



In the case of red science packs, we will need an assembler making iron gears, and an assembler making the actual packs. Burner Inserters themselves require coal to run though, which makes this a little counter intuitive to have to fuel them instead of the machines you are trying to fuel anyway. Production upgrade! What's better than iron plates? Well let's automate that too! Conveyor belts and inserters are the way of the future! The output slots on the drill can also output onto conveyor belts to be transported to your other machines. If you need to defend yourself, press space to shoot the enemy closest to your mouse cursor. Here is a small example of what you could do, but let your imagination and your calculating logic figure out other, maybe even better ways of doing it! You want ore to be split more or less evenly on each side of the belts. Now that we can take our coal to other places with no effort, we just need a way to input the coal into those machines. When you first place one, you are going to get a popup asking you want you want to research. Middle click (or Command-Right-Click) the item in the Quickbar to remove it. There are many designs that you can click it place an item in it. If you have the ingredients required by a recipe, you can click it multiple times to craft as many as you want. A nice way of doing this is to have a conveyor belt with 1 side containing the copper plates and the other side taking the gears from another assembler like below. Boilers allow water to flow through, you can place multiple boilers next to each other and all will get water. If you want to split a stack in half, right click the stack. We need copper plates and iron gears. Feeding with fuel Now that you've placed the drill and furnace, they need Fuel. These should be found within a reasonable proximity to each other; the farther apart they are the harder it will be to route them for combined use. Once you have some fuel in your inventory, left click on the furnace or drill to open the interface. If they are going to connect, the machines that use power will be shown with a blue outline around their edges. You can see this process happening on the bottom left of the screen, where your Crafting Queue is. More information about world generation can be found in the World generator article. It's also advisable to have a source of Water in your starting area, as it is required for Steam Engines. This inserter is able to reach twice as far as a normal inserter! It is very useful for bringing or placing items to or from conveyor belts that are one extra tile away. Also note that the game can be completed with enemies disabled completely (set size to none) however dealing with enemies is usually a major part of the game. Make sure that there is a line of power poles that actually connect to your power plant. Once again, this is only one possible method of doing things and you are in no way obligated to follow it. When you open a container, you will be able to see your inventory also. As per usual, I leave this area with plenty of room to expand later on when demands become higher. You can also transfer by simply holding the "stack transfer" button ("SHIFT" default) and clicking it. Before we can get to that though, we're going to have increase our production of ores. If peaceful mode is enabled, enemies will not attack the player unless the player attacks first. These are really simple to set up, they just require thirty-some iron plates per steam engine and 5 stone. For the copper to continue on. These are much better than those scummy Burner ones. The logistic research gives you some important things: the splitter, the underground belt and the fast inserter. We're going to need a single Offshore Pump, a boiler and two Steam Engines. Placing and removing structures that you can place on the ground. You can have them to output your raw resources onto belts and get them to a place where you can mass process the ores into plates. It should look something like this: Remember you can press "ALT" to activate the detailed view. Resources and enemy bases are controlled by 3 values: frequency, size, and richness. You might also want to activate the detailed view. Besources and enemy bases are controlled by 3 values: frequency, size, and richness. You might also want to activate the detailed view. Besources and enemy bases are controlled by 3 values: frequency, size, and richness. You might also want to activate the detailed view. Besources and enemy bases are controlled by 3 values: frequency, size, and richness. You might also want to activate the detailed view. Besources and enemy bases are controlled by 3 values: frequency, size, and richness. You might also want to activate the detailed view. 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Besources are controlled by 3 values: frequency, size, and richness. You begin you can be solve a the detailed view. Besources are controlled by 3 values: frequency, size, and richness. You be solve a the detailed view. Besources are controlled by 3 values: frequency, size, and richne a Burner mining drill. But hey, this game is all about experimentation and for you to be able to find ways to do your own things! So get to it, and show off your own unique designs! Here's my personal favorite setup. Basic controls and UI Please refer to Keyboard bindings to learn more about key bindings and how to configure them. Notice how when it joins the line that the gears are on, they only join the bottom side of the belt. Don't forget that you can collect resources from machines without opening their inventories, with CTRL-LMB. Starting your game To begin from the Main Menu, you need to select "Play", then "New Game". In the early game, the most used resource is iron, so you'll probably need twice as many miners on iron than copper, if not more. The four big buttons at the top of the crafting recipes are the crafting reci your ammunition, which can be seen in the lower-right corner of the screen. You can use this to gather wood, stone, coal, copper ore, iron ore, and fish only. They do pretty much what their names imply. Set up more drills with furnaces for the iron, setup some for copper and maybe lay more drills on the coal to cover for the extra coal production. In the first few stages of the game, you can use Burner Inserters as a cheap way to move items from anything. To see this in your game you need to go into the game's menu, then press Options, Graphics and turn on the option "Show inserter arrows when detailed info is on." Okay, so now we know how to automatically mine things and then how to automatically move things from one place to another, and then to place said items into machine or out of machines. But expect copper to become more and more important the more you mess with electricity and electronics! More automation Great! So now you have four or so furnaces making iron, a couple making copper, some stone production and a good amount of coal production. Using this power is as simple as creating a machine that runs on electricity and placing a power pole close enough to it that the blue square touches the machine, just like you have to do at the power plant with the engines. View the crafting progress in the lower-left hand corner of the screen. Left click to place the structure. Once this is all setup up, you will probably want to make it go faster. However, if you want detailed info on your powerpole. The same goes for for Uranium ore. The area in blue is a quick way to allow copper to continue down the main line, while also splitting some off for our red science assemblers. However, it's okay if your starting area doesn't have oil, as you won't need it until later in the game. Interacting with structures If a structure is interact-able, left click it to open its UI. I would highly recommend that you research Logistics as your next research, and the game. and in fact manually craft the science required for this. The processing area needs some machines that we currently don't have due to limitations in our research to complete, let's continue building an ore processing center. Most commonly you will use this to pick which recipe a machine should use, or to put inventory items into a container. For Coal, you can have two drills facing each other: they'll run on the coal they get fed by their partner and you can collect the surplus. Inventory key (default "E") to open and close your inventory. This gives us our inserters and the Assembling machine 1, which is going to be very useful in the near future. You can now press the same inventory key again (default "E") to close your inventory. The important parts about this is that you need the red, long handed inserters to be able to reach the coal in the middle to fuel your furnaces. The first tab in the world generation screen allows the player to choose a preset for the world generation. But for that we need some extra utilities which we don't have and need to get through research. You can also queue up more crafting orders, as long as you have the necessary materials on you, and they'll get carried out one after the other. When your inventory is open, you can select a place-able structure from your inventory by clicking it. Craft one or two of them and connect them to power. All required items are crafted for you. The little yellow arrow shows where the mined iron ore will come out. But you know what really sucks? From the main menu, select "Play", then "Start Campaign", then "First Steps". Here is a small example. Water is fed into the boiler through the connection on the short side, as shown in the picture. These are easy to set up and work essentially the same as the iron setup. Now that you can afford some extra drill and furnaces, you should automate the acquisition of both coal and stone. Movement Move your character with the movement keys ("W", "A", "S", "D" by default). You need seperate belts for your incoming raw materials to be able to be processed, and then another belt outside of them to handle the output after they have been smelted. If you want to transfer ALL items of one type, hold down the "inventory transfer" key ("CTRL" default) and click the item. This is once again easily expandable all over an iron deposit. The rest is simple: the gears and copper get pulled into the assemblers, they make the science and then it gets pulled out again on the other side. Next up we want to get some electricity so that we can have inserters that run off that instead of fuel. To place your fuel into the machine, simply left click it to pick it up and left click again to put it into the fuel slot. If the item appears red, you cannot place it there. From there, you can either use pipes to transport the water to boilers, or you can run boilers straight from the pump. You can deactivate it by pressing ALT again. This makes it easier to see what's happening. Press the "alt-mode" key (default "ALT") to toggle "detailed view", which shows extra information about structures. If you have your plate belts separate, and you want them running side by side there can be issues with trying to grab one or the other resources from the far belt. If you want to transfer ALL items of ANY type, hold down the "inventory transfer" key ("CTRL" default) and click an empty slot. If it is green, it can be placed. The Resource Settings tab allows changing how frequently and strongly resources and enemies spawn. Frequency determines how large these veins or bases are Richness determines how many resources ore tiles will produce before running dry, and the density of enemy bases If you would like an easier time to begin with, consider increasing the frequency, size, and richness of the resources while decreasing the same for enemy bases. This way we won't have to worry about research any longer. You can move objects from the ground, chests, machines and put them wherever you want. We really want to be able to set the factory to make things and let it go. Move your mouse around to see where you can place the structure. You'll notice that the cost for this is 10 Science Pack 1's, or "red potions" or "flasks" as some people like to call them. The offshore pump goes in the water and needs no power to run. These flasks can then be transported to some labs to automatically do your research for you, for example like this: See also Note that it may be recommended to increase the size and frequency of crude oil for beginner-level players, as oil can be very difficult to find depending on the world generation seed compared to that of other resources, combined with the fact that oil is a necessity for making progress as well the fact that pumping oil will gradually decrease it's yield, requiring the need travel further to find even more oil. These materials can then go straight into your base to be made into a myriad of other things. For new players, the Default preset or the Rich Resources preset are suggested. Now that power is explained, we need to increase our resource production. Electrical power Electricity. A pump produces enough water for 20 boilers, so the most often used setup contains 1 offshore pump, 20 boilers and 40 steam engines. Your mouse icon will still have the structure. A boiler produces exactly as much steam as two steam engines can consume in the same time, so the usual method is to have a line of boilers each connected to two steam engines. We want a line of copper, iron and coal to be available for this area. The Assembler answers your prayers! If you place an assembler down and open its interface, it asks you what you would like it to craft. Similarly, steam engines allow steam to run through, so you can have as many engine as you want connected in a row. If you haven't yet played the tutorial and campaign levels yet, you should play these first however. Below is another sample of how you could set up your area. Unlike other games, you do not need to create the pre-requisite items before you select the item you want to make. By having a splitter, you can move the far belt from your production in close while also allowing it to continue down the line for later use. Map Press the map key (default "M") to open and close the map. Later we will also need Crude oil. There are efficient ways of making them that you might see on the forum, but if you want to learn about what they are and how th work, you can either experiment yourself or search the wiki/forum for some better designs. World generator You can change these options to make sure that you have the four solid resources Close to your spawn location; Coal, Copper ore, Iron ore, and Stone. Having to run the coal around to all your other machines, right? We haven't even touched on that yet! Let's start by cranking up our resource production. This means you only have to harvest a limited number of resources by hand. The boilers are supplied with coal via inserters that take coal from a transport belt. You should see that your cursor has been replaced by the structure's icon. So what do science packs require? The little extra belt that I added to the left stops the belt from becoming a turn, and therefore makes the items only join the side I want them to. Despite being in the electric era, our furnaces still need coal until a little further down the line. So what we need to do is to make some science labs The steam output of the boiler then connects to the middle of the short side of the steam engine. Now that we have electricity, we can use Electric Mining Drills. This is where things start to get interesting. The splitter and underground belts are some of the most important items you'll get at this stage. After you place a structure, you can pick it up and put it back in your inventory by holding the right mouse button over it. Placing mines and furnaces Gathering and crafting manually is a pain, and the purpose of Factorio is to create machines that will do your work for you. You can also CTRL-Right Click to directly transfer half of the stack. Here is a small example of inserters working. A preset is just a quick way to change the settings in the other two tabs. Make sure you connect it in the right place or it won't work. Yes, you could use a long inserter, but in some cases you don't want this (e.g. you need a fast inserter to get resources can be gathered manually by holding the right mouse button over them. If you want to pick up only half of a stack of items, right click the stack in your inventory. They don't cost too many resources, but take a little while to make. Almost everything in Factorio is made from these seven basic resources, and you will need all of them except for uranium if you intend to finish the game. These are simply another crafted item, which you should craft 10 of now and place them in your labs to begin researching. This will lead you to a menu allowing the customization of your world. If the boiler is fuelled, it will output steam in the middle of one of the long sides. The inventory UI is split into the player's inventory, on the left, and the crafting recipes, on the right. This may need to be done several times until a passable world is created. Now, to be able to progress into later parts of the game with better research we are going to want automate the process of making science packs and putting them into the labs. You can see where you can connect boilers and steam engines if you turn on the detailed view (press the Alt key). To collect them, you'll need to cut trees or mine coal; this can be accomplished by holding right click over trees or coal deposits, respectively. Quickbar and Shortcut bar At the bottom-center of your screen, you will see the Quickbar on the left, and the Shortcut bar on the right. This helps with the amount of resources that can be carried to your base of operations on a single belt. We really want automation right now. Hover your mouse over resources on the map to see what they are. Finally, we have a steady and upgradeable supply of copper and iron plates, and we can get into further automation with the assembling machines so we can automate creation of things like Science Packs, Ammunition and every other item that the player themselves can craft, but without you involved at all! Automating the rotate key (default "R") before you place it, or after placing it by hovering over it with the mouse and pressing the rotate key (default "R"). The area in red is a good way to get around this. Place some down so that their coverage area (the blue square) overlaps each steam engine in at least one square. Factorio: Observations, Tips, Tricks, & Efficiency By KatherineOfSky Guide to nearly everything in game -resources, logistics, transport, combat, assembly setup guides, tips & tricks, the logic system, and more! If you're still lost after playing through the tutorial levels, this guide is here to help. Notice that the flat line is where the inserters will pick up from, and the arrow is where the inserters will pick up from the tutorial levels, this guide is here to help. Notice that the flat line is where the inserters will pick up from the tutorial levels, this guide is here to help. resources, or they are too scarce or too far apart, simply hit the Escape key and choose "Restart." This will re-generate the game world and you will spawn in a new starting location. Most importantly, we want the long handed inserter. Click an item in your inventory, then click an empty slot in the container, to transfer. This is where things start becoming a little tricky and there are few things you want to do at once. More iron plates! You'll need to craft some extra drills. If the steam engine is producing power but nothing is using it, it'll show a yellow flashing icon: right now it's showing because we don't have electric machines yet! Your power setup can look however you want it to look. And for stone you can have the drill output directly into a chest. Combat This game contains enemies, though they probably won't attack you until you are more prepared. This conveyor belt can then take all of the ore to some sort of processing area. The first list shows the components needed to make the drill; the second one at the very bottom of the tooltip window shows the raw resources needed to craft it. Once you select one, if you put the ingredients in that it requires it will craft the item and you can pull out the finished product. If you hover over drill in the crafting menu, you'll see two lists of materials. Changes to world generation can greatly affect the difficulty of the game. So far we have only dealt with raw resources, how do we make craftable things? The example above is easily expanded into this efficient design. You want the Furnace to be in front of that arrow, so that the drill automatically inserts the ore into the furnace. This is where Inserters step in. First of all, you should place your drill on the edge of an iron deposit, facing towards the furnace. If this is your first time, you won't need to tinker with these. They work exactly the same except they are twice as fast and they don't rely on fuel, as you could guess by the names. Now this picture uses a few neat little tricks that I will explain in detail. You can power them with either Wood or Coal. Now both of your machines should be running and automatically making you some iron plates! You can also CTRL-Right Click to directly insert half of the stack You can use an identical setup for copper ore to get copper plates. The "First Steps" campaign is a basic tutorial, the "New Hope" further teaches the basics of the game. Now you need to use power poles to carry power

to your machines.

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