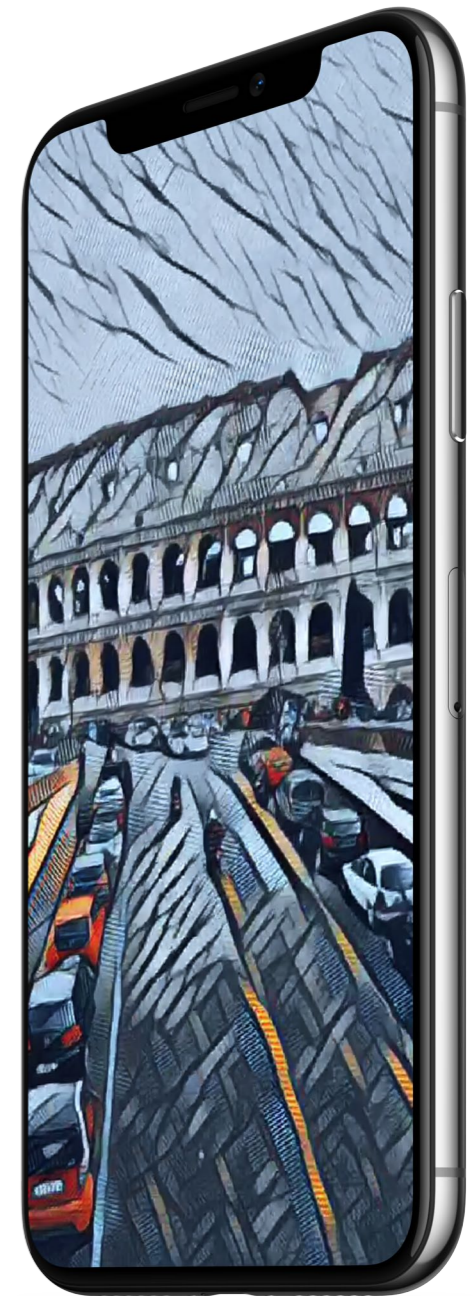


Rocket

**Accelerate
neural networks**

Intro

- We are making fast on-device AI-SDK
- It's **3-5x faster vs Caffe2/TensorFlow** in some cases
- It accelerates neural networks in speed or quality¹



We are happy to offer SDK licensing

Benchmarks



How much times
Rocket is faster vs

	Rocket	TensorFlow	Caffe2	TensorFlow	Caffe2
ResNet-50	70 ms	200 ms	370 ms	2.9x	5.3x
ResNet-101	127 ms	390 ms	670 ms	3.0x	5.3x
ResNet-152	182 ms	Memory limit	990 ms	-	5.4x
Vgg-16	210 ms	Memory limit	1075 ms	-	5.1x
Inception v1	38 ms	62 ms	210 ms	1.6x	5.5x
Inception v3	94 ms	270 ms	610 ms	2.9x	6.5x

Rocket is 3-5x faster than Caffe2/TensorFlow on some tasks

* – Processing of one image at iPhone, ms

Use cases



Face tracking

Masks, face swap,
3d models, eye tracking



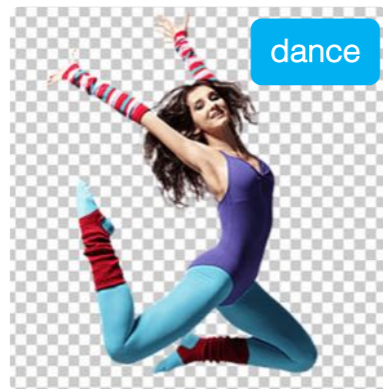
Face recognition

Identification,
authentication



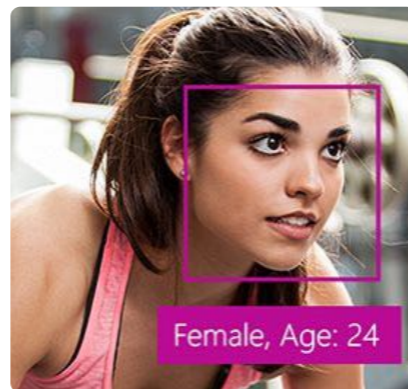
Style transfer

Video/photo filters,
attribute transfer



Segmentation

Background change,
object/scene detection



Attribute detection

Age, gender,
emotions, character



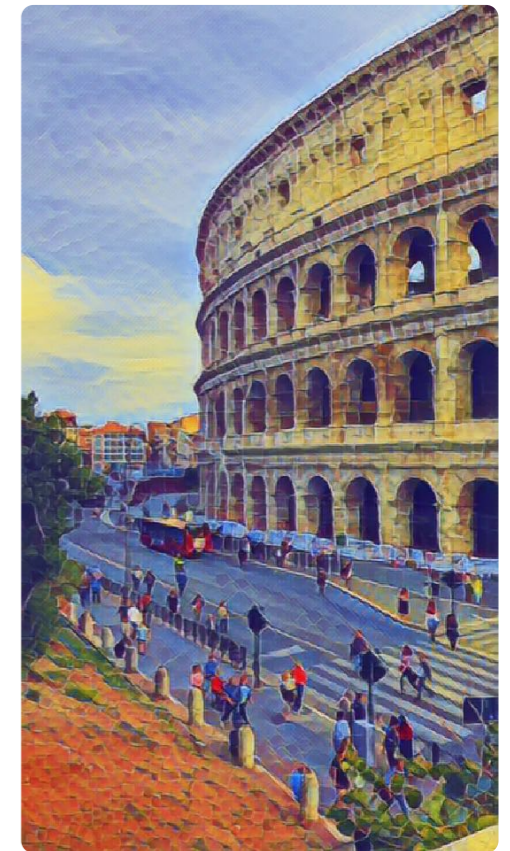
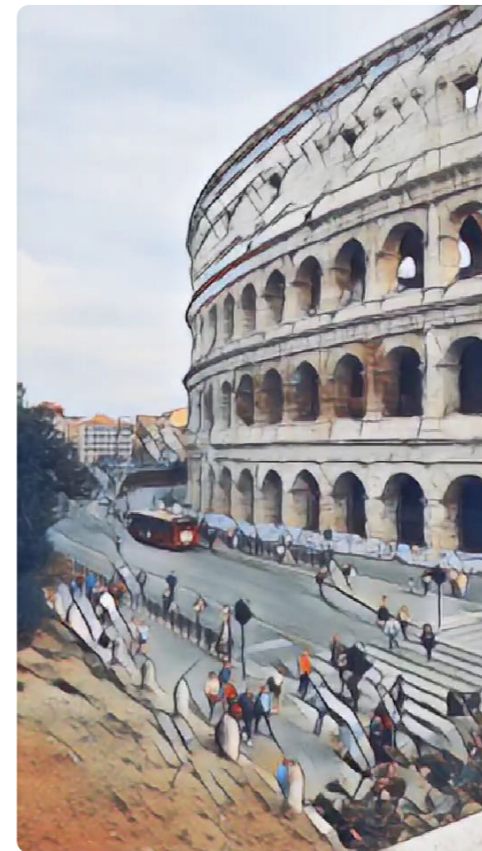
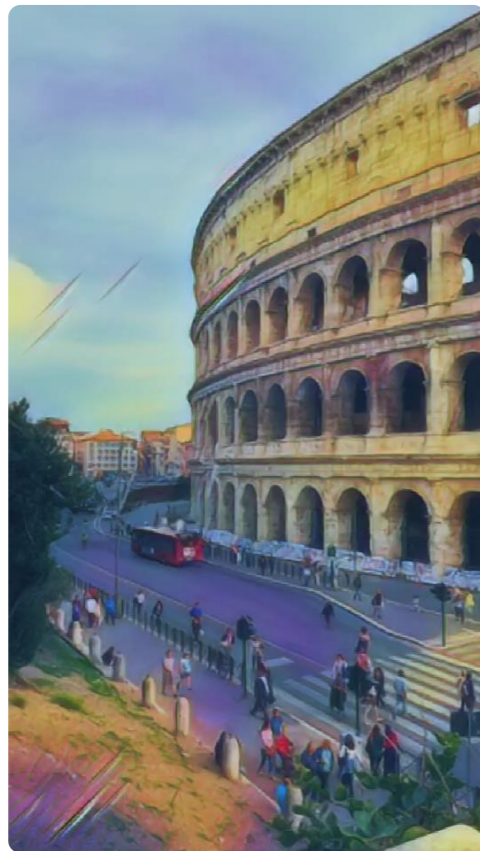
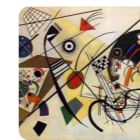
And much more...

Voice translation,
spell checking

With **Rocket** you can run it faster on smartphones

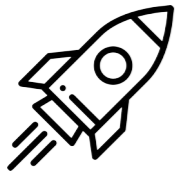
Demo app

Our demo app redraws videos in a style of great painters.
Instantly. On-device. Using AI.
It's Prisma-like video filters.



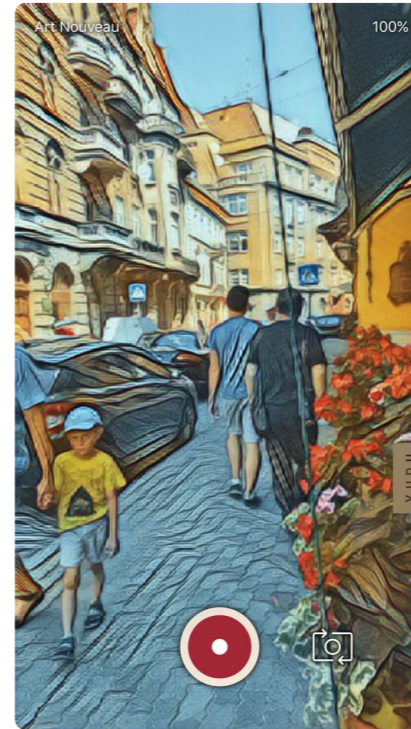
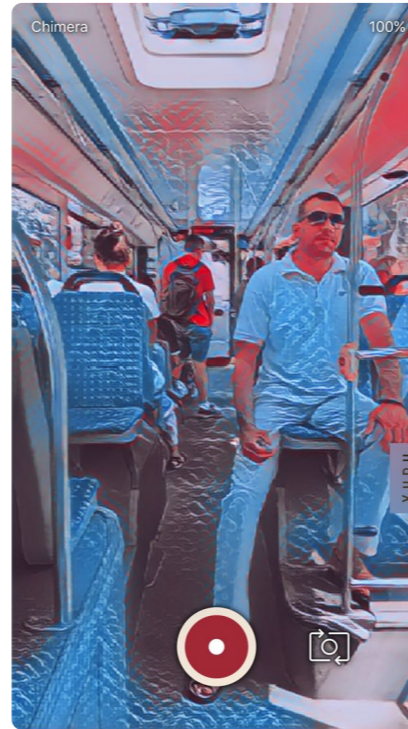
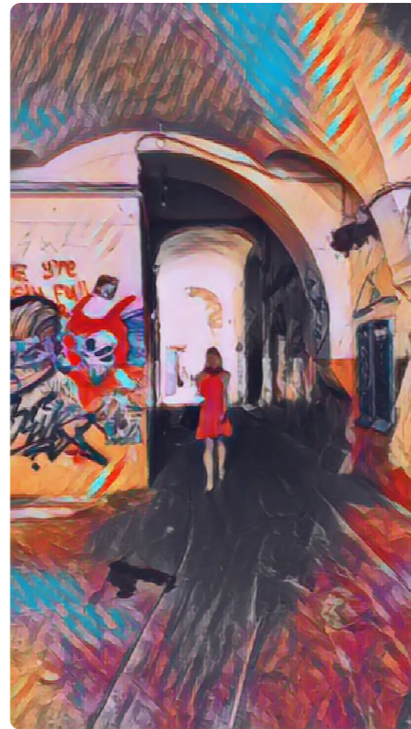
[Demo video](#)

Outstanding performance



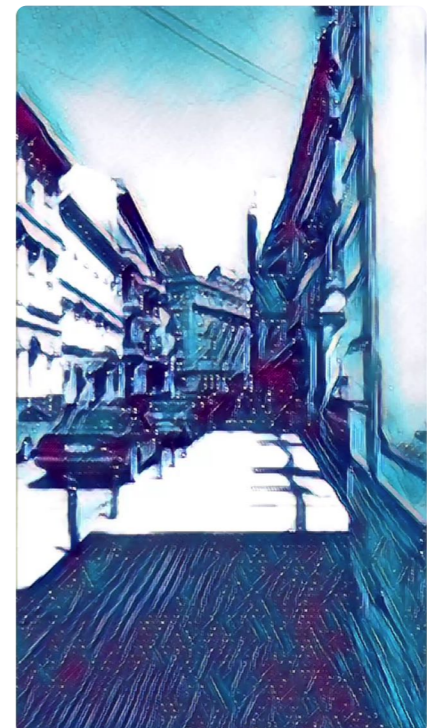
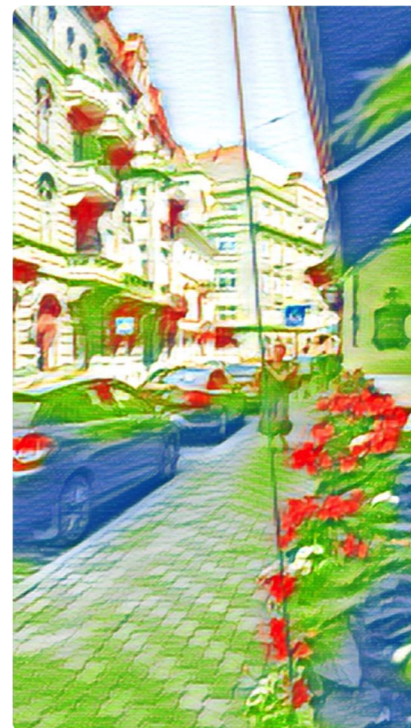
RocketAI

- 30 fps
- Amazing quality



Messenger

- 15 fps
- Low quality



Market

- **On-device AI is hot.** Face masks, face recognition and text suggestion are computed on-device. In 10 years GPUs will be 1000x faster¹.
- **Fast on-device AI is critical** for real-time video communication. 70% of traffic in 2030 will be video one. AI effects + Video Streams + Calls is the next \$100B market. Mobile cameras create a ton of data for AI which are difficult to send to the server.



Bonus

Think about releasing/acceleration of your own AI framework using RocketAI
AI is the next revolution after mobile. The more engineers will use your AI framework the stronger your AI ecosystem will be. Developers like on-device AI that's free and easy to manage unlike GPU farms.

| Licensing



We offer API
licensing



Pricing depends
on MAU/usage



Annual
contract

Just embed our library into your mobile app
Require no servers or Internet connection to work

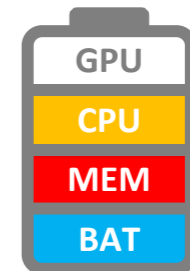
Made by super star team

TOP

Developers from
Google/Facebook¹



Winners of global
contests in AI / math /
programming



World's best
expertise in
code optimization

Case

On Sep 2015, Snap acquired a face tracking company Lookery. For years it's tech developed by similar engineers is the best-in-class. Lookery boosted Snap revenue from <\$100m to \$1B, made possible for IPO in 2017.



Contact

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