

## Synthesizer

**Music synthesizer**, also called **electronic sound synthesizer**. With the use of a digital computer it generates and modifies sounds. Synthesizers are used for the composition of electronic music and in live performance.



Synthesizers are capable of producing sounds far beyond the range and versatility of conventional musical instruments.

The first electronic sound synthesizer was developed by the American acoustical engineers **Harry Olson and Herbert Belar** in 1955 at the Radio Corporation of America (RCA) laboratories at Princeton, New Jersey.

## MANDOLIN

Mandolin, also spelled mandolin, is a stringed instrument and a member of the **lute family**. It is having eight strings in four courses, frequently tuned as a violin. They have either a bowl back or a flat back.



It evolved in the 18th century in Italy and. The instrument's modern form and proportions were strongly influenced by the maker Pasquale Vinaccia of Naples (1806–82).