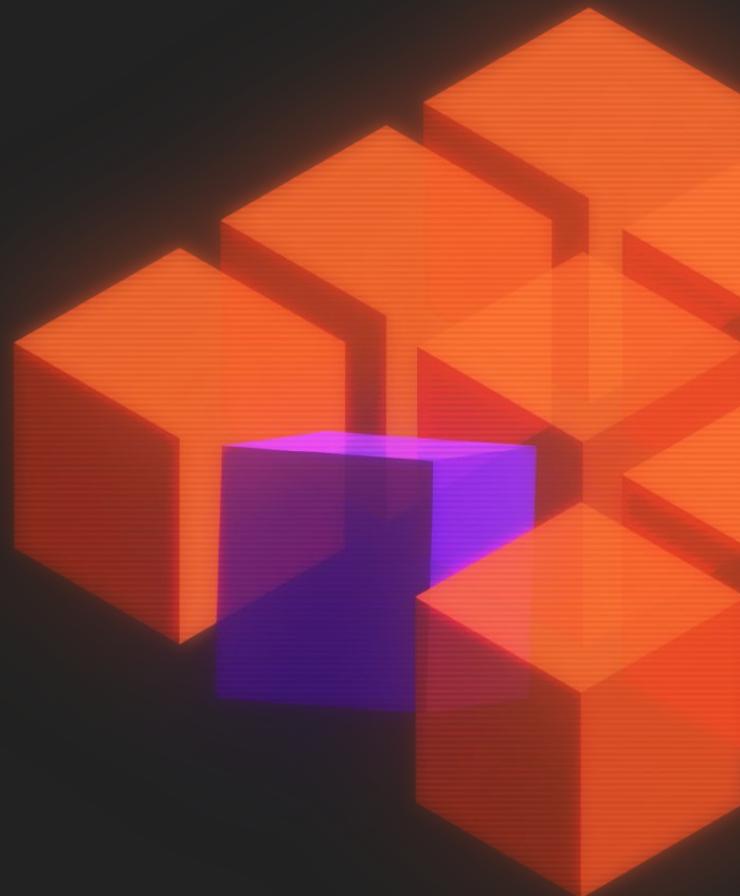


Triangulação Geográfica usando Telegram

ISMAEL DEUS MARQUES



Sumário

- 01 whois
- 02 Conceitos Iniciais
- 03 O abuse e modo de uso
- 04 Possibilidades
- 05 Conclusão

WHOIS

Ismaeldeusmarques.com.br

Twitter: @podpoleguy

TikTok: @podpoleguy

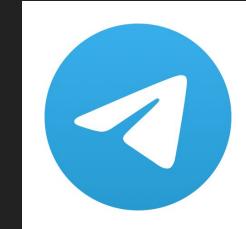


Conceitos Iniciais



The Paper Plane

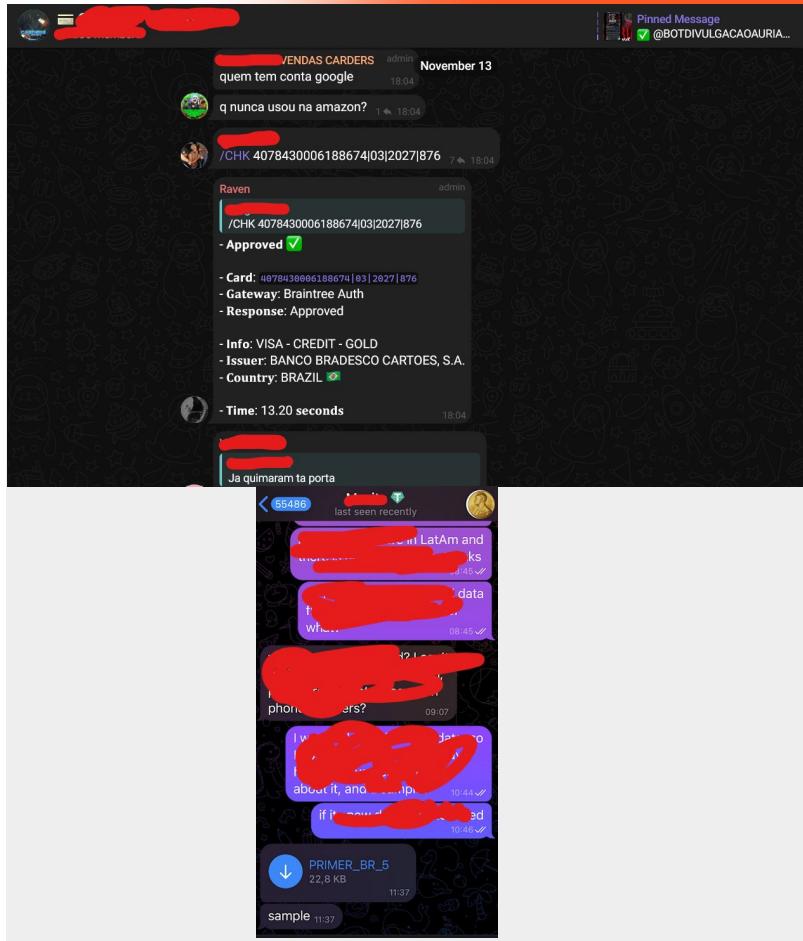
- Criado em 2012, pelos mesmos irmãos fundadores do VK (Nikolai & Pavel Durov);
- O que torna o Telegram tão atrativo?
- Features que tornam a plataforma atrativa para seu atual perfil de usuários:
 - Criptografia ponto-a-ponto e integração c/ proprietárias;
 - Autodestruição de mensagens;
 - Ecossistema fértil de automação: TID, Bot, API....
 - Descoberta de usuários;
 - UserID não vinculado ao celular;



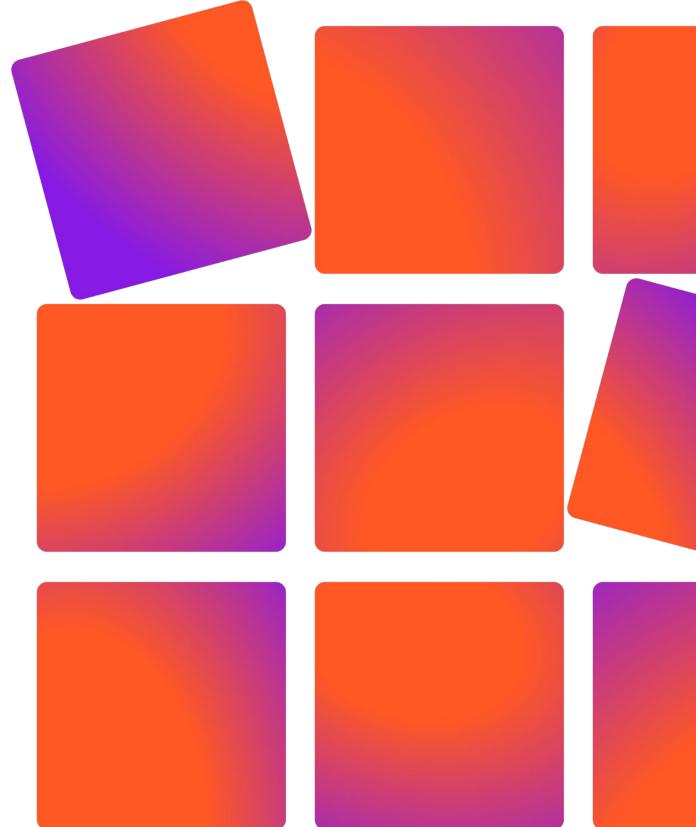
TAs

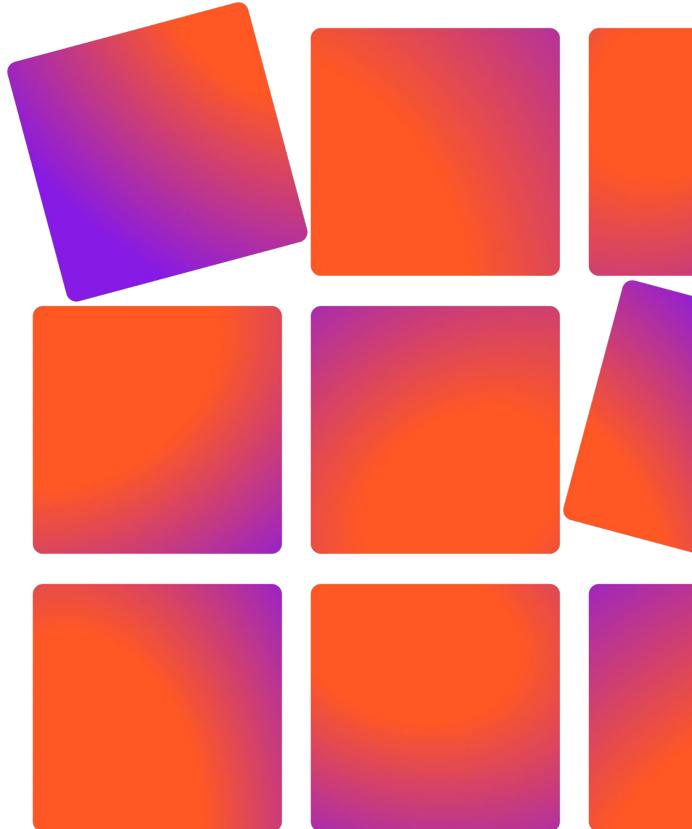
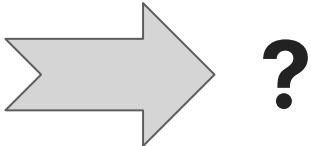
- Atores maliciosos de diferentes naturezas são usualmente identificados utilizando a plataforma;
- Distribuição de Infostealers;
- Vendas de BD;
- Checkers em geral;
- Fraude em geral;
- Paineis;
- Leaks;
- Distribuição de Malware;

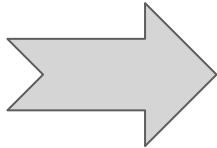
What about Takedown?



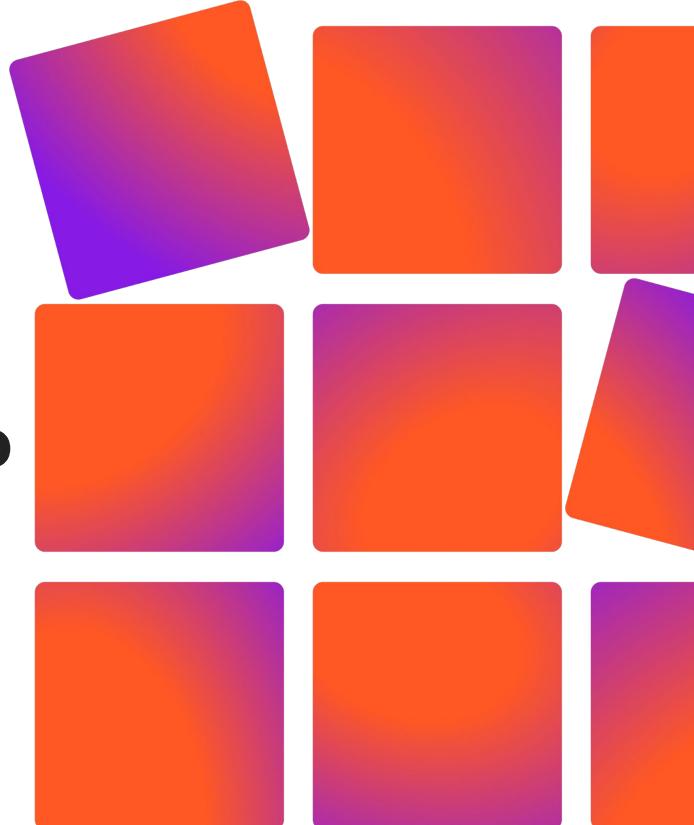
Identificando TA?

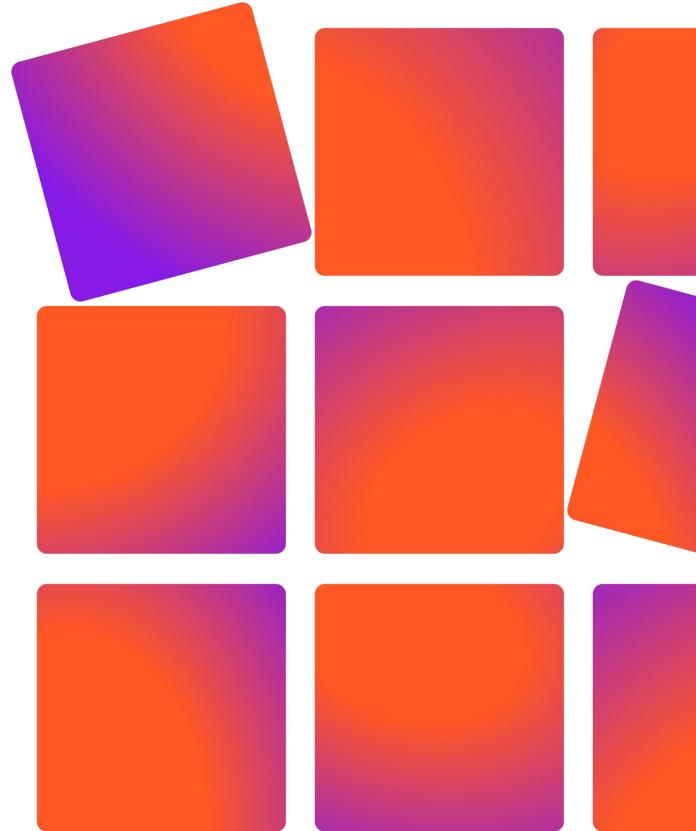
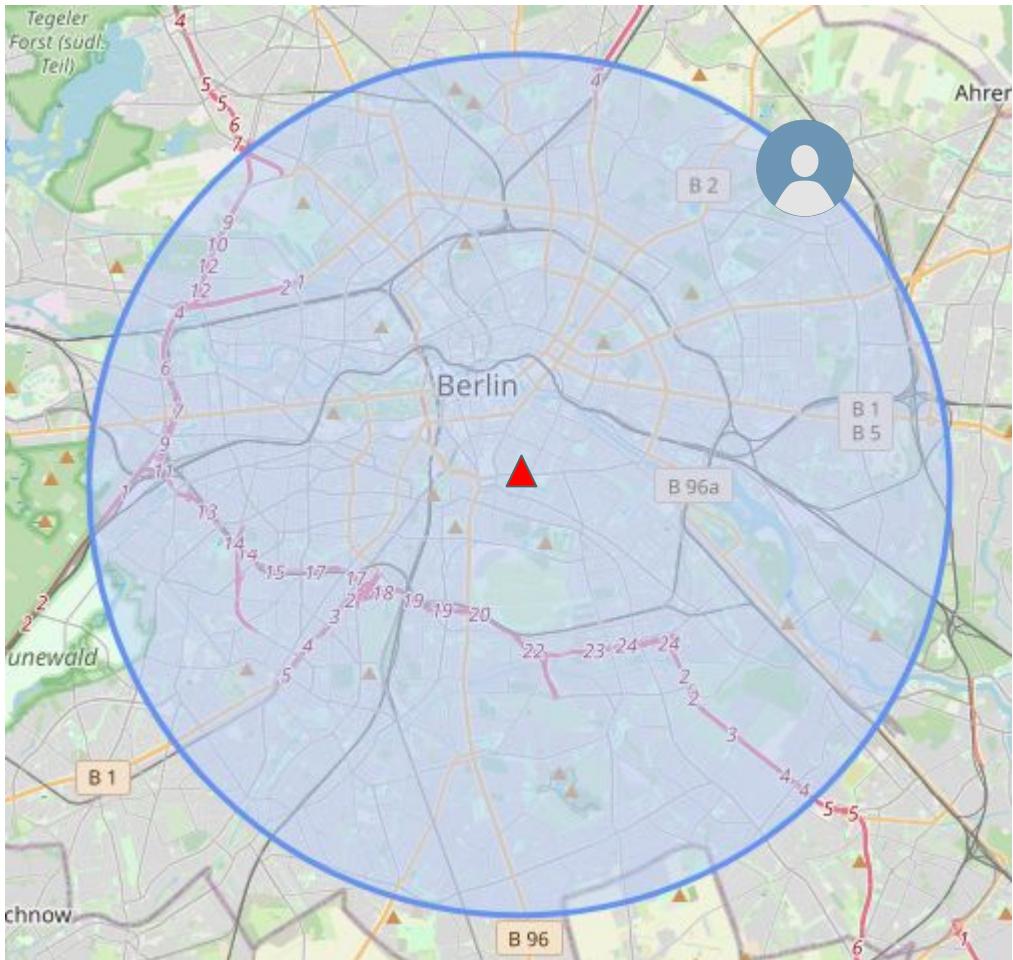


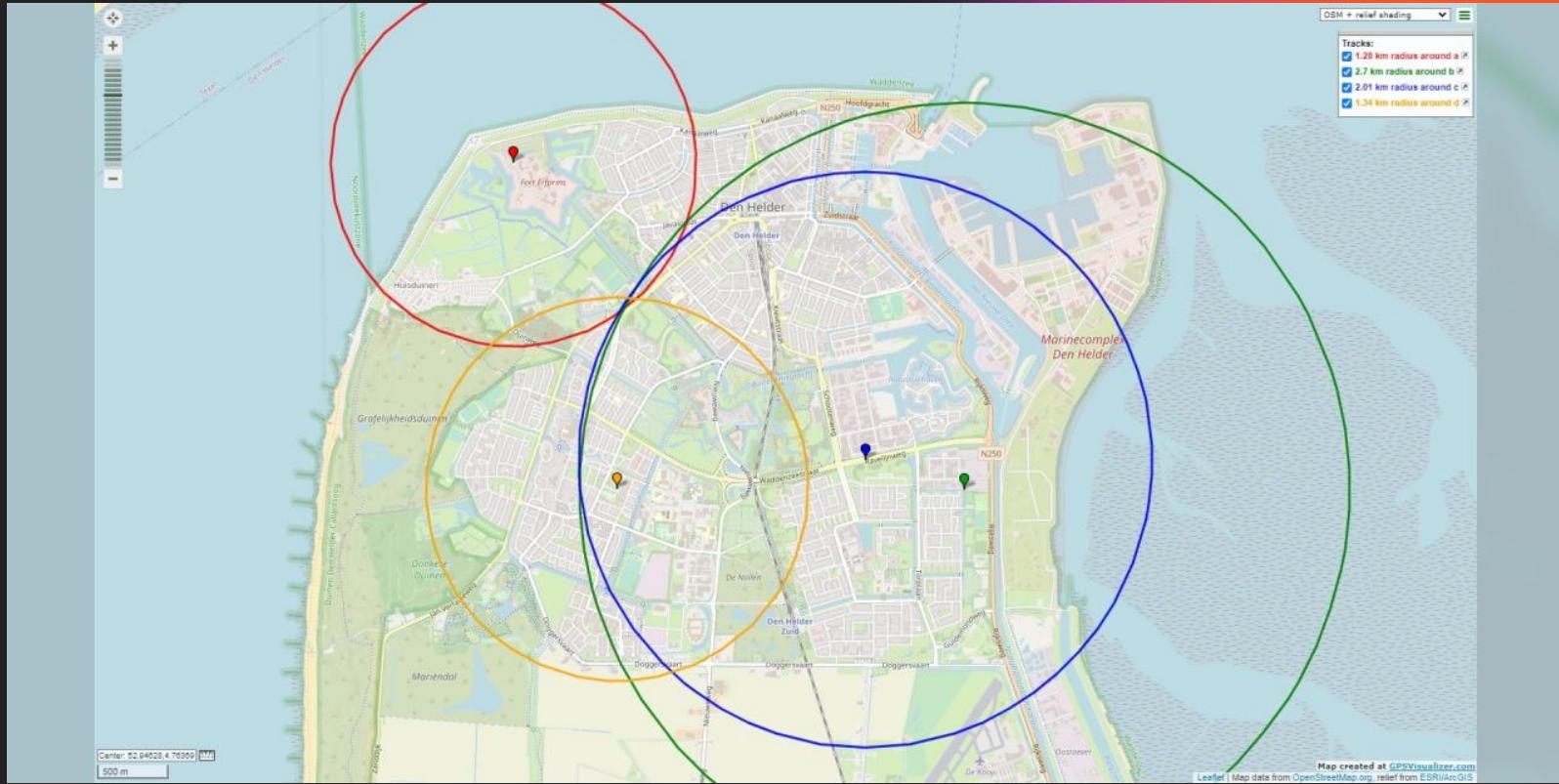


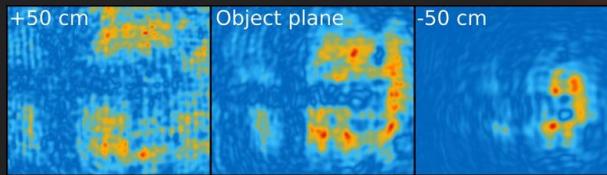
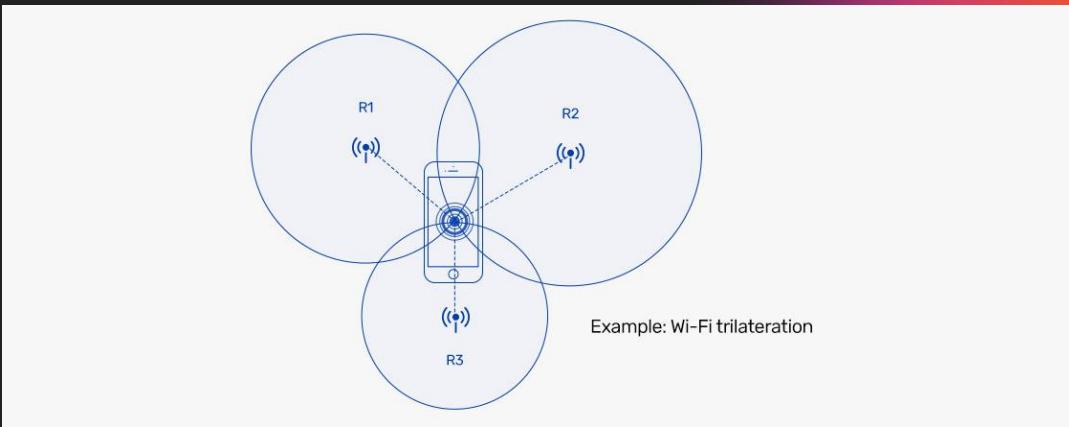


- Centroide
 - Distância
 - Dispositivo
- (username + foto)**









[Featured in Physics](#) | [Open Access](#)

Holography of Wi-fi Radiation
Philipp M. Holl and Friedemann Reinhard
Phys. Rev. Lett. **118**, 183901 – Published 5 May 2012

Physics See Focus story: [Imaging with Your Wi-Fi Hotspot](#)

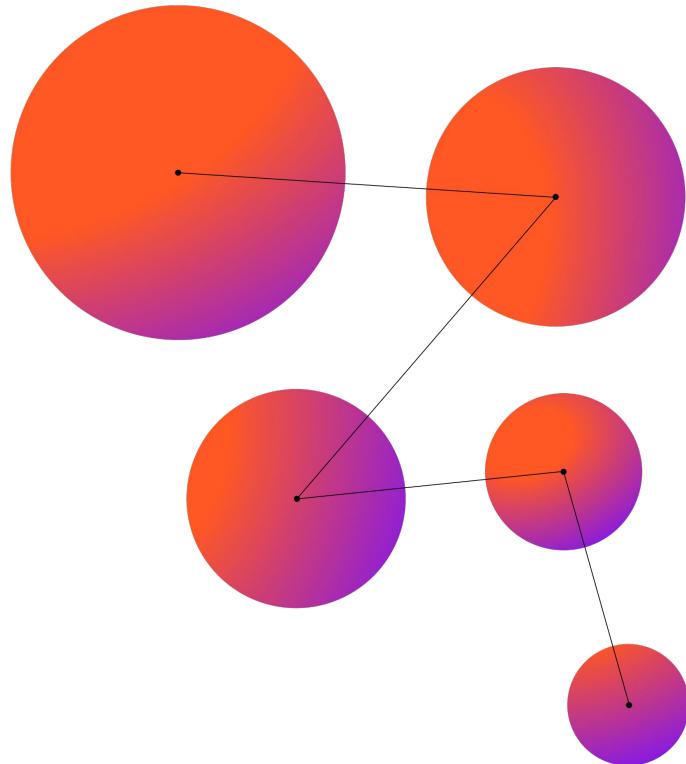
Article	References	Citing Articles (42)	Supplemental Material	PDF	HTML	Export Citation
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ABSTRACT

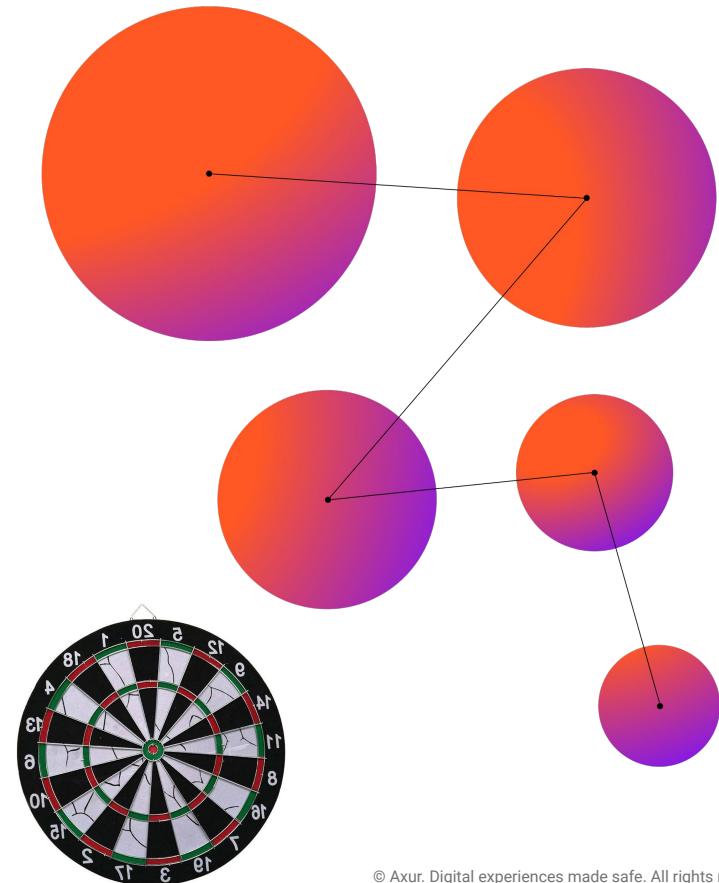
Wireless data transmission systems such as wi-fi or Bluetooth emit coherent light—electromagnetic waves with a precisely known amplitude and phase. Propagating in space, this radiation forms a hologram—a two-dimensional wave front encoding a three-dimensional view of all objects traversed by the light beam. Here we demonstrate a scheme to record this hologram in a phase-coherent fashion across a meter-sized imaging region. We recover three-dimensional views of objects and emitters by feeding the resulting data into digital reconstruction algorithms. Employing a digital implementation of dark-field propagation to suppress multiple reflection, we significantly enhance the quality of the resulting images. We numerically simulate the hologram of a 10-m-sized building, finding that both localization of emitters and 3D tomography of absorptive objects could be feasible by this technique.

Limitações

- A funcionalidade é ativamente explorada/abusada pela comunidade de Inteligência desde as origens do aplicativo;
- Em junho de 2023, o Telegram atualizou a funcionalidade de uma precisão de 100 para 500 metros.
- A atualização não afeta o abuso da funcionalidade, e a precisão deve ser calculada, assim como anteriormente.
- Cálculo:

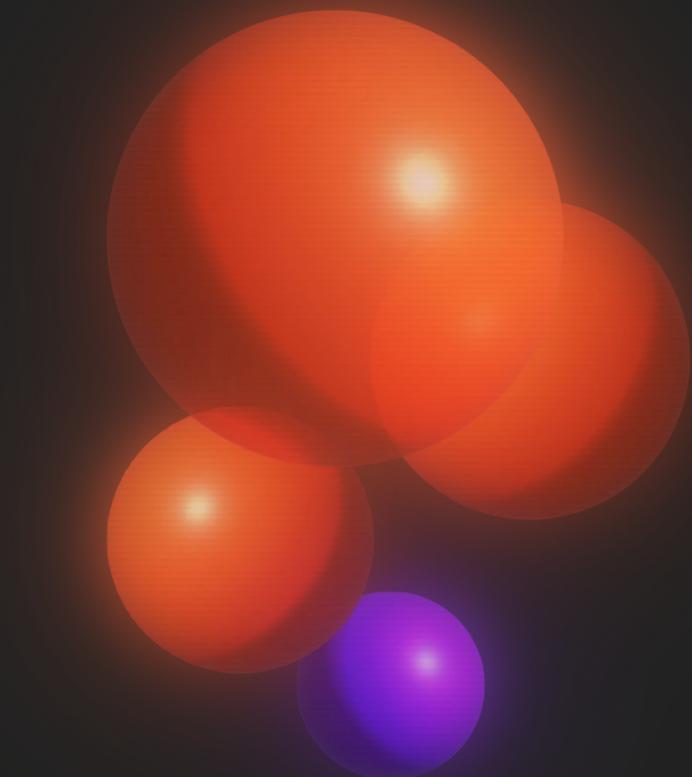


Número de Medidas (N)	Margem de Erro (metros)
1	$N < 3$
2	$N < 3$
3	288.68 m
4	250 m
5	223.61 m
6	204.12 m
7	188.98 m
8	176.78 m
9	166.67 m
10	158.11 m



Escalabilidade

Automatizar ou
não?

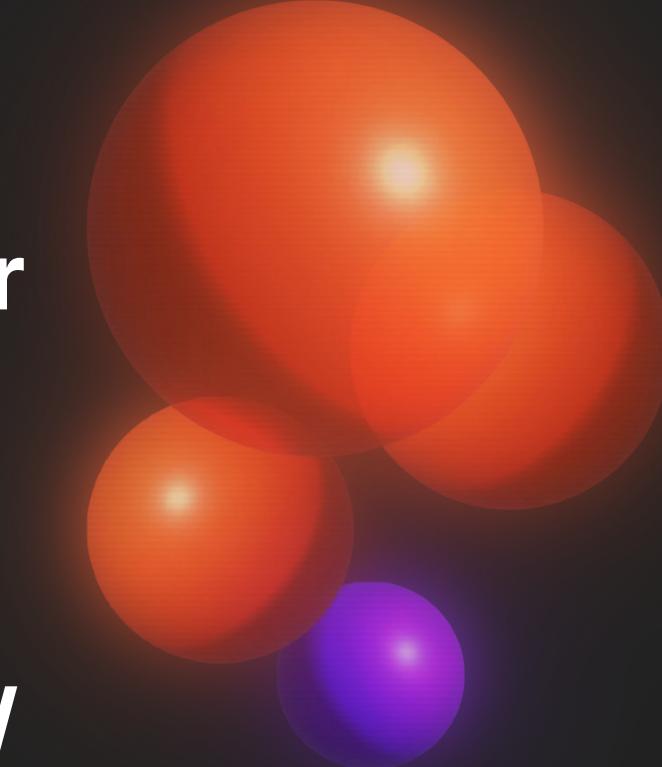


Selected API Metrics



Main:
**tejado/telegram-near
by-map**

Fork:
podpoleguy/loconos/

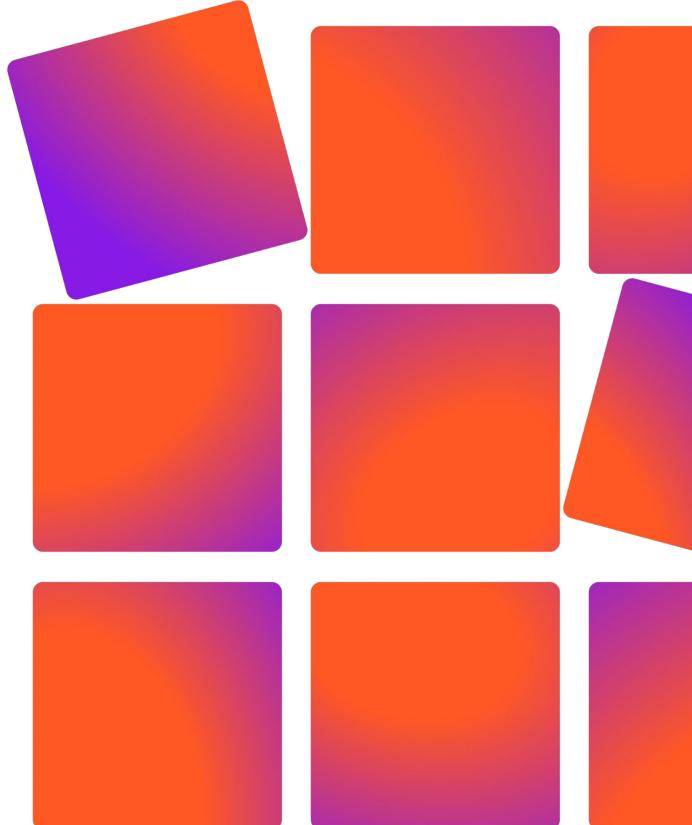


Requisitos

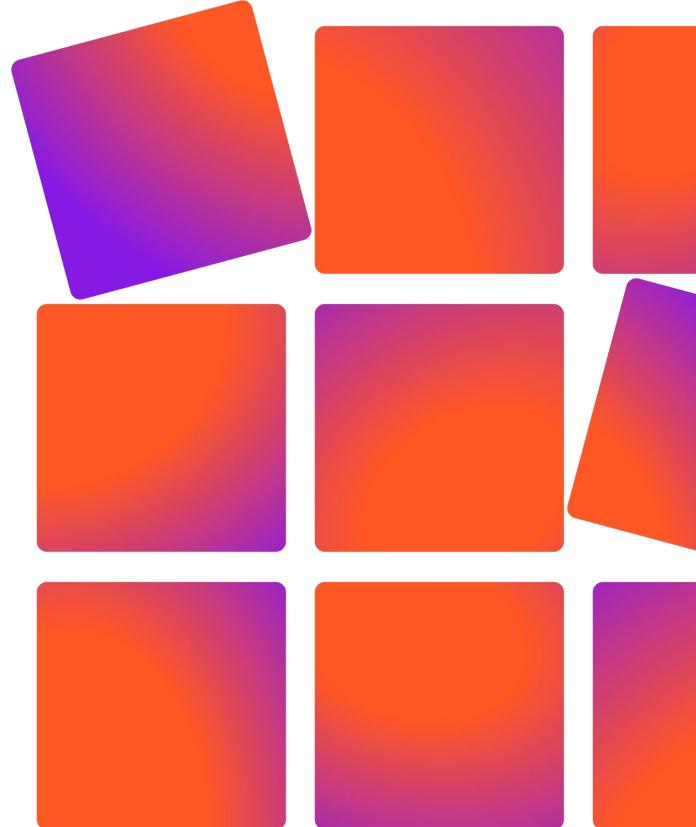
- Telegram API key
- Git
- Node JS
- Device

Cadastro de API

[https://my.telegram.org/
auth](https://my.telegram.org/auth)

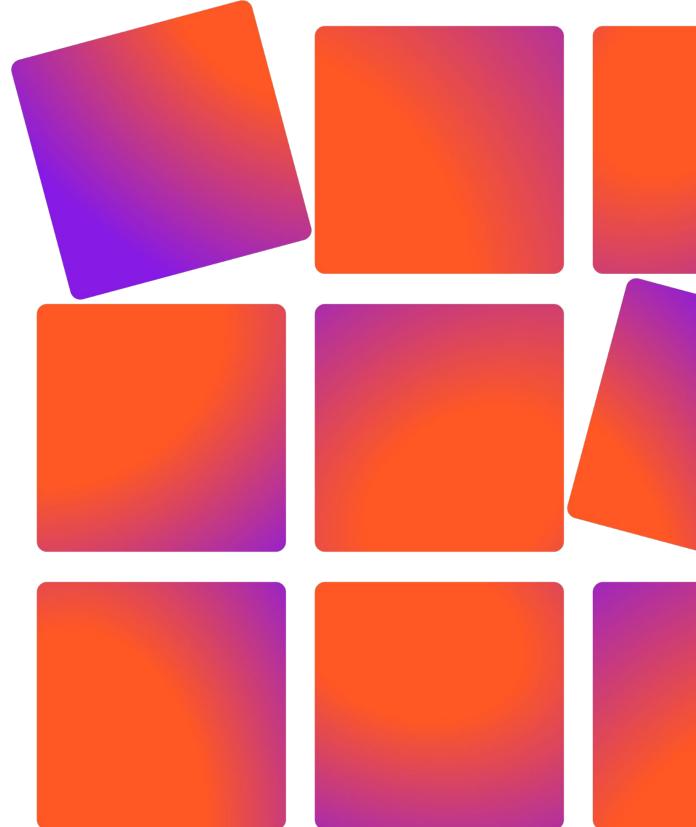


Salvar Hash & Api_key

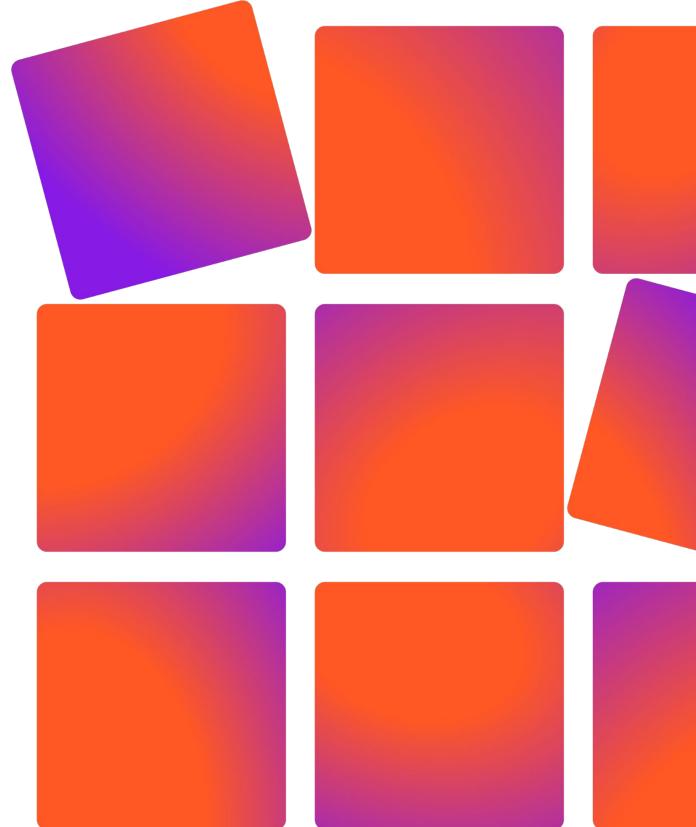


Instalação do Node.js

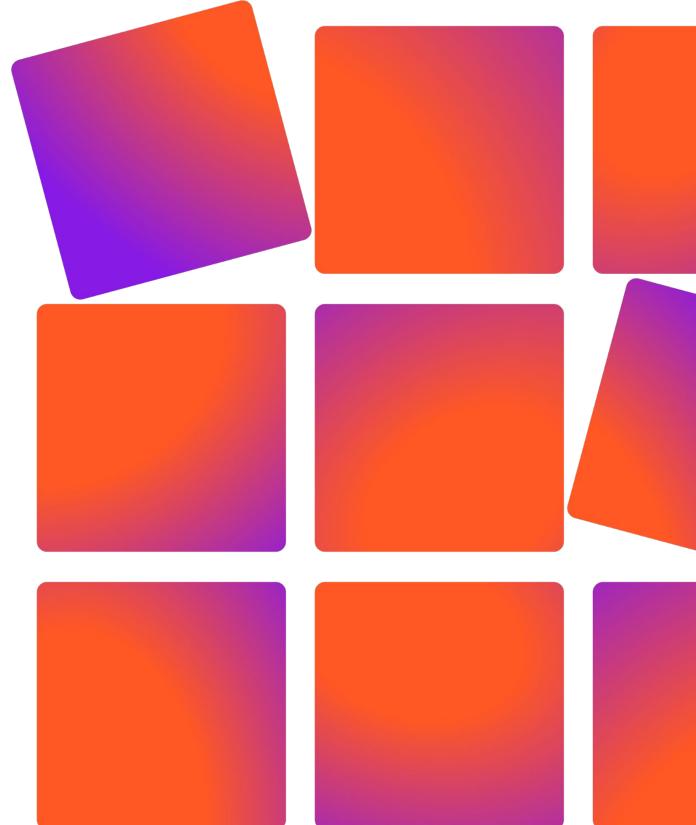
<https://nodejs.org/en/download>



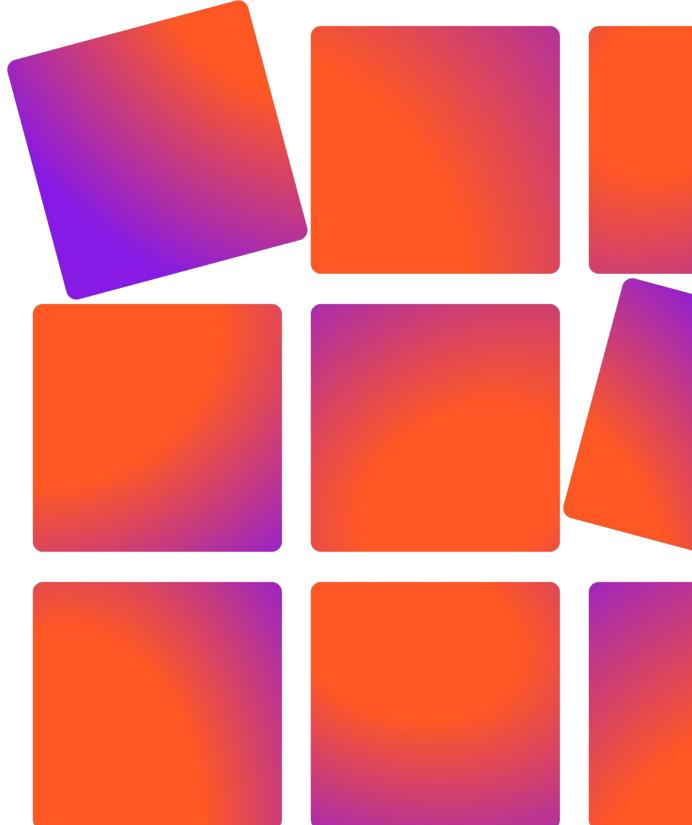
```
git clone  
https://github.com/podpoleguy/loconos/
```



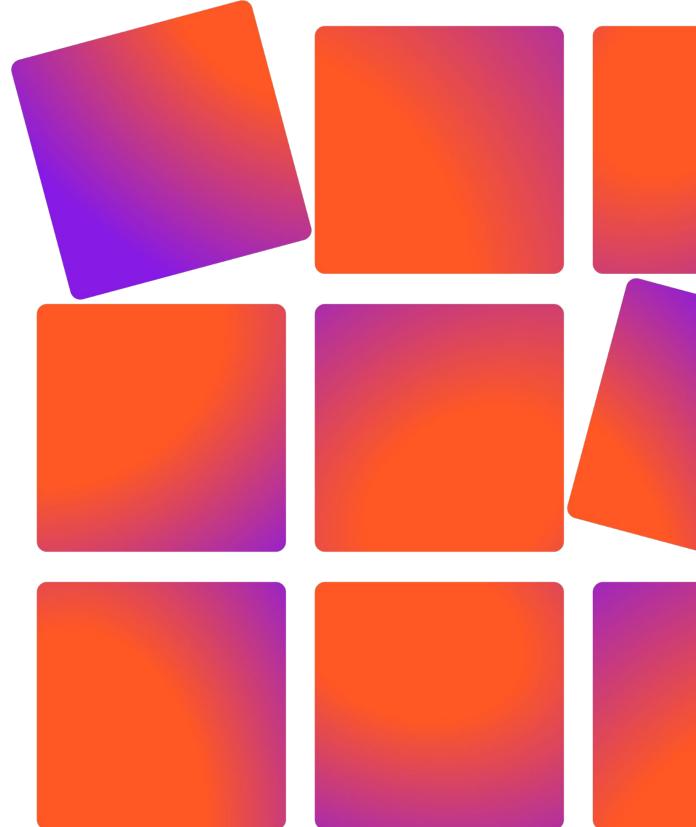
**Editar config.js para
receber a API_key e hash
da sua conta Telegram;**



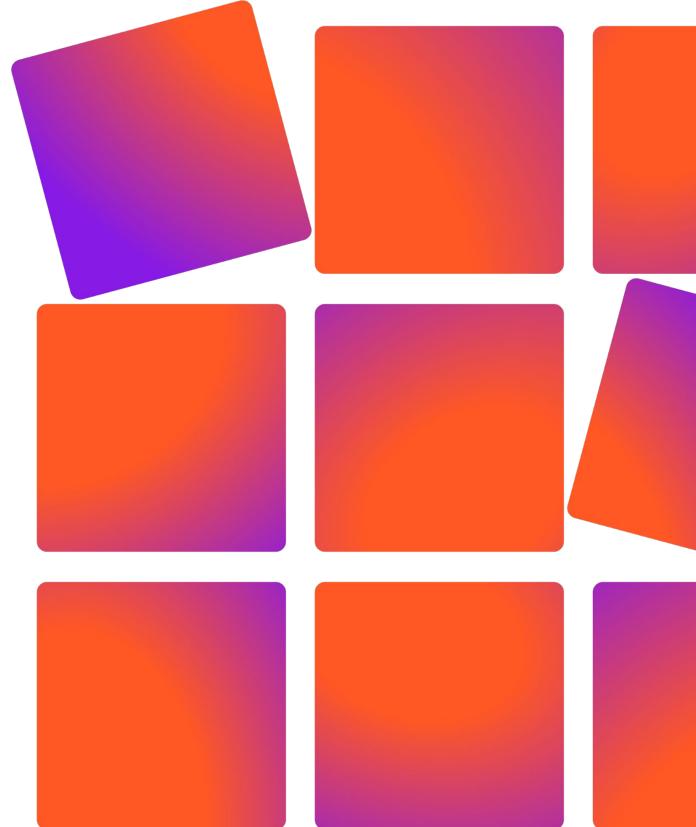
**Na pasta do projeto
execute ‘npm install’**



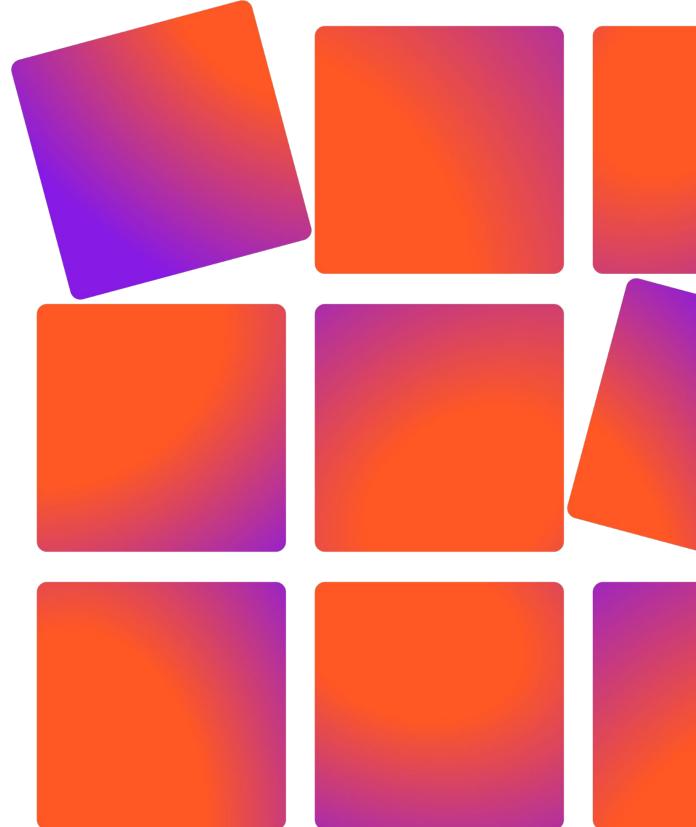
Execute o server com ‘npm start’



Autentique a sua conta Telegram no terminal

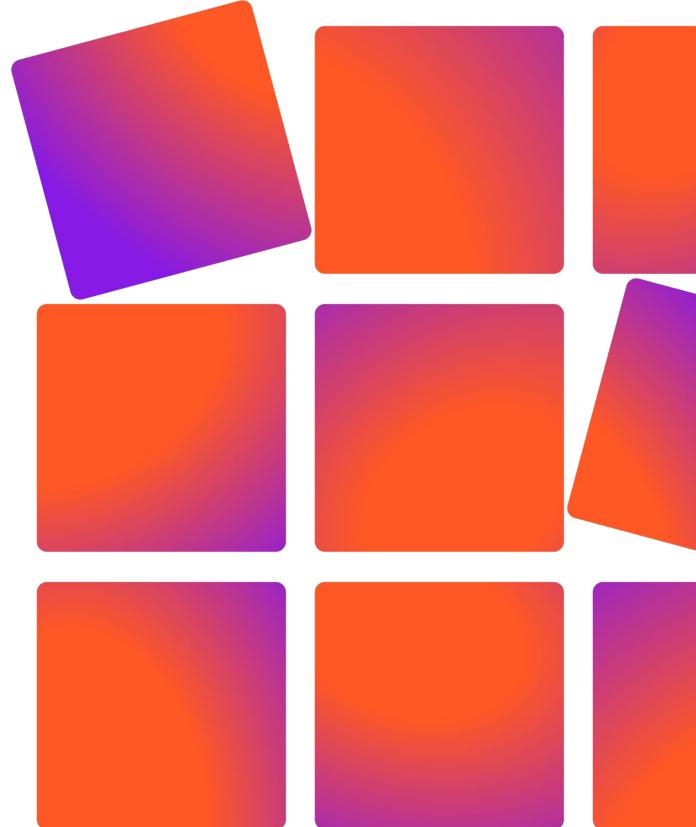


Autentique a sua conta Telegram no terminal



Have fun :)

<http://localhost:3000>



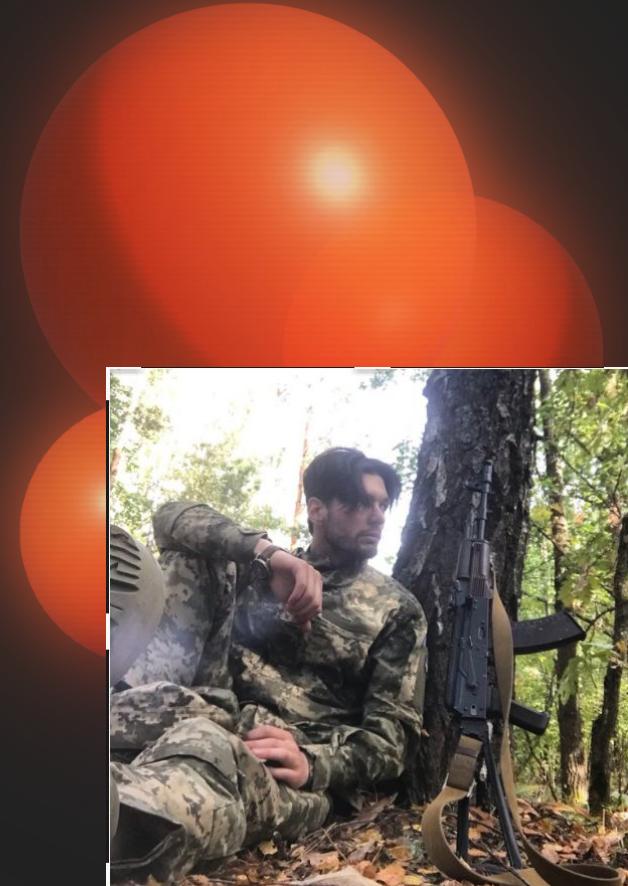
Possibilidades & Integração



Mike Rad

#38 - Distances: 13 Locations:...

Ignore



O projeto é escalável.

Algumas possibilidades são:

- Copiar os dados salvos pelo server em um mirror local;
- Otimizar tempo dos workers de forma compatível à distância analisada.
- Transparência na margem de erro;
- Com objetos locais é possível também:
 - Salvar histórico de capturas;
 - Processar profile pictures (reconhecer ou encontrar padrões com modelos neurais).

Conclusão

