

git informed

UPDATES YOU'LL ACTUALLY WANT TO PULL



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Section 1

How GPS Works

(And Why It Betrayed Me)

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Let me tell you about the time my phone confidently marched me straight into the creek behind our college instead of the COE. There I stood, scratched and confused, while Maps insisted I had arrived at the exam cell! That's when I learned GPS isn't all magic - it's space science with a sense of math!

Even now, about 30 satellites are orbiting 20,000 km above us, each carrying a clock more precise than your morning alarm that rings 15 times. They constantly broadcast their location and the exact time.

Your phone plays the absolute TinTin (he's a detective guyz, for those of you who don't know him):

1. It listens for signals from at least 4 satellites
2. Calculates how long each signal took to arrive
3. Uses this to triangulate your position

But how can such a lovely system even go wrong? Here's the catch - GPS gives raw coordinates, but it is the apps that interpret them. It can be because of outdated data, shortcuts that can't be used irl, and finally, your phone getting into an existential crisis.

So what should you do to ensure you use GPS to help you actually find your way?

1. Always look up from your phone - real landmarks beat the phone



2. When in doubt, ask a local (or observe where the goats are going)
Remember you're literally navigating using satellites moving at 14,000 km/h

3. Use a physical paper map (bad advice, but hi Dora!)



GPS is an incredible technology that works 90% of the time. For the other 10%? Well, that's how adventure stories are made. Just maybe keep some bandages handy for those unexpected bush encounters. Until next time, keep waiting for more technology around you! [Fact for geeks: Those atomic clocks on satellites actually have to account for Einstein's theory of relativity to stay accurate. Your phone is doing rocket science, so never forget that you carry the expanse of the universe in your 10 fingers!]