block models</u> .
	<u>14w31a</u>	The explosion physics have been changed, which greatly reduces the range of TNT cannons.
<u>1.8.2</u>	<u>pre1</u>	The explosion physics of TNT have been reverted to those before the <u>14w31a</u> snapshot.
		Explosion force of TNT is no longer directionally biased.
<u>1.9</u>	<u>15w47a</u>	The random rotation of TNT's top texture has been removed. <sup>[1]</sup>
<u>1.11</u>	<u>16w39a</u>	TNT now generates in <u>woodland mansions</u> .
<u>1.13</u>	<u>18w10a</u>	TNT now generates in <u>buried treasure chests</u> .
	<u>18w11a</u>	TNT can now be found in <u>shipwreck</u> chests.
<u>1.14</u>	<u>18w43a</u>	 The texture of TNT has been changed.
	<u>19w05a</u>	TNT has become a <u>renewable resource</u> due to <u>wandering traders</u> selling sand.
	<u>19w11a</u>	TNT explosions now have a 100% drop rate.
<u>1.15</u>	<u>19w39a</u>	TNT no longer flashes with a solid white color when primed. <sup>[2]</sup>
	<u>pre1</u>	The explosions from TNT have been optimized.
		Black and white smoke particles are removed. <sup>[3]</sup>
<u>1.16</u>	<u>20w11a</u>	TNT can now be ignited by any burning projectile.
<u>1.19</u>	<u>22w13a</u>	TNT no longer drops when breaking a <u>minecart with TNT</u> .
<u>1.19.4</u> Experiment Update 1.20	<u>23w07a</u>	TNT now drops when brushing <u>suspicious sand</u> in <u>desert pyramids</u> .
<u>1.20</u>	<u>23w12a</u>	The probability for the TNT to generate in the suspicious sand in desert pyramid has been changed from 1/7 to 1/8.
<u>1.20.3</u>	<u>23w42a</u>	The Fuse field has been renamed to fuse.
<u>1.21</u>	<u>pre1</u>	Primed TNT can now teleport through a <u>nether portal</u> . <sup>[4]</sup>
	<u>pre4</u>	A primed TNT that has teleported through a nether portal can no longer destroy <u>nether portal blocks</u> .
<u>1.21.2</u>	<u>24w33a</u>	TNT can no longer destroy item frames, paintings and armor stands when in water. <sup>[5]</sup>
		Added optional field <code>explosion_power</code> .

<u>1.21.5</u>	<u>25w09a</u>	The default fuse value for TNT summoned using commands is now 80 instead of 0.
	<u>25w10a</u>	Added the <code>tntExplodes</code> game rule.
<u>1.21.6</u>	<u>25w20a</u>	TNT can once again destroy items and armor stands when in water.
<u>1.21.9</u>	<u>25w33a</u>	Black and white smoke particles are once again shown when TNT explodes. <sup>[6]</sup>

## ***Bedrock Edition***

<b>Pocket Edition Alpha</b>			[hide]
<b>Pre-release</b>		 Added TNT.	
TNT currently cannot be obtained except via a hex editor. When edited in, the primed TNT simply emits smoke particles, then disappears. [verify]			
<b>v0.2.0</b>			Edited-in TNT can now be successfully primed and detonated.
<b>v0.4.0</b>			TNT is now able to be obtained without a hex editor in both <u>Survival</u> and <u>Creative</u> .
<b>v0.8.0</b>			TNT can now be ignited by <u>Fire</u> and <u>Lava</u> . (Previously would just burn away)
<b>v0.9.0</b>	<b>build 1</b>	The performance of TNT has been improved.	
<b>v0.12.1</b>	<b>build 1</b>	TNT can now be ignited when hit with an item that has the Flame enchantment.	
	<b>build 10</b>	The sound of TNT has been changed to that of <u>Java Edition</u> .	
<b>v0.13.0</b>	<b>build 1</b>	TNT can now be naturally found (with structure generation turned on) in <u>desert pyramids</u> as a trap in the treasure room. It is a 3×3 square of 9 TNT under a sandstone floor with a stone pressure plate on the center sandstone block.	
<b>v0.14.0</b>	<b>build 1</b>	TNT now can be used to craft <u>minecart</u> with TNT.	
		Primed TNT can now travel through <u>nether portals</u> .	
<b>v0.15.0</b>	<b>build 1</b>	TNT can now be ignited when hit with an item that has the <u>Fire Aspect</u> enchantment.	
<b>v0.16.0</b>	<b>build 1</b>	An explosion in <u>creative</u> now gives the player materials as it does in <u>survival</u> .	
<b>Pocket Edition</b>			[hide]
<b>1.0.5</b>	<b>alpha 1.0.5.0</b>	An explosion in <u>creative</u> no longer gives the player materials as it does in <u>survival</u> .	
<b>1.0.7</b>		TNT no longer does damage to a player if the TNT is in <u>water</u> .	
<b>1.1.0</b>	<b>alpha 1.1.0.0</b>	TNT now generates in <u>woodland mansions</u> .	
<b>Bedrock Edition</b>			[hide]
<b>1.4.0</b>	<b>beta 1.2.14.2</b>	TNT can now be found inside <u>shipwreck supply chests</u> and <u>buried treasure chests</u> .	
	<b>beta 1.2.20.2</b>	TNT can now be used to craft <u>underwater TNT</u> .	
<b>1.10.0</b>	<b>beta 1.10.0.3</b>	 The texture of TNT has been changed.	
<b>1.16.0</b>	<b>beta 1.16.100.51</b>	TNT no longer activates when a <u>redstone torch</u> is placed directly on it. [7]	
<b>1.19.70</b>	<b>Preview 1.19.70.23</b>	TNT now drops when brushing <u>suspicious sand</u> in <u>desert pyramids</u> .	
<b>1.21.0</b>	<b>Preview 1.21.0.20</b>	TNT explosions now have a 100% drop rate. [8]	
<b>1.21.60</b>	<b>Preview 1.21.60.21</b>	TNT no longer flashes with a solid white color when primed. [9]	

## Legacy Console Edition

Legacy Console Edition							[hide]
Xbox 360	Xbox One	PS3	PS4	PS Vita	Wii U	Switch	
TU1							 Added TNT.
TU3		CU1	1.00	1.00	1.00	Patch 1	TNT can no longer be directly primed by the player, but only by redstone or any other mechanism that powers the TNT block, as well as by using flint and steel. Hitting the block destroys it simply and safely so it can be picked up.
TU5						1.0.1	The explosion sound of TNT has been changed.
TU14			1.04				TNT now makes a sound before exploding.
							TNT does variable damage depending on difficulty setting.
TU19	CU7	1.12	1.12	1.12			TNT is now used to craft <u>TNT minecart</u> .
							TNT is now primed when released from a dispenser.
TU54	CU44	1.52	1.52	1.52	Patch 24	1.0.4	TNT now generates in <u>woodland mansions</u> .
TU69		1.76	1.76	1.76	Patch 38		TNT can now be found inside <u>shipwreck supply chests</u> and <u>buried treasure chests</u> .
			1.90				 The texture of TNT has been changed.

## New Nintendo 3DS Edition

New Nintendo 3DS Edition		[hide]
0.1.0	 Added TNT.	

## Data history

### Java Edition

Java Edition Beta			[hide]
<u>1.7</u>	TNT can now be created (using map editors) with a data value of 1 to make it retain the old behavior of being primed when punched.		
Java Edition			[hide]
<u>1.8</u>	<u>14w06a</u>	TNT now uses the newly-implemented model json file <code>models/block/cube.json</code> ; previously the geometry was defined in the game code itself.	
<u>1.9</u>	<u>15w32c</u>	TNT's maximum fuse time has been increased from 127 ticks into 32767 ticks.	
<u>1.11</u>	<u>16w32a</u>	The entity ID has been changed from <code>PrimedTnt</code> to <code>tnt</code> .	
<u>1.13</u>	<u>17w47a</u>	The explode block states for the <code>tnt</code> ID have been removed. As a result, the old punch to prime behavior of TNT is no longer available.  Prior to <i>The Flattening</i> , this block's numeral ID was 46.	
<u>1.13.1</u>	<u>18w30a</u>	Added the unstable block states for TNT, acting like the explode block states did.	

## Bedrock Edition

Pocket Edition			[hide]
<u>1.1.0</u>	<u>alpha 1.1.0.0</u>	The entity ID has been changed from <code>primedtnt</code> to <code>tnt</code> .	
Bedrock Edition			[hide]
<u>1.21.30</u>	<u>Preview 1.21.30.23</u>	The different allow underwater bit block states for the <code>tnt</code> ID have been split up into their own IDs.	

## Issues

Issues relating to "TNT" are maintained on the [bug tracker](#). Issues should be reported and viewed there (<https://bugs.mojang.com/issues/?jqql=project%20in%28MC%2C%20MCPE%29%20AND%20resolution%20is%20EMPTY%20OR%20resolution%20in%20%281%2C%202%2C%206%29%29%20AND%20%28summary%20~%20%22TNT%22%29%20ORDER%20BY%20resolution%20DESC>).

## Trivia

- "TNT" stands for [Trinitrotoluene](#) (<https://en.wikipedia.org/wiki/TNT>). The preferred IUPAC name ([https://en.wikipedia.org/wiki/preferred\\_IUPAC\\_name](https://en.wikipedia.org/wiki/preferred_IUPAC_name)), however, is 2-methyl-1,3,5-trinitrobenzene. The chemical formula is C<sub>7</sub>H<sub>5</sub>N<sub>3</sub>O<sub>6</sub>, and unlike in *Minecraft*, has nothing to do with gunpowder.
- The use of sand in the crafting recipe references [dynamite](#) (<https://en.wikipedia.org/wiki/dynamite>), a different high explosive from TNT, consisting of [nitroglycerin](#) (<https://en.wikipedia.org/wiki/nitroglycerin>) mixed with [diatomaceous earth](#) ([https://en.wikipedia.org/wiki/diatomaceous\\_earth](https://en.wikipedia.org/wiki/diatomaceous_earth)). The block's appearance as a bundle of red sticks is also typical of dynamite.
- It takes 19.75 blocks to fall for it to reduce the timer for one second.
- Although primed TNT normally gets caught in [cobwebs](#), TNT propelled fast enough flies through them without slowing down at all.

- It is slightly smaller than a full block when activated, as with all entity versions of blocks (see [shulker](#)).
- In [Pi Edition](#), TNT by default doesn't do anything, but when set to data value 1, it ignites when broken.
- The longest fuse time of TNT is 27 minutes and 18.35 seconds, or 32,767 ticks.
- The TNT fuse sound uses the same sound file as when a creeper is primed, but it is played at a higher pitch when the TNT is primed.
- As seen in the [Mobestiary](#), [Minecraft Dungeons](#), and several pieces of merchandise, creepers have TNT inside of them.

## Gallery

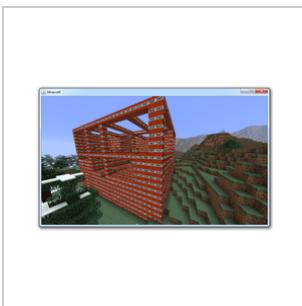
### Screenshots



Falling primed TNT, showing the effect of gravity.



TNT triggered by redstone signal.



A giant cube room of TNT.



Thousands of tnts.

### In other media



Magnus juggling TNT blocks, in promotion of the [Story Mode Skin Pack](#).



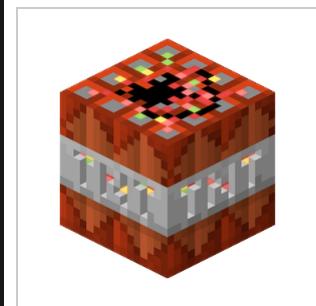
A hybrid between a creeper and TNT, used to represent add-ons.<sup>[10]</sup>



Kai and Zuri on top of a large pile of TNT, from [Minecraft x Marketplace Pass](#).



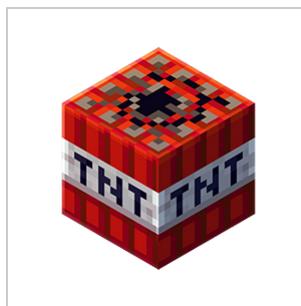
TNT as it appears in [Minecraft Dungeons](#).



Super TNT, an enhanced version of TNT featured in *Minecraft Story Mode*.



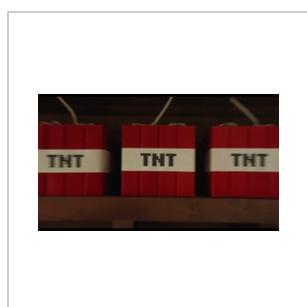
Formidi-Bomb, another enhanced version of TNT featured in *Minecraft Story Mode*.



TNT as it appeared in *Minecraft Earth*.



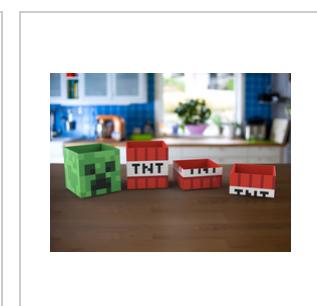
An officially licensed box in the shape of TNT.



TNT as seen in *A Minecraft Movie*.



Sam crafting TNT.



## See also

- [Creeper](#)
- [Tutorial:Traps § Explosive traps](#)
- [Tutorial:TNT cannons](#)

## References

1. [MC-12959](#) — TNT mesh rotated wrongly placed vs primed — resolved as "Fixed".
2. [MC-47941](#) — TNT/Creepers flash solid white when exploding — resolved as "Fixed".
3. [MC-165991](#) — TNT explosion no longer shows additional smoke particles since 1.15 Pre-

- release 1
4. [MC-8983](#) — Primed TNT cannot travel through nether portals — resolved as "Fixed".
  5. [MC-3697](#)
  6. [MC-165991](#) — TNT explosion no longer shows additional smoke particles since 1.15 Pre-release 1 — resolved as "Fixed".
  7. [MCPE-81258](#) — TNT activates when a redstone torch is placed on the side of the block — resolved as "Fixed".
  8. [MCPE-56036](#) — TNT Does Not Have 100% Drop Rate — resolved as "Fixed".
  9. [MCPE-51809](#) — TNT/Creepers flash solid white when exploding — resolved as "Fixed".
  10. <https://learn.microsoft.com/en-us/minecraft/creator/documents/gettingstarted?view=minecraft-bedrock-stable&tabs=Windows10>

## External links

- [Block of the Week: TNT](#) (<https://www.minecraft.net/en-us/article/block-week-tnt-0>) – Minecraft.net on August 11, 2017

## Navigation

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<b>Redstone components</b>			
<b>Power emission</b>	Block of Redstone	Buttons (  Wooden )	Stone
	Polished Blackstone)	Daylight Detector	
	Detector Rail	Jukebox	Lectern
	Lever		
	Lightning Rod	Observer	Pressure Plates
	Wooden	Stone	Polished Blackstone
	Light Weighted	Heavy Weighted)	
	Redstone Comparator	Redstone Torch	
	Sculk Sensor (  Calibrated )	Target	
	Trapped Chest	Tripwire Hook (  Tripwire )	
<b>Signal transmission</b>	Redstone Wire	Redstone Repeater	
	Conductive and non-conductive blocks		
	Allay	Boat with Chest (  Bamboo Raft )	
	Copper Golem	Crafter	Dispenser
	Dropper		
	Hopper	Minecart (  with Chest )	Minecart (  with Furnace )
	with Hopper)	Rail (  Activator )	Powered )
	Water (  Bubble Column )		
	Barrel	Bee Nest (  Hive )	Brewing Stand
	Cake	Cauldron	Chest (  Copper )
<b>Item and entity transportation</b>	Chiseled Bookshelf	Composter	
	Copper Golem Statue	Decorated Pot	
	End Portal Frame	Furnace (  Blast )	Smoker )
	Item Frame (  Glow )	Respawn Anchor	
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	Redstone Ore (  Deepslate )	Scaffolding	
	Sculk Catalyst	Sculk Shrieker	Wall
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<b>Observer-related</b>			

<u>Pistons/related</u>	Piston ( Sticky)  Honey Block  Slime Block Movable and immovable blocks
<u>Sculk sensor-related</u>	Block of Amethyst  Wool ( Carpet) Armor Stand  Bell  Big Dripleaf  Copper Bulb
<u>Mechanisms/misc.</u>	Creaking Heart  Doors ( Copper)  Iron Wooden)  Fence Gate  Head  Note Block Redstone Lamp  Shelf  TNT ( Minecart) Trapdoors ( Copper)  Iron  Wooden) Command Block ( Minecart)
<u>Creative or commands only</u>	Minecart with Monster Spawner  Structure Block Test Block

	<b>Blocks</b> [hide] <b>Structural</b> [show] <b>Ornamental</b> [show] <b>Natural</b> [show] <b>Utility</b> [hide]
<u>Interactable</u>	Anvil ( Chipped)  Damaged)  Barrel  Beacon Brewing Stand  Cartography Table  Chest ( Ender)  Copper Crafting Table  Enchanting Table  Furnace ( Blast)  Smoker Grindstone  Lectern  Loom  Shulker Box ( Dyed)  Sign ( Hanging)  Smithing Table  Stonecutter Banners ( Ominous)  Beehive  Beds  Bell  Bookshelf Cake ( with Candle)  Campfire ( Soul)  Cauldron Chiseled Bookshelf  Composter  Conduit Copper Golem Statue  Decorated Pot  End Gateway End Portal  End Portal Frame  Farmland  Fletching Table Flower Pot  Frosted Ice  Heads ( Skeleton)  Wither Skeleton Zombie  Creeper  Piglin  Dragon)  Heavy Core  Jukebox Ladder  Lodestone  Monster Spawner  Nether Portal Respawn Anchor  Scaffolding  Shelf  Sponge ( Wet) Suspicious Gravel  Suspicious Sand  TNT  Trial Spawner ( Ominous)  Vault ( Ominous) ▪ Buttons ( Wooden)  Stone  Polished Blackstone) Copper Bulb  Crafter  Daylight Detector  Dispenser Dropper  Doors ( Copper)  Iron  Wooden)  Honey Block Hopper  Lever  Lightning Rod  Note Block  Observer Piston ( Sticky)  Pressure Plates ( Wooden)  Stone Polished Blackstone  Heavy Weighted  Light Weighted)  Rail ( Activator  Detector  Powered)  Redstone Lamp Redstone Wire ( Comparator  Repeater  Torch)  Slime Block Target  Trapped Chest  Trapdoors ( Copper)  Iron Wooden)  Fence Gates  Tripwire Hook ( Tripwire) Allow  Border  Chalkboard  Compound Creator  Deny Element Constructor  Heat Block  Item Frame ( Glow) Lab Table  Material Reducer  Underwater TNT Underwater Torch
<u>BE &amp; edu only</u>	<b>Creative or commands only</b> [show] <b>Removed</b> [show]

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### Entities

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#### Player

 Alex  Ari  Efe  Kai  Makenna  Noor  Steve  Sunny  
 Zuri

Falling Blocks ( Anvil  Concrete Powder  Dragon Egg  Gravel)

 Pointed Dripstone  Sand  Red Sand  Scaffolding

 Suspicious Gravel  Suspicious Sand)  Primed TNT

**BE & edu only** Falling Blocks ( Deprecated Anvil  Snow)

 Primed Underwater TNT

#### Vehicles

 Bamboo Raft  Boat ( with Chest)  Minecart ( with Chest)

 with Command Block  with Hopper  with TNT)

**Java Edition only**  Minecart with Furnace ( with Monster Spawner)

 Fireball ( Small  Dragon)  Launched Firework Rocket

 Llama Spit  Shot Arrow ( Tipped)  Shulker Bullet

 Thrown Bottle o' Enchanting  Thrown Egg  Thrown Ender Pearl

 Thrown Eye of Ender  Thrown Snowball  Thrown Splash Potion

( Lingering Potion)  Thrown Trident  Wind Charge  Wither Skull

**Java Edition only**  Shot Spectral Arrow

**BE & edu only**  Thrown Ice Bomb

 End Crystal  Leash Knot  Painting

**Java Edition only**  Item Frame ( Glow)

 Area Effect Cloud  Armor Stand  Evoker Fangs

 Experience Orb  Fishing Bobber  Items  Lightning Bolt

 Ominous Item Spawner

**JE only**  Mannequin

**BE & edu only**  Balloon  Camera

**JE only**  Display (Block  Item  Text)  Interaction  Marker

**Editor only**  Location Pointer Idle  Location Pointer Selected  Map

Marker  Ruler (Idle)

### Unimplemented

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### Joke

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### Combat

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### Melee

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### Ranged

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### Armor

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### Food

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### General

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Mechanics	Damage  Knockback  Drops  Durability  Blocking Mob infighting  Geared mobs  Mob fleeing  Use cooldown Shield  Ender Pearl  Potion ( Splash  Lingering) Totem of Undying  TNT ( Minecart with TNT)  End Crystal
Items	Respawn Anchor  Bed  Bucket ( Lava Bucket  Water Bucket Powder Snow Bucket  Milk Bucket  Cobweb  Flint and Steel Fire Charge  Fishing Rod  Bottle o' Enchanting
Enchantments	Curse of Vanishing  Mending  Unbreaking Instant Health  Instant Damage  Regeneration  Resistance
Effects	Poison  Wither  Health Boost  Absorption Fatal Poison [BE only]

## Tutorials

[\[show\]](#)

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