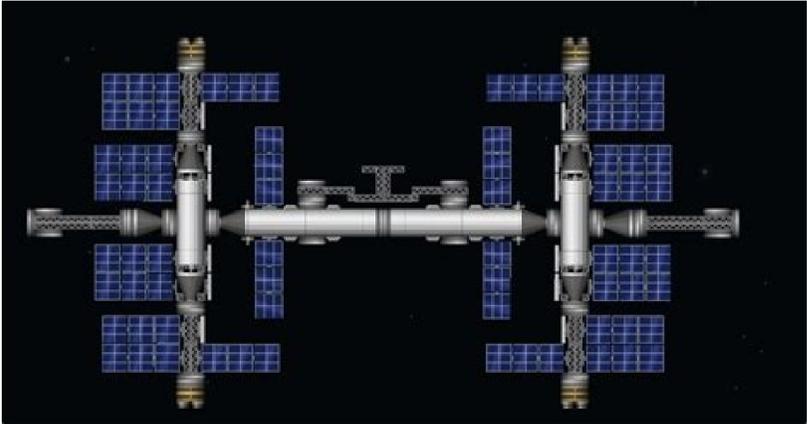
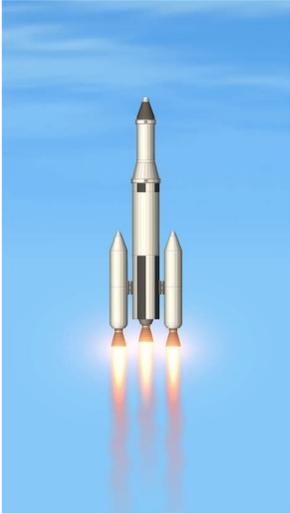
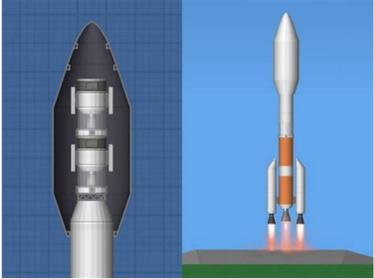
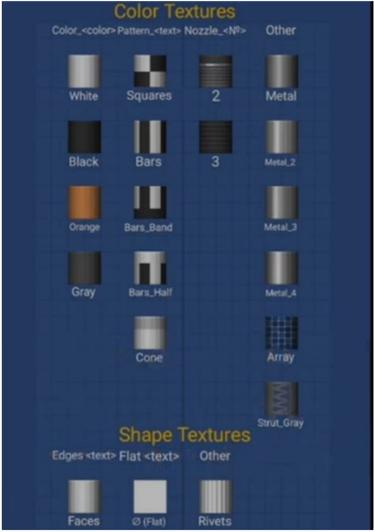


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View source Below are ways in to install Spaceflight Simulator on different platforms. The game is available on the Android Play Store and iOS App Store, and in Steam. Android Spaceflight Simulator on Google Play Store. Open the page at the Play Store link on your device, or a PC to remote-download it to an Android device. For downloading directly from the Android device: Click on Install. Click on Open. For downloading from a PC: Click on install. Choose the destination Android device (connected to the PC). Enter your Google Account password to confirm if needed. Download using an Android emulator (Like BlueStacks or LDPlayer) After following either sequence, exit to the Android device's home screen to see a loading bar as the game downloads and installs. iOS Visit the App Store through the App Store Link. Install the game. Enter your Apple ID's password to confirm the download if needed. macOS and Linux macOS and Linux both have ports of the game that are available here. Choose between the macOS or Linux port. The Linux port is universal, and works on every distribution. Extract the downloaded .zip compressed archive. Run the game executable file in the extracted folder. In Linux, you will find an x86 and x86\_64 file. Open up the one matching your computer's architecture ( 64 is the 64-bit version). Your game data can be transferred between versions using the SFSxxx\_Data folder. Windows (PC) Steam version is out: 12 dollars (depends on region) The version for Android can be played on a PC with the help of an Android emulator, but this is not an official way to run the game. Problems and glitches may occur, but you can run the most recent version on the Play Store at all times. Steam version out so SFS isn't supporting 32-Bit OSes now, unless you have 1.35 with ModLoader and TextureLoader, so you can make mods using Unity by adding parts and staging from 1.5 An easy instruction: Download link: Forum Download your version of SFS (32-/64-bit) Extract the .zip-file anywhere. Launch the file "SFS1.35.exe" in the SFS-1.35-directory. Go to build mode "Build New Rocket!". Then press "r" if you want to have the full version. Enjoy!!! : ) Alternatives Kerbal Space Program SimpleRockets2 Note: If you uninstall the game, all progress will be lost. If you bought any expansions, you can restore the purchases, but not between iOS and Android. Partially reusable launch system and spaceplane This article is about a spacecraft system used by NASA. For space shuttles in general, see spacecraft and spaceplane. For the spaceplane component of the Space Shuttle, see Space Shuttle orbiter. Space ShuttleDiscovery lifts off at the start of STS-120.FunctionCrewed orbital launch and reentryManufacturerUnited Space AllianceThiokol/Alliant Techsystems (SRBs)Lockheed Martin/Martin Marietta (ET)Boeing/Rockwell (orbiter)Country of originUnited Statesproject costUS\$211 billion (2012)Cost per launchUS\$450 million (2011)11SizeHeight56.1 m (184 ft)Diameter8.7 m (29 ft)Mass2,030,000 kg (4,480,000 lb)Stages1.5[2]:126,140Capacity Payload to low Earth orbit (LEO)(204 km (127 mi))Mass27,500 kg (60,600 lb)Payload to International Space Station (ISS)(407 km (253 mi))Mass16,050 kg (35,380 lb)Payload to geostationary transfer orbit (GTO)Mass10,890 kg (24,010 lb) with Inertial Upper Stage[3]Payload to geostationary orbit (GEO)Mass2,270 kg (5,000 lb) with Inertial Upper Stage [3]Payload to Earth, returnedMass14,400 kg (31,700 lb)[4] Launch historyStatusRetiredLaunch sitesKennedy Space Center, LC-39Vandenberg Air Force Base (unused), SLC-6Total launches135Success(es)133[a]Failure(s)2Challenger (launch failure, 7 fatalities)Columbia (re-entry failure, 7 fatalities)First flight12 April 1981Last flight21 July 2011 Boosters - Solid Rocket BoostersNo. boosters2Powered by2 solid-fuel rocket motorsMaximum thrust13,000 kN (3,000,000 lbf) each, sea level (2,650,000 lbf)Specific impulse242 s (2.37 km/s)[5]Burn time124 secondsPropellantSolid (ammonium perchlorate composite propellant)First stage - Orbiter + external tankPowered by3 RS-25 engines located on OrbiterMaximum thrust5,250 kN (1,180,000 lbf) total, sea level liftoff[6]Specific impulse455 s (4.46 km/s)Burn time480 secondsPropellantLH2 / LOX People or cargo transportedTracking and data relay satellitesSpacelabHubble Space TelescopeGalileoMagellanUlyssesCompton Gamma Ray ObservatoryMir Docking ModuleChandra X-ray ObservatoryISS components[edit on Wikidata] The Space Shuttle is a retired, partially reusable low Earth orbital spacecraft system operated from 1981 to 2011 by the U.S. National Aeronautics and Space Administration (NASA) as part of the Space Shuttle program. Its official program name was Space Transportation System (STS), taken from a 1969 plan for a system of reusable spacecraft where it was the only item funded for development.[7] The first (STS-1) of four orbital test flights occurred in 1981, leading to operational flights (STS-5) beginning in 1982. Five complete Space Shuttle orbiter vehicles were built and flown on a total of 135 missions from 1981 to 2011, launched from the Kennedy Space Center (KSC) in Florida. Operational missions launched numerous satellites, interplanetary probes, and the Hubble Space Telescope (HST), conducted science experiments in orbit, participated in the Shuttle-Mir program with Russia, and participated in construction and servicing of the International Space Station (ISS). The Space Shuttle fleet's total mission time was 1,323 days.[8] Space Shuttle components include the Orbiter Vehicle (OV) with three clustered Rocketdyne RS-25 main engines, a pair of recoverable solid rocket boosters (SRBs), and the expendable external tank (ET) containing liquid hydrogen and liquid oxygen. The Space Shuttle was launched vertically, like a conventional rocket, with the two SRBs operating in parallel with the orbiter's three main engines, which were fueled from the ET. The SRBs were jettisoned before the vehicle reached orbit, while the main engines continued to operate, and the ET was jettisoned after main engine cutoff and just before orbit insertion, which used the orbiter's two Orbital Maneuvering System (OMS) engines. At the conclusion of the mission, the orbiter fired its OMS to deorbit and reenter the atmosphere. The orbiter was protected during reentry by its thermal protection system tiles, and it glided as a spaceplane to a runway landing, usually to the Shuttle Landing Facility at KSC, Florida, or to Rogers Dry Lake in Edwards Air Force Base, California. If the landing occurred at Edwards, the orbiter was flown back to the KSC atop the Shuttle Carrier Aircraft (SCA), a specially modified Boeing 747. The first orbiter, Enterprise, was built in 1976 and used in Approach and Landing Tests (ALT), but had no orbital capability. Four fully operational orbiters were initially built: Columbia, Challenger, Discovery, and Atlantis. Of these, two were lost in mission accidents: Challenger in 1986 and Columbia in 2003, with a total of 14 astronauts killed. A fifth operational (and sixth in total) orbiter, Endeavour, was built in 1991 to replace Challenger. The three surviving operational vehicles were retired from service following Atlantis's final flight on July 21, 2011. The U.S. relied on the Russian Soyuz spacecraft to transport astronauts to the ISS from the last Shuttle flight until the launch of the Crew Dragon Demo-2 mission in May 2020.[9] Design and development Historical background During the 1950s, the United States Air Force proposed using a reusable piloted glider to perform military operations such as reconnaissance, satellite attack, and air-to-ground weapons employment. In the late 1950s, the Air Force began developing the partially reusable X-20 Dyna-Soar. The Air Force collaborated with NASA on the Dyna-Soar and began training six pilots in June 1961. The rising costs of development and the prioritization of Project Gemini led to the cancellation of the Dyna-Soar program in December 1963. In addition to the Dyna-Soar, the Air Force had conducted a study in 1957 to test the feasibility of reusable boosters. This became the basis for the aerospaceplane, a fully reusable spacecraft that was never developed beyond the initial design phase in 1962-1963.[10]:162-163 Beginning in the early 1950s, NASA and the Air Force collaborated on developing lifting bodies to test aircraft that primarily generated lift from their fuselages instead of wings, and tested the NASA M2-F1, Northrop M2-F2, Northrop M2-F3, Northrop HL-10, Martin Marietta X-24A, and the Martin Marietta X-24B. The program tested aerodynamic characteristics that would later be incorporated in design of the Space Shuttle, including unpowered landing from a high altitude and speed.[11]:142[12]:16-18 Design process Main article: NASA Shuttle design process On September 24, 1966, NASA and the Air Force released a joint study concluding that a new vehicle was required to satisfy their respective future demands and that a partially reusable system would be the most cost-effective solution.[10]:164 The head of the NASA Office of Manned Space Flight, George Mueller, announced the plan for a reusable shuttle on August 10, 1968. NASA issued a request for proposal (RFP) for designs of the Integrated Launch and Re-entry Vehicle (ILRV), which would later become the Space Shuttle. Rather than award a contract based upon initial proposals, NASA announced a phased approach for the Space Shuttle contracting and development; Phase A was a request for studies completed by competing aerospace companies, Phase B was a competition between two contractors for a specific contract, Phase C involved designing the details of the spacecraft components, and Phase D was the production of the spacecraft.[13][12]:19-22 In December 1968, NASA created the Space Shuttle Task Group to determine the optimal design for a reusable spacecraft, and issued study contracts to General Dynamics, Lockheed, McDonnell Douglas, and North American Rockwell. In July 1969, the Space Shuttle Task Group issued a report that determined the Shuttle would support short-duration crewed missions and space station, as well as the capabilities to launch, service, and retrieve satellites. The report also created three classes of a future reusable shuttle: Class I would have a reusable orbiter mounted on expendable boosters, Class II would use multiple expendable rocket engines and a single propellant tank (stage-and-a-half), and Class III would have both a reusable orbiter and a reusable booster. In September 1969, the Space Task Group, under the leadership of Vice President Spiro Agnew, issued a report calling for the development of a space shuttle to bring people and cargo to low Earth orbit (LEO), as well as a space tug for transfers between orbits and the Moon, and a reusable nuclear upper stage for deep space travel.[10]:163-166[17] After the release of the Space Shuttle Task Group report, many aerospace engineers favored the Class III, fully reusable design because of perceived savings in hardware costs. Max Faget, a NASA engineer who had worked to design the Mercury capsule, patented a design for a two-stage fully recoverable system with a straight-winged orbiter mounted on a larger straight-winged booster.[14][15] The Air Force Flight Dynamics Laboratory argued that a straight-wing design would not be able to withstand the high thermal and aerodynamic stresses during reentry, and would not provide the required cross-range capability. Additionally, the Air Force required a larger payload capacity than Faget's design allowed. In January 1971, NASA and Air Force leadership decided that a reusable delta-wing orbiter mounted on an expendable propellant tank would be the optimal design for the Space Shuttle.[10]:166 After they established the need for a reusable, heavy-lift spacecraft, NASA and the Air Force determined the design requirements of their respective services. The Air Force expected to use the Space Shuttle to launch large satellites, and required it to be capable of lifting 29,000 kg (65,000 lb) to an eastward LEO or 18,000 kg (40,000 lb) to a polar orbit. The satellite designs also required that the Space Shuttle have a 4.6 by 18 m (15 by 60 ft) payload bay. NASA evaluated the F-1 and J-2 engines from the Saturn rockets, and determined that they were insufficient for the requirements of the Space Shuttle; in July 1971, it issued a contract to Rocketdyne to begin development on the RS-25 engine.[10]:165-170 NASA reviewed 29 potential designs for the Space Shuttle and determined that a design with two side boosters should be used, and the boosters should be reusable to reduce costs.[10]:167 NASA and the Air Force elected to use solid-propellant boosters because of the lower costs and the ease of refurbishing them for reuse after they landed in the ocean. In January 1972, President Richard Nixon approved the Shuttle, and NASA decided on its final design in March. That August, NASA awarded the contract to build the orbiter to North American Rockwell, the solid-rocket booster contract to Morton Thiokol, and the external tank contract to Martin Marietta.[10]:170-173 Development Columbia undergoing installation of its ceramic tiles On June 4, 1974, Rockwell began construction on the first orbiter, OV-101, which would later be named Enterprise. Enterprise was designed as a test vehicle, and did not include engines or heat shielding. Construction was completed on September 17, 1976, and Enterprise was moved to the Edwards Air Force Base to begin testing.[10]:173[16] Rockwell constructed the Main Propulsion Test Article (MPTA)-098, which was a structural truss mounted to the ET with three RS-25 engines attached. It was tested at the National Space Technology Laboratory (NSTL) to ensure that the engines could safely run through the launch profile.[17]:II-163 Rockwell conducted mechanical and thermal stress tests on Structural Test Article (STA)-099 to determine the effects of aerodynamic and thermal stresses during launch and reentry.[17]:I-415 The beginning of the development of the RS-25 Space Shuttle Main Engine was delayed for nine months while Pratt & Whitney challenged the contract that had been issued to Rocketdyne. The first engine was completed in March 1975, after issues with developing the first throttleable, reusable engine. During engine testing, the RS-25 experienced



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