

WANTED BYTES

Transfer quickly images over a LoRa network

FILE TRANSFER POLICY

- 01 TCP LIKE COMMUNICATION
- 02 Image fragmentation
- 03 Redundancy Check



WHOa!

Long distance communication is cool, but sometimes they can be tricky

3600s

Time required to transfer 1Mb image .

3600s 1200s

Time required with our solution

IC'S NOT MAGIC, JUST SIMPLE CRICKS



REDUCE THE SIZE

We compress the image size before the transfer



Increase the throughput

The image is transmitted simultaneously over different spreading factors



reconstruct the details



Reduce the size of the image

Lanczos Algorithm can compress an image and make it 3.6 times lighter

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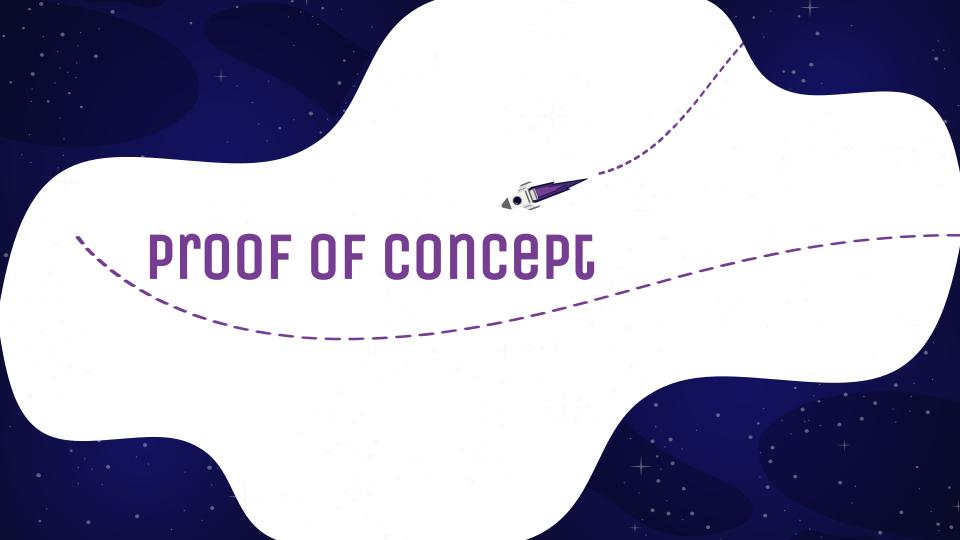
reconstruct the Details

reconstruct the Details



reconstruct the Details







Other useful links:

https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9041044

https://slidesgo.com/theme/galaxy-gradient

http://saocompute.eurac.edu/hackathon_vertical_innovation/platform/