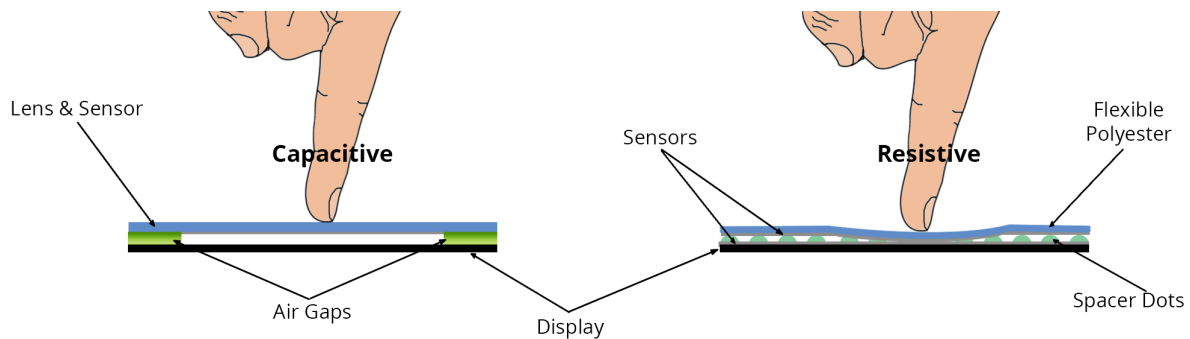


# Mobile Computing



Mobile computing has brought revolutionary change to our lives. Communications, multimedia, and connectivity have all drastically changed in the last decade. In year 2003-5, phones were very basic and were only used for calls and messages. Palm tops considered something revolutionary as they were in color and could be used for emails and data transfer.



## Touch Screen

The breakthrough was the development of the touch screen. Touch screen works in two ways, capacitance, and resistive screens. Capacitance method works with anything which holds the charge, for example, it is uses capacitance from our fingers to operate. Resistive screens work by using pressure of our finger which changes current flow.

## 4G and 5G Communication

5G is based on OFDM (Orthogonal frequency-division multiplexing), a method of modulating a digital signal across several different channels to reduce interference. 5G uses 5G NR air interface alongside OFDM principles. 5G NR interface is better in scalability and degree of flexibility. 5G is designed to not only deliver faster, better mobile broadband services compared to 4G LTE, but also expand into new service areas such as mission-critical communications and connecting the massive IoT.

