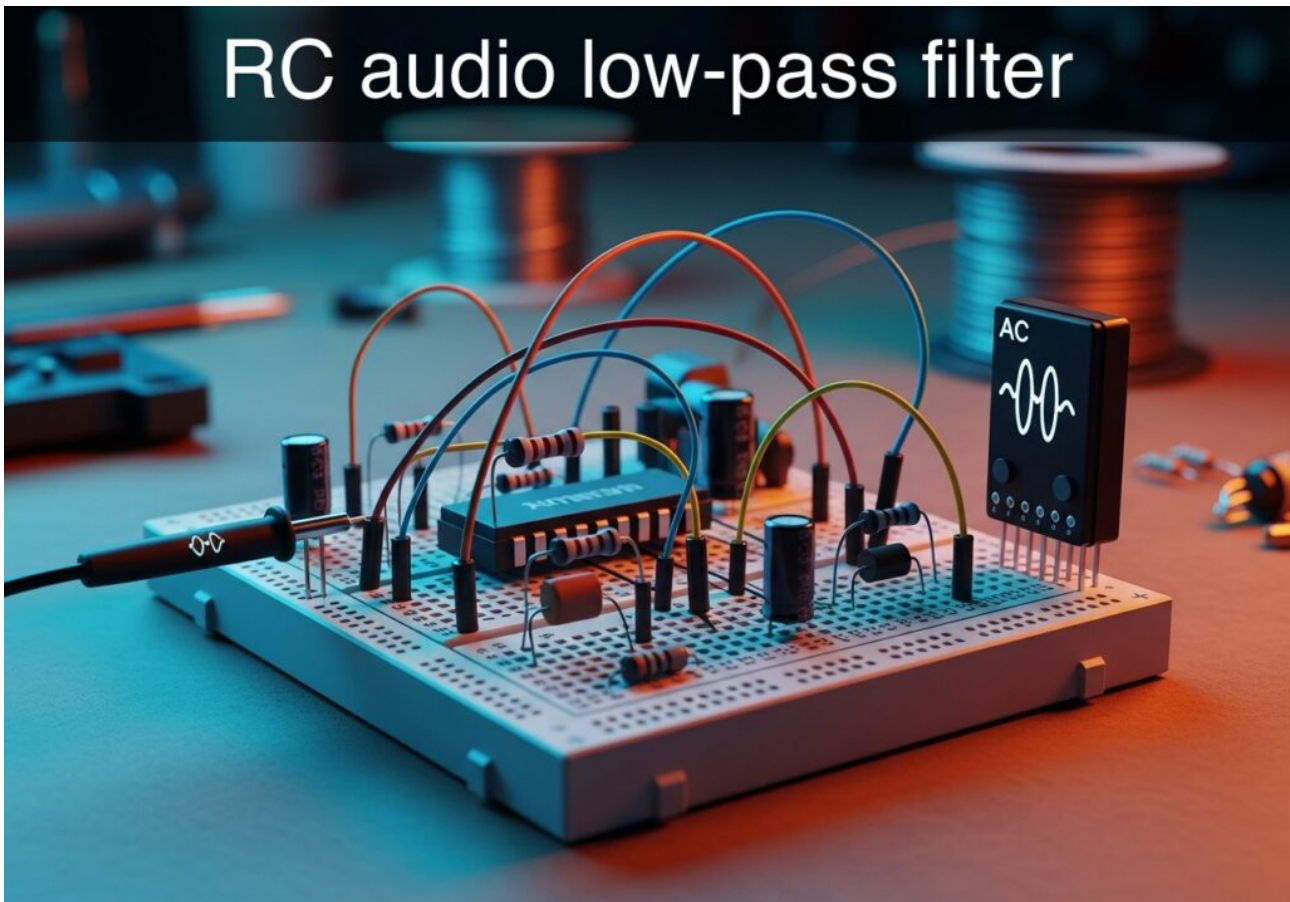


## Practical case: RC audio low-pass filter

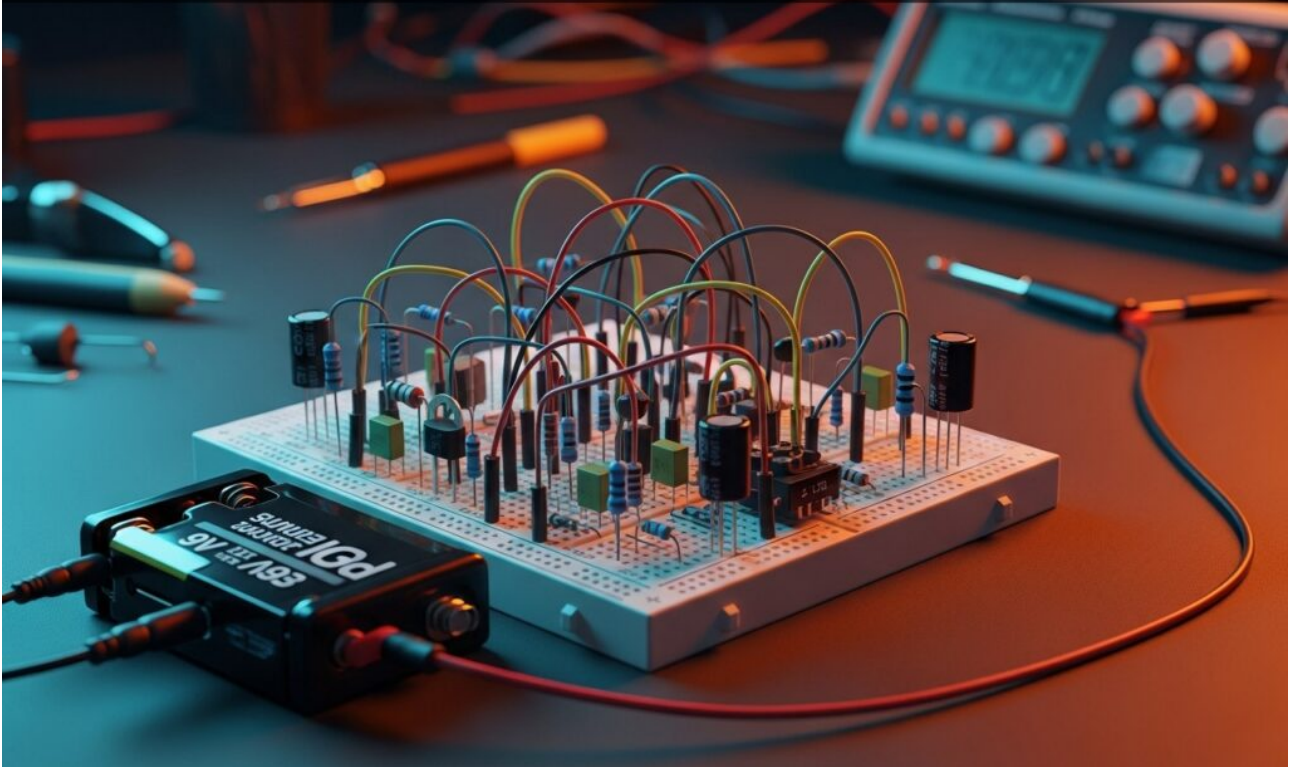


Master Analog Electronics by building a Low-Pass Filter with a Capacitor. Learn to attenuate high frequencies and verify signal cutoff points in real circuits.

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## Practical case: Simple Transistor Timer

# Simple Transistor Timer

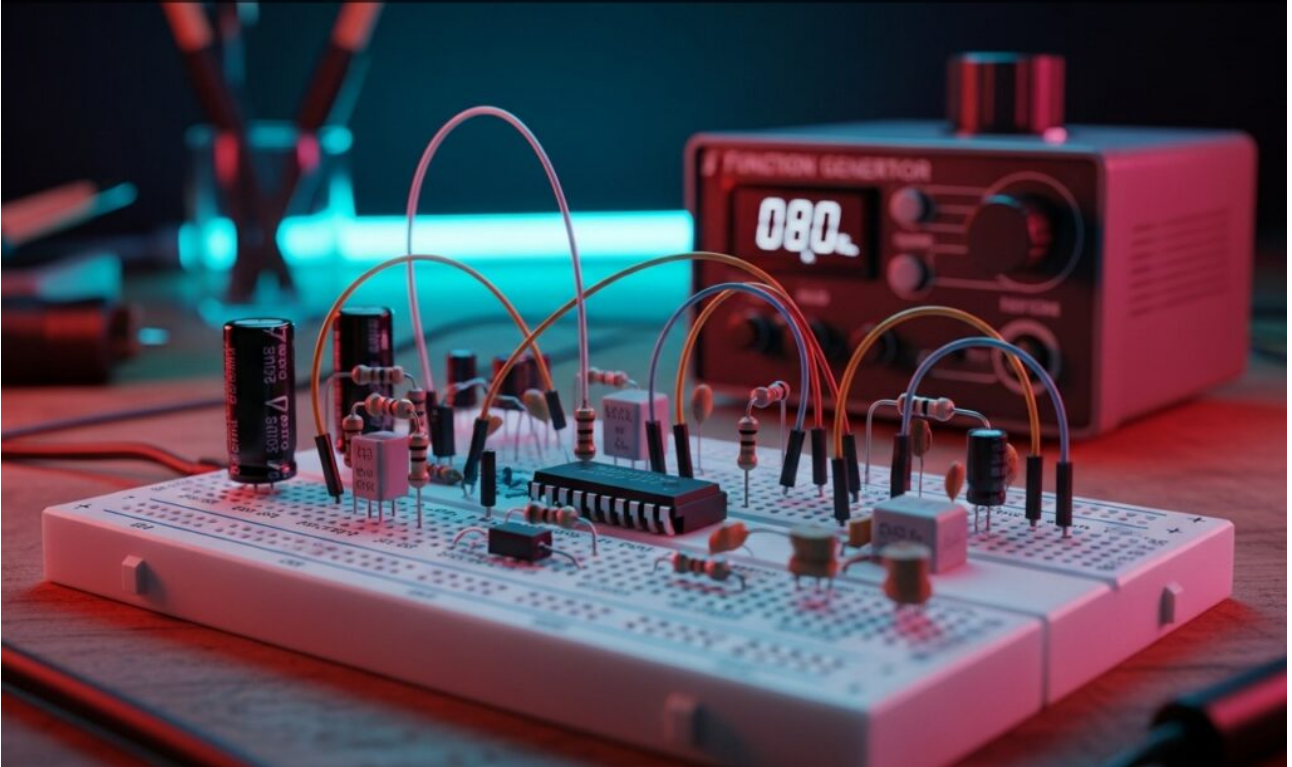


Learn Analog Electronics by building a practical off-delay timer. Use a Capacitor to control transistor switching and create custom lighting fade-out effects.

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**Practical case: DC blocking**

# DC blocking

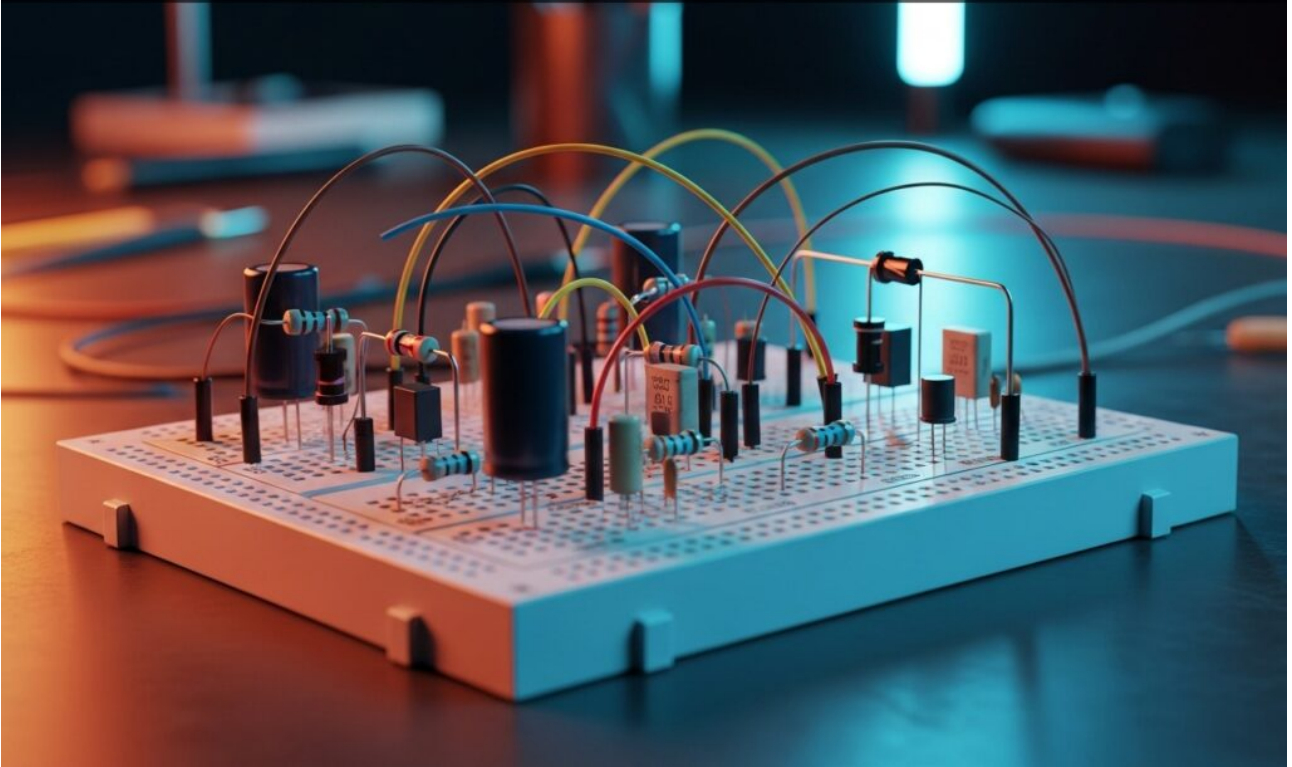


Master Analog Electronics by building a coupling circuit with a Capacitor. Learn to block DC offsets while passing AC audio signals for clear, centered output.

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## **Practical case: Basic rectifier filtering**

# Basic rectifier filtering

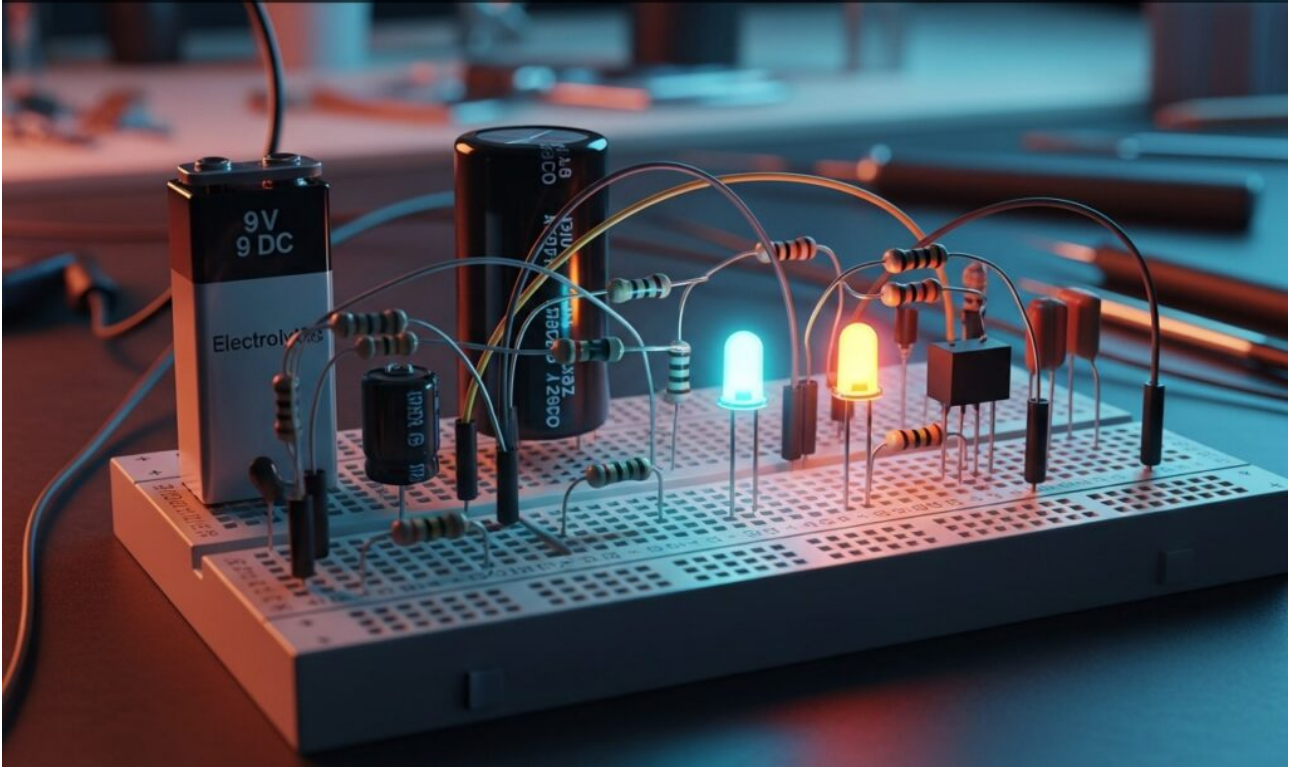


Master Analog Electronics by building a rectifier circuit. See how a Capacitor transforms AC ripple into steady DC voltage for reliable power supplies.

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**Practical case: Visual Charge and Discharge with LED**

# Visual Charge and Discharge with LED

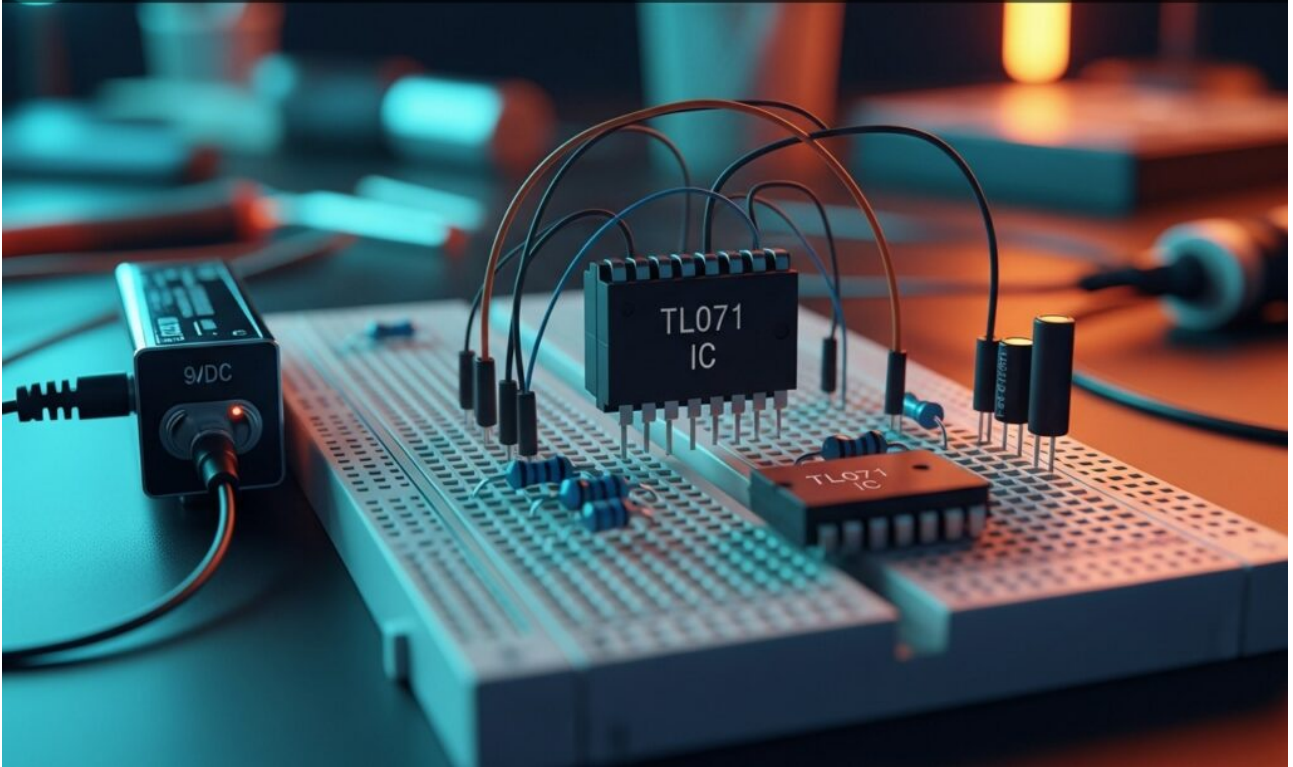


Explore Analog Electronics by building a circuit where a Capacitor keeps an LED fading out after power loss, visualizing energy storage and RC time constants.

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**Practical case: Modulated light audio receiver**

# Modulated light audio receiver



Master Analog Electronics by building an optical audio receiver. Use a Photodiode and TIA to demodulate light beams into clear, isolated audio signals.