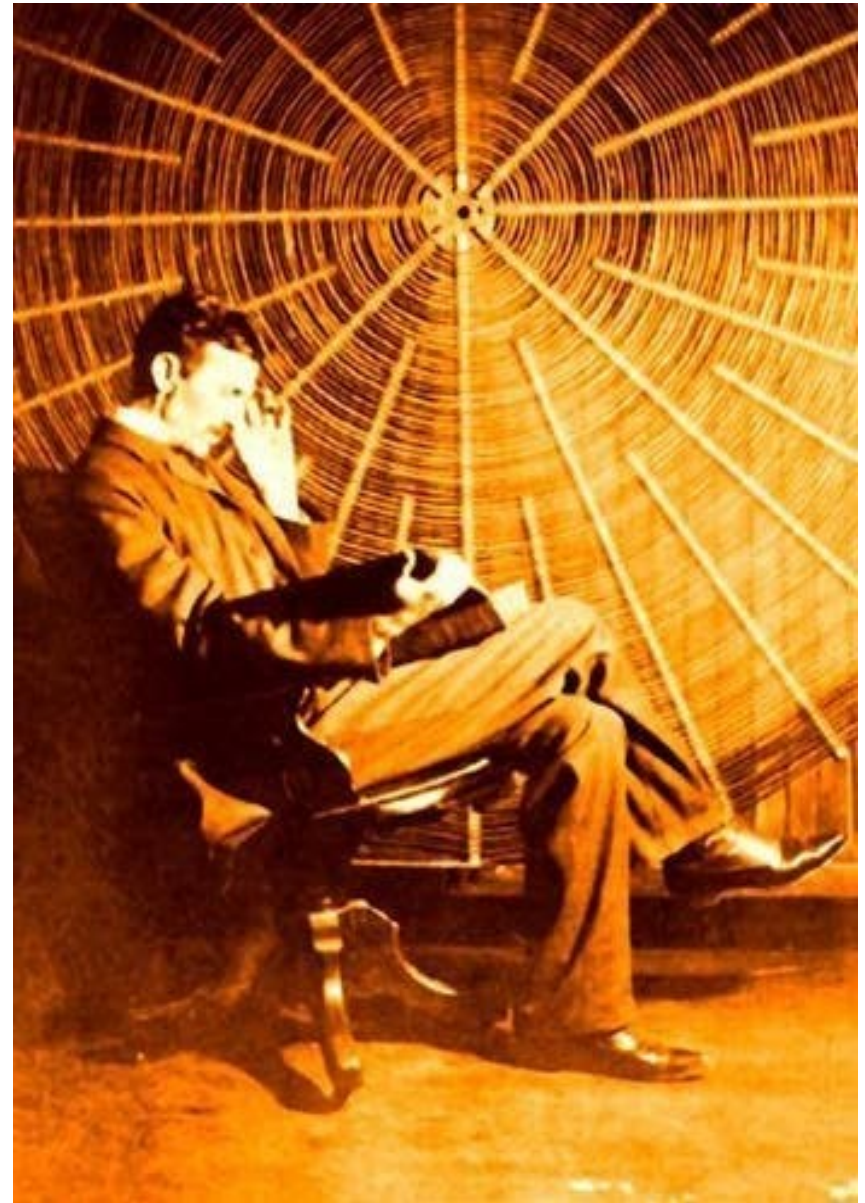


# Nikola Tesla

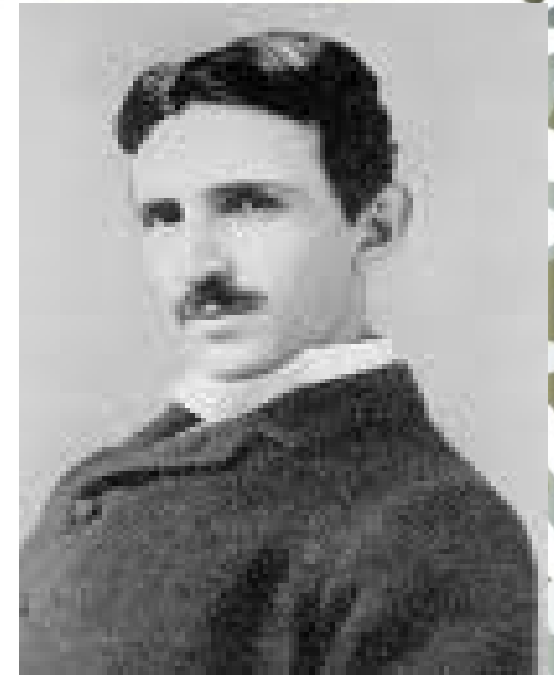
Known For:

- Tesla coil
- Tesla turbine
- Teleforce
- Tesla's oscillator
- Tesla electric car
- Tesla principle
- Alternating current
- Induction motor
- Rotating magnetic field
- Wireless technology
- Particle beam weapon
- Death ray



Born 10 July 1856  
Smiljan, Austrian Empire

Died 7 January 1943 (age 86)  
New York City, New York, USA



He was a mechanical and electrical engineer who had photographic memory and was well ahead of his time.

He was interested in harnessing natural power to create energy and had little regard for theoretical science.

“I know two great men one is you and the other is this young man.” Charles Batchelor to Thomas Edison in a letter of recommendation of Tesla

Tesla worked for Thomas Edison in New York but due to differing opinions in DC and AC caused a life long feud.

Tesla reads in front of a Tesla coil which uses magnetic oscillation to enhance electrical charges



“He had no hobby, cared for no sort of amusement of any kind and lived in utter disregard of the most elementary rules of hygiene ... His method was inefficient in the extreme, for an immense ground had to be covered to get anything at all unless blind chance intervened and, at first, I was almost a sorry witness of his doings, knowing that just a little theory and calculation would have saved him 90 percent of the labor. But he had a veritable contempt for book learning and mathematical knowledge, trusting himself entirely to his inventor's instinct and practical American sense.”

Tesla when asked about Edison after his death

# Direct Current vs. Alternating Current

## DC

- Flows only one way
- Minimal range of only two miles
- Low voltage
- Large energy loss

## AC

- Changes direction up to 60 times a second
- Cyclical and therefore suffers minimal energy loss
- Infinite range
- Capacity to carry extremely high voltage

# Rotating Magnetic Field

The rotating magnetic field is created by a rotating magnet (obviously) and three coils placed 120 degrees apart from each other. Although magnets lose their magnetism with every reaction this is an entirely self-contained motor with no outside power source. This was the basis for electrical engines and green energy.



180 ft. Transmitting Tower  
capable of producing 100 ft.  
long lightning bolts.

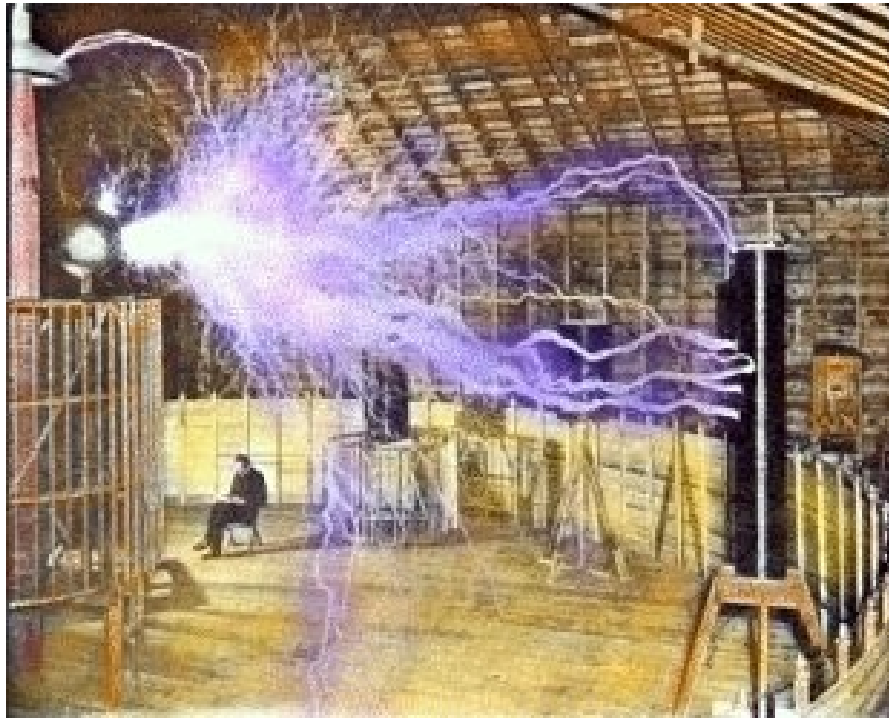


After creating the rotating magnetic field Tesla moved to Colorado Springs to work for himself.

It is here that he discovered wireless technology.

The earth is a conductor!

# Energy For the Whole World



- “Impossible as it seemed, this planet, despite its vast extent, behaved like a conductor of limited dimensions..... Not only was it practicable to send telegraphic messages to any distance without wires, as I recognized long ago, but also to impress upon the entire globe the faint modulations of the human voice, far more still, to transmit power, in unlimited amounts, to any terrestrial distance and almost without loss. “
- Tesla in an article Electrical World and Engineer, March 5, 1904



# The Death Ray



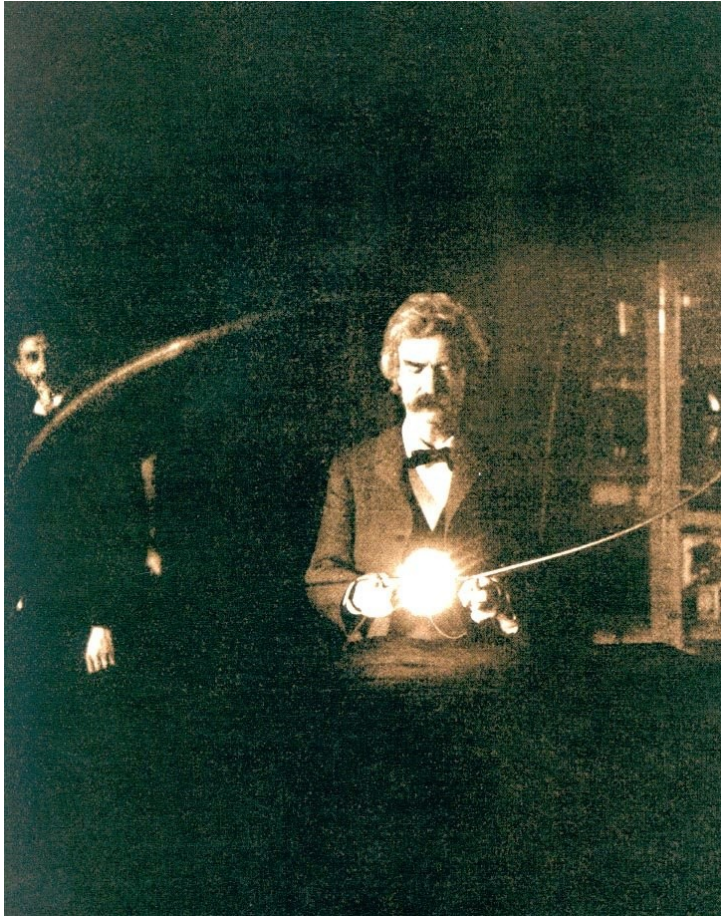
Capable of destroying 10,000 planes 200 miles away.

It is a highly charged magnetic beam which would be emitted from power plants.

This is used today by police in riot control

Because power plants are stationary this was a defensive weapon

Mark Twain and Nikola Tesla  
conducting an experiment.



Tesla invented over 700  
inventions.

The A/C adapter is one of  
the top ten inventions ever  
thought of.

Many of his patents are just  
now being applied properly.

**Research him yourself**  
**he is way cool!**