





04.GPS - How is working?

HOW DOES GPS WORK

A GPS DEVICE TELLS YOU WHERE YOU ARE BY CALCULATING ITS EXACT DISTANCE FROM 4 GPS SATELLITES AT A GIVEN TIME.

1) 31 SATELLITES ORBIT THE EARTH,
24 ARE ALWAYS OPERATIONAL

2) 6 GPS SATELLITES ARE ALWAYS
'VISIBLE' FROM EARTH

3) THE SATELLITES CONTINUOUSLY
TRANSMIT THEIR PRECISE
LOCATION AND TIME

4) OUR GPS RECEIVERS PICK UP
THE SATELLITES' SIGNALS AND
DETERMINE OUR LOCATION
BY TRIANGULATION*

*TRIANGULATION: WORKING OUT OUR LOCATION BASED ON THE INTERSECTING AREA BETWEEN ALL THE GPS SATELLITES THAT THE GPS RECEIVER COMMUNICATES WITH.



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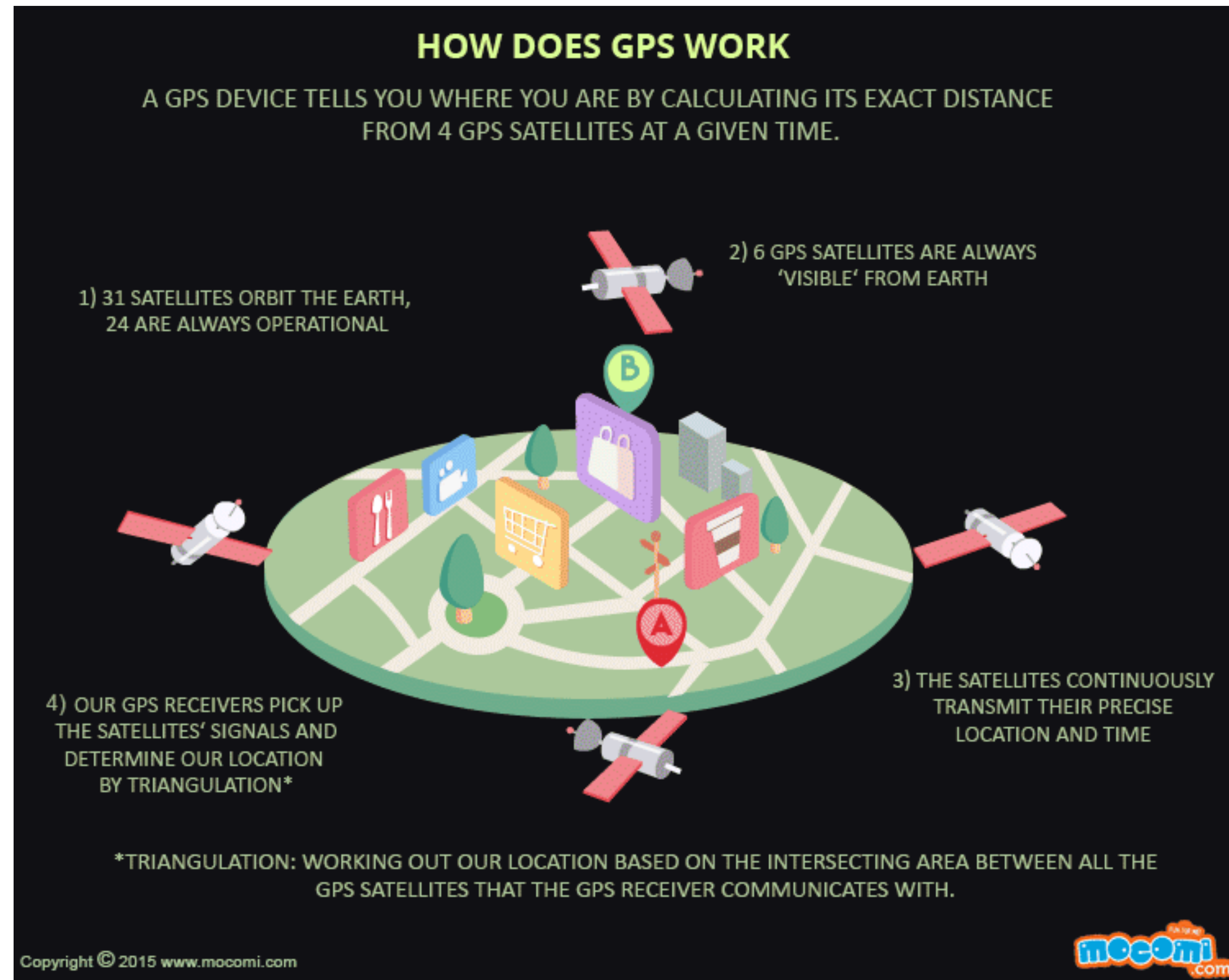
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