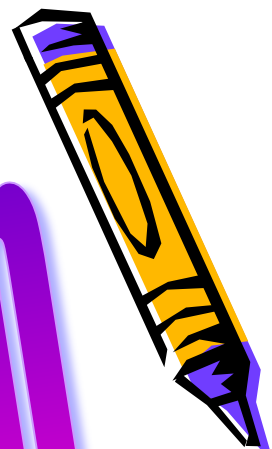


# The radio invention



# What is radio?

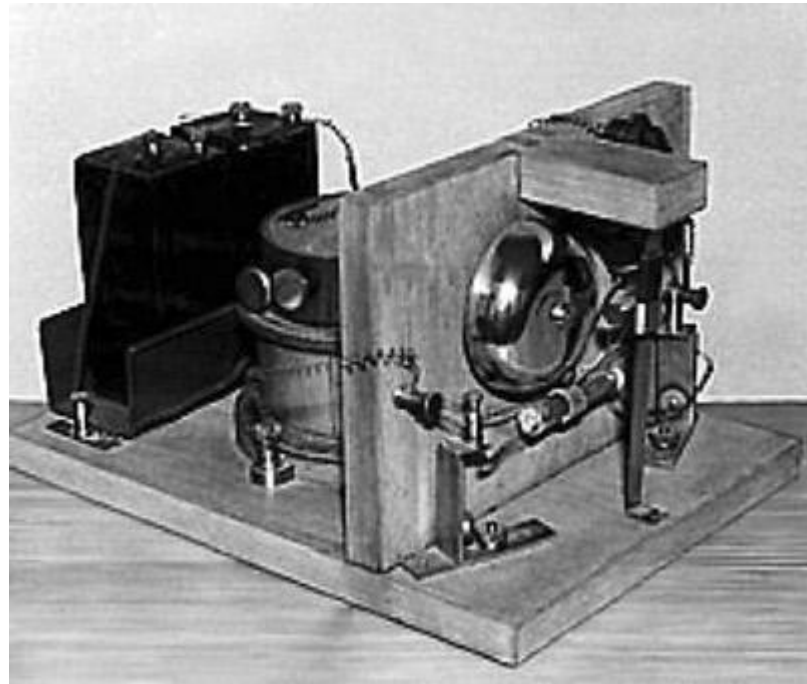
Radio is the transmission of signals by modulation of electromagnetic waves with frequencies below those of visible light. Electromagnetic radiation travels by means of oscillating electromagnetic fields that pass through the air and the vacuum of space.

Information is carried by systematically changing (modulating) some property of the radiated waves, such as amplitude, frequency, phase, or pulse width. When radio waves pass an electrical conductor, the oscillating fields induce an alternating current in the conductor. This can be detected and transformed into sound or other signals that carry information.



# Who has invented radio?

In 1895 Alexander Stepanovich Popov built his first radio receiver, which contained a coherer. Further refined as a lightning detector, it was presented to the Russian Physical and Chemical Society on May 7, 1895. A depiction of Popov's lightning detector was printed in the Journal of the Russian Physical and Chemical Society the same year. Popov's receiver was created on the improved basis of Lodge's receiver, and originally intended for reproduction of its experiments.



# Who is Popov?

## Alexander Stepanovich Popov (1859-1906)

was a Russian physicist who first demonstrated the practical application of electromagnetic (radio) waves, although he did not apply for a patent for his invention.

Born in the village Turinskiye Rudniki (now Krasnoturinsk, Sverdlovsk Oblast) in the Ural mountains as the son of a priest, he became interested in natural sciences early in his youth. His father ensured that Alexander received a good education at the seminary at Perm, and later studying physics at the St. Petersburg university. After graduation in 1882 he started to work as a laboratory assistant at the university. However, due to the bad funding of the university he changed to a teaching job at the Russian Navy's Torpedo School in Kronstadt on Kotlin Island.

Beginning in the early 1890s he conducted experiments along the lines of Heinrich Hertz's research. In 1894 he built his first radio receiver, which contained a coherer.

Further refined as a lightning detector, it was presented to the Russian Physical and Chemical Society on May 7, 1895—the day has been celebrated in the Russian Federation as "Radio Day".



# Radio day.

Radio Day is a commemoration of the development of radio in Russia. It takes place on May 7, the day in 1895 on which Alexander Popov successfully demonstrated his invention.

Radio Day was first observed in the Soviet Union in 1945, on the 50th anniversary of Popov's experiment, and some four decades after his death. Radio Day is officially marked in Russia and Bulgaria.





# Radio nowadays.

Today radio is popular mass media.  
There are many radio stations worldwide.  
Any of them can be caught practically everywhere.  
Despite the fact that where you are.  
The problem of Popova has been  
executed.  
He has created the device which can  
function without wires.

