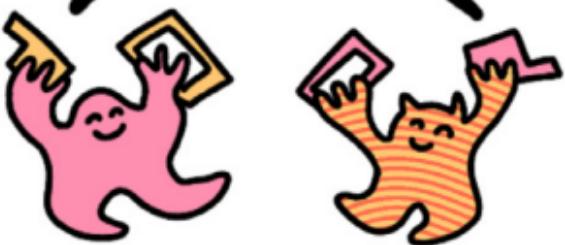


MESH NETWORKS

meshtastic



WANT TO TEXT
ON A NETWORK
WE BUILD TOGETHER?

MARIE LEBLANC FLANAGAN

WHY MESH?

BIG CORPORATIONS CONTROL THE
CELL TOWERS & INTERNET SERVERS.
THEY CONTROL OUR COMMUNICATION

THEY CAN
SHUT IT
ALL OFF



THEY CAN
CHARGE US
BIG MONEY



WHEN IT
BREAKS,
WE WAIT



REMEMBER THE FUN OF TALKING
WITH TIN CANS & STRING?



WHAT IF WE COULD DO IT AGAIN
BUT FOR TEXTING OUR FRIENDS?



WHAT IS MESHTASTIC?

MESHTASTIC
IS A WAY TO TEXT
LOCAL FRIENDS AND
NEIGHBOURS

NO WIFI OR
CELL SIGNAL
NEEDED!



YOU JUST NEED
A SPECIAL RADIO!

JOIN THE RESISTANCE!
FUN & FRIENDS ARE HERE

WHAT'S THE



KEEP IT SHORT:

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



KEEP IT LOCAL:

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



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

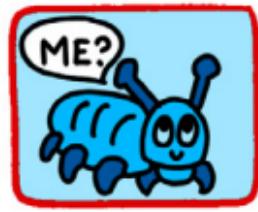
CATCH?



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



PRIVACY: LOCATION IS ON BY DEFAULT, TURN IT OFF IN THE SETTINGS.



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

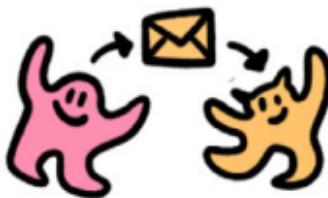
BOTTOM LINE

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

WHAT'S A MESH NETWORK?

THERE ARE MANY KINDS OF MESHES!

A MESH IS A WAY
TO SEND DATA

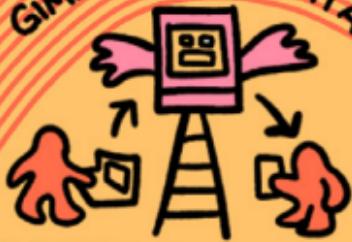


USING PHONES
OR COMPUTERS



RATHER THAN
SENDING DATA
THROUGH A
CENTRALIZED
PATH

GIMME YOUR DATA



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

WHAT IS A MESHTASTIC MESH?

RUN BY
US

AN OPEN-SOURCE
MESH NETWORK

BELONGS
TO US!

TEXT
ONLY

FOR SENDING
ENCRYPTED
TEXT MESSAGES

PRIVATE
ISH

ETERNAL
🕒

USING
LOW-POWER
LONG-RANGE
RADIO WAVES

CAN USE
SOLAR

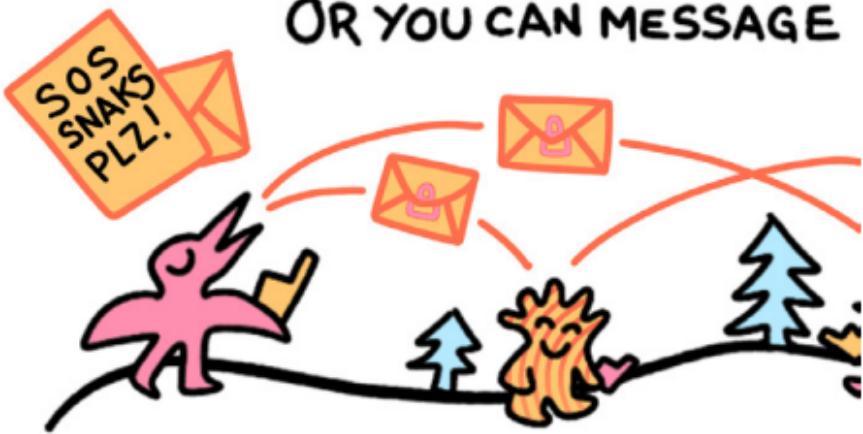
YOU'LL NEED A
POCKET-SIZED
DEVICE

USE THE APP &
YOUR PHONE OR
THE DEVICE ALONE

LIKE WALKIE-TALKIES, BUT FOR TEXTING,
AND WITH SPECIAL 'PASS-IT-ON' MAGIC!

HOW MESSA

A MESSAGE CAN HOP 5x TO
OR YOU CAN MESSAGE



HOW FAR

THE DISTANCE OF A HOP
RADIO WAVES CAN TRAVEL
BY BUILDINGS



URBAN
0.5-2 KM
DENSE CITY



SUBURBAN
2-5 KM
HOUSES, TREES

DIGES 'HOP'

PRIVATELY REACH A FRIEND
EVERYONE AT ONCE



IS A HOP ?

DEPENDS ON BARRIERS,
AN GET BLOCKED
BGS AND TREES



RURAL/OPEN
5-15 KM
FIELDS,TREES



ELEVATION
100+ KM
MOUNTAINTOPS

WHAT'S INSIDE

BRAND A TINY COMPUTER
OR MICROCONTROLLER
(ESP32 OR NRF52)
RUNS EVERYTHING

ANTENNA MAKES
RADIO WAVES GO THE
DISTANCE



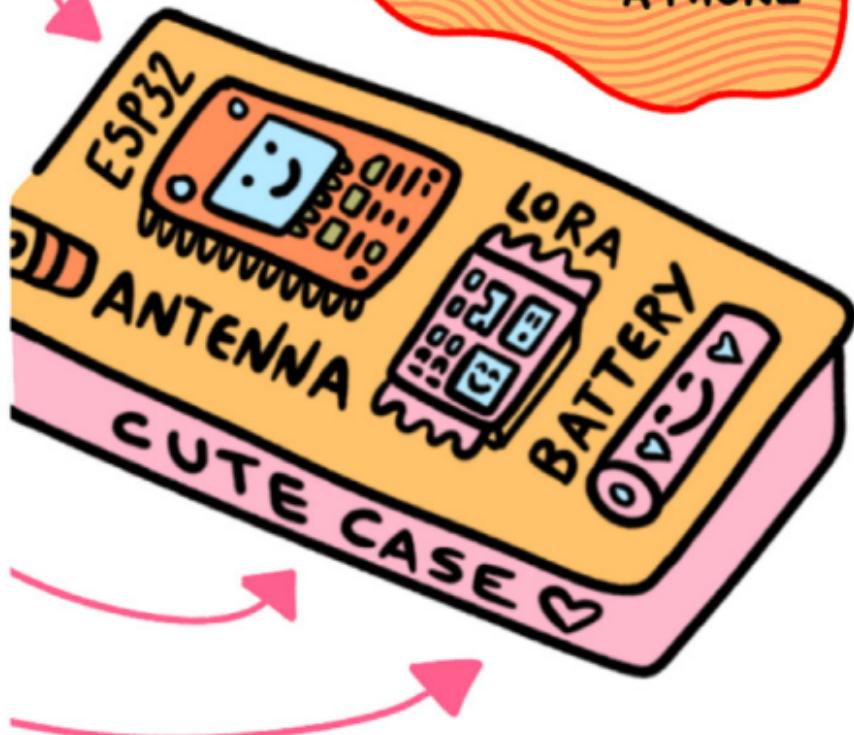
RADIO SPECIAL
LONG RANGE RADIO
SENDS THE MESSAGES
THROUGH THE AIR

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

A DEVICE(NODE)?

CONNECT TO YOUR DEVICE USING
THE MESHTASTIC APP ON YOUR PHONE

OR ADD A KEYBOARD & SCREEN TO
YOUR DEVICE TO SEND MESSAGES
WITHOUT NEEDING
A PHONE



HOW TO GET ON THE MESH

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

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

GET A DEVICE PKA 'NODE

WANT SOMETHING READY TO USE?



LILYGO T-DECK PLUS
USE THIS ONE WITHOUT A
PHONE \$110 CAD

SENSECAP T1000
NO SETUP! \$55 CAD

OK WITH DOING SOME SETUP?

(FOR THESE YOU NEED TO GET A
CASE & BATTERY)



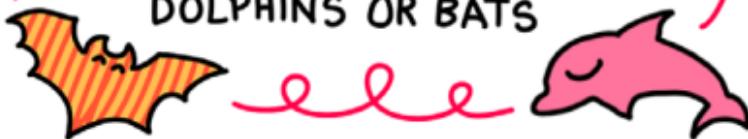
LILYGO T-BEAM
GREAT BATTERY LIFE &
BUILT-IN GPS \$50 CAD



HELTEC LORA 32 V3
PORTABLE & BATTERY
EFFICIENT. \$50 CAD

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 CHANNELS

- ⌚ EUROPE: 868 MHz
- ⌚ TURTLE ISLAND/AMERICAS: 915 MHz
- ⌚ ASIA-PACIFIC: 921-923 MHz
- ⌚ GLOBAL: 433 MHz



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

IN THE
FUTURE
WHAT COULD
WE MESH?



@OMARIECLAIRES
MARIEFLANAGAN.COM

SICK OF
TECH GIANTS
ALWAYS CREEPING
ON YOU?

WANT TO TEXT FRIENDS
ON A NETWORK
WE RUN TOGETHER?

WANT TO TEXT
WITHOUT CELL SERVICE
OR INTERNET?

