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Introduction

What is sound? A good synonym might be "vibration," because any sound is caused by something vibrating. Anything-from an instrument to a machine-that produces a musical sound is classified by the way it vibrates to generate sound.

Five categories of instruments

tors. The performer plucks, rubs, or strikes a string to make the string vibrate. Instruments that use stretched strings to generate sound are classified as chordophones, from two Greek words meaning "string sound." Instruments in this category include the harp, violin, viola, cello, double bass, guitar, banio, piano, and harpsichord.

The sound generator on a membranophone is a stretched membrane that vibrates when struck. Drums fall into this category. Many other percussion instruments are classified as idiophones: the idiophone itself vibrates when struck, rubbed, plucked, or shaken, In addition to cymbals, bells, rattles, and xylophones, some rather unusual instruments are in this category. such as the glass harmonica and the music box.

Aerophones, as the name implies. produce their sound through a column of vibrating air. This class of instruments includes the flute, recorder, clarinet, oboe, trumpet, trombone, and tuba, as well as many other "wind"

The final category of instruments is the electrophones, which use electricity to generate musical sounds.

Orchestral families

European instruments, or those that appear in our symphony orchestras, are also classified in another way. They divide into four orchestral families: the string family, the woodwind family, the brass family, and the percussion family. In this chanter we will examine the instruments and the characteristics of each family



"Galop" from Moscow, Cheremushky

Born on September 25, 1906, in St. Petersburg, Russia, Dmiri Shontarokri (dishaft-livere dalashrash/to/shc) experienced furthand for 1917 Bolshevik Revolution and the emissing years of furthand for 1917 Bolshevik Revolution and the emissing years of composers. Should be regivered to "Mile the proposers of the composers of the proposers of the proposers of the composers of the proposers of the p

Shostakovich achieved world recognition in 1925 with the premiere of his First Symphony, which was his graduation exercise at the St. Petersburg Conservatory, where

he had enrolled at age thirteen. Among his frifteen symphonies, the Seventh or Leningrad Symphony (1941) is probably the best known. This symphony was inspired by the Nazi siege of Leningrad and instantly was almost as popular in America as in the Soviet Union.

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America as in the Soviet Union. Shostakovich's dramatic musical style carried over to his interest in theatrical music, He wrote music for several place

and films. He also wrote several operetras (musical diamass with some polent dialogue, lighter than oper har to at as popular in style as the Broadway musical) including Morizon. Chermustally, Demand of Soviet operation, the people of Rossis has become for the properties of the properties of the people of Rossis has become learned to the properties of Rossis and the properties of lossing. This satirical comedy tells the story of a new apartment complex under construction in Morzon, the hopful treatmets, and the interesting ways they tried to get the best residences. The opening power "Colog" these the characters on a fast-people spin around

The String Family

The violin

The string family forms the backbone of the symphony orchestra, making up from one-half to two-thirds of the instruments in the orchestra. The wiolin is the smallest, and consequently the highest pitched, of the stringed instruments. Orchestral music almost always calls for two groups, or sections, of violins—first violins





and second violins. As a rule, the music composed during the seventeenth through the nineteenth centuries features the first violins as the dominant section in the orchestra. These violinists usually play the melody, and the first violinist, who sits at the center front of the orchestra to the left of the conductor, is called the concertmaster (or concertmistress) and often acts as the conductor's assistant. Before the orchestra plays, the concertmaster stands in front of the group and signals the members of each section to tune their instruments.

The second violin section may play the melody with the first violins, but perhaps an octave lower. Often the seconds may play a harmony part or a countermelody to accompany the melody. Usually the music played by the second violins is not as difficult as that played by the first violins, but it is certainly just as important.

Special techniques The violin is a versatile instrument and can be played in many ways, using various techniques. Although the violinist traditionally plays the strings of his instrument with a horsehair bow. he has some other options as well. The most common alternative technique, pizzicata, involves the player's plucking the strings with either the nails or pads of the fingers of his right hand to create a dry. staceate sound. Instead of pulling his bow back and forth against the strings, the violinist might bounce his bow along the string to play spiceato; this also creates a staccato effect. Occasionally, a composer indicates that the violinist should turn his bow over to allow the wood rather than the horsehair to bounce against the strings. The most familiar example of this technique is found in "Mars" from The Planets by Gustay Holst, a twentieth-century English composer.

Advanced string players employ vibrate to make the tone quality of their instrument warm, rich, and alive; they rapidly rock their left hand back and forth to vary each pitch just slightly. String players may use mutes to add a hushed, subdued quality to an expressive passage of music. The mute clamps the bridge to reduce the vibrations traveling down to the resonating body of the instrument.

String mechanics

How does a violin work? This diagram should help you to understand. Four strings, made of a variety of materials such as catgut, steel, or nylon, stretch tightly from the tailpiece, along the fingerboard, to the pegbox. The strings contact the instrument in two places between the tailpiece and the pegbox: the mut, just below the pegbox, and the bridge. When the violinist plucks a string or draws the bow along it, the string begins to vibrate. The bridge transfers these vibrations to the hollow body of the instrument, which works as a resonating chamber for the sound. Each

string wraps around one of the four pegs; turning a peg either stretches and tightens a string to make its pitch higher or loosens a string to make its pitch lower.

If you cannine the strings closely, you will notice that each one is a different thickness. The thickness the "third trings do not vibrate as rapidly as the thinner strings, so their pitch is lower. When the rapidly as the thinner strings, so their pitch is lower. When the strings of the st







