

MESHTASTIC



TEXT FRIENDS
ON A NETWORK
WE BUILD TOGETHER

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WHAT'S A MESH NETWORK?

THERE ARE MANY KINDS OF MESHES!

A MESH IS A WAY
TO SEND DATA



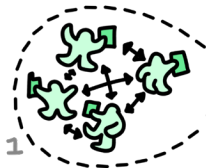
USING PHONES
OR COMPUTERS



RATHER THAN
SENDING DATA
THROUGH A
CENTRALIZED
PATH



IN A MESH WE ALL
PASS ON ENCRYPTED
DATA FOR EACH OTHER,
LIKE A SPIDERWEB



WHAT IS MESHTASTIC?

MESHTASTIC
IS A WAY TO TEXT
LOCAL FRIENDS &
NEIGHBORS

NO WIFI OR
CELL SIGNAL
NEEDED!



YOU'LL NEED
A SPECIAL
DEVICE



WHAT IS A MESH-TASTIC MESH?

RUN BY US

AN OPEN-SOURCE MESH NETWORK

BELONGS TO US!

TEXT ONLY

FOR SENDING ENCRYPTED TEXT MESSAGES

PRIVATE ISH

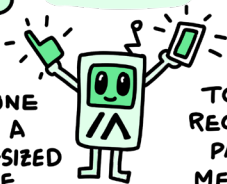
RADIO IS ETERNAL

USING LOW-POWER LONG-RANGE RADIO WAVES

CAN USE SOLAR

100 KM +

EVERYONE NEEDS A POCKET-SIZED DEVICE



TO SEND, RECEIVE & PASS ON MESSAGES

THAT CAN BE USED WITH OR WITHOUT A PHONE

WHY MESH?



IT'S FREE TO TEXT: NO FEES OR SUBSCRIPTION COSTS.



WORKS ON HIKES AND OUTDOOR ADVENTURES!



PRIVATE & ENCRYPTED, NO TECH GIANTS CREEPING ON YOU



OPEN-SOURCE, EVERYONE CAN PLAY WITH IT



WORKS IN STORMS, OUTAGES DISASTERS & SHUTDOWNS



NO CELL SERVICE OR WIFI NEEDED AT ALL!



DIRECT MESSAGES, PUBLIC CHATS & PRIVATE GROUPS



IT'S FUN! FEELS LIKE EARLY INTERNET MESSAGE BOARDS



WHAT'S INSIDE

BRAIN: A TINY COMPUTER OR MICROCONTROLLER (ESP32 OR NRF52) RUNS EVERYTHING

ANTENNA: MAKES RADIO WAVES GO THE DISTANCE



RADIO: SPECIAL LONG RANGE RADIO SENDS THE MESSAGES THROUGH THE AIR

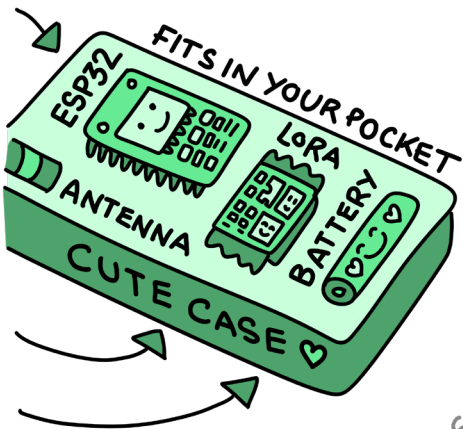
POWER: A SMALL BATTERY KEEPS IT GOING FOR DAYS OR WEEKS (USB OR SOLAR-POWERED)



A DEVICE (NODE)?

CONNECT USING THE
APP ON YOUR PHONE

OR GET A DEVICE WITH
A SCREEN & KEYBOARD,
THEN NO PHONE NEEDED!



MESSAGES 'N

EVERYONE ON THE
MESH HELPS PASS
MESSAGES ON



HOW FAR

IT DEPENDS! RA
BLOCKED BY HILLS,

TINY HOP



URBAN
0.5-2KM
DENSE CITY

WEE HOP



SUBURBAN
2-5 KM
HOUSES+TREES

HOP' TO GO FAR

MESSAGES CAN 'HOP' 3X
(MAX 7) TO PRIVATELY
REACH A FRIEND



IS A HOP?

DIO WAVES CAN BE
BUILDINGS & TREES



RURAL/OPEN
5-15 KM
FIELDS+TREES



ELEVATION
100+KM
MOUNTAINTOPS 8

WHAT'S THE



KEEP IT SHORT:

200 CHARACTERS MAX. BUT SEND AS MANY MSGS AS YOU WANT, IT'S FREE. LINKS & EMOJI WORK TOO!



KEEP IT LOCAL:

RADIO WAVES CAN GET BLOCKED BY BUILDINGS, TREES & BARRIERS. RANGE MATTERS.



DECENTRALIZED

& ENCRYPTED MEANS ANYONE CAN SEND ANY MSGS THROUGH YOU, EVEN ONES YOU DON'T LIKE.

CATCH?



LONELY: NOT MANY PEOPLE ARE USING MESHTASTIC YET. YOU WILL HELP CHANGE THIS!



PRIVACY: LOCATION IS ON BY DEFAULT, ADJUST THE CHANNEL SETTINGS



BUGGY: IT'S NEW TECH (2020) SO THERE ARE SOME BUGS.

BOTTOM LINE

MESHTASTIC IS FOR LOCAL TEXTING, HIKING, INTERNET SHUTDOWNS, DISASTERS & EVADING TECH GIANTS. IT'S NOT FOR CROSS COUNTRY CHATS

HOW TO GET ON THE MESH

- 1 BUY OR BUILD A LORA DEVICE
- 2 ADD THE FIRMWARE: DOWNLOAD AT FLASHER.MESHTASTIC.ORG
- 3 GET THE APP: ANDROID, IPHONE, OR WEB AT MESHTASTIC.ORG
- 4 CONNECT: TURN ON BLUETOOTH; TAP+ IN THE APP; SET YOUR REGION; AND NAME YOUR DEVICE
- 5 START MESSAGING: FIND YOUR FRIENDS (OR WRITE NEW FRIENDS)

WANT TO BE A MESH HERO?
INSTALL EXTRA RELAY DEVICES
UP HIGH TO HELP EVERYONE'S
MESSAGES GO FARTHER

GET A DEVICE 'AKA' 'NODE'



LILYGO T-DECK PLUS
BUILT-IN SCREEN & KEYBOARD
NO PHONE NEEDED!
\$95 CAD



SEED T1000-E
\$55 CAD



ELECROW THINKNODE M1
BUILT-IN SCREEN
\$73 CAD



RAK WISMESH TAG
\$55 CAD

YOU CAN ALSO 3D PRINT A CASE, GET A BATTERY, AND USE A LILYGO T-BEAM OR HELTEC LORA 32 V3 (\$35)



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WHY RADIO?

MESHTASTIC USES LORA
(LONG RANGE RADIO) BECAUSE
IT GOES FAR ON VERY LITTLE
POWER, USING CHIRPS LIKE
DOLPHINS OR BATS



LORA USES LICENSE-FREE SUB-GHZ
RADIO, MAKING THIS DO-IT-TOGETHER
& PUNK COMMUNICATION POSSIBLE!



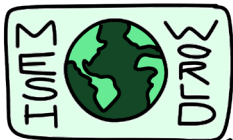
MESHTASTIC REGIONS

- ➔ EUROPE: 868 MHz
- ➔ AMERICAS/TURTLE ISLAND: 915 MHz
- ➔ ASIA-PACIFIC: 921-923 MHz



THE MESH ISN'T
JUST FOR PEOPLE
SCIENTISTS USE IT
TO NETWORK PLANTS
AND ANIMALS TOO

IN THE
FUTURE
WHAT COULD
WE MESH?



FRIENDS, NEIGHBOURS, HIKERS, TINKERERS:
WELCOME TO THE MESH!



@OMARIECLAIRE
MARIEFLANAGAN.COM

WANT TO
TEXT FRIENDS
AND NEIGHBOURS
FOR FREE
ON AN ENCRYPTED
NETWORK WE MAKE
TOGETHER?

