MathPix OCR

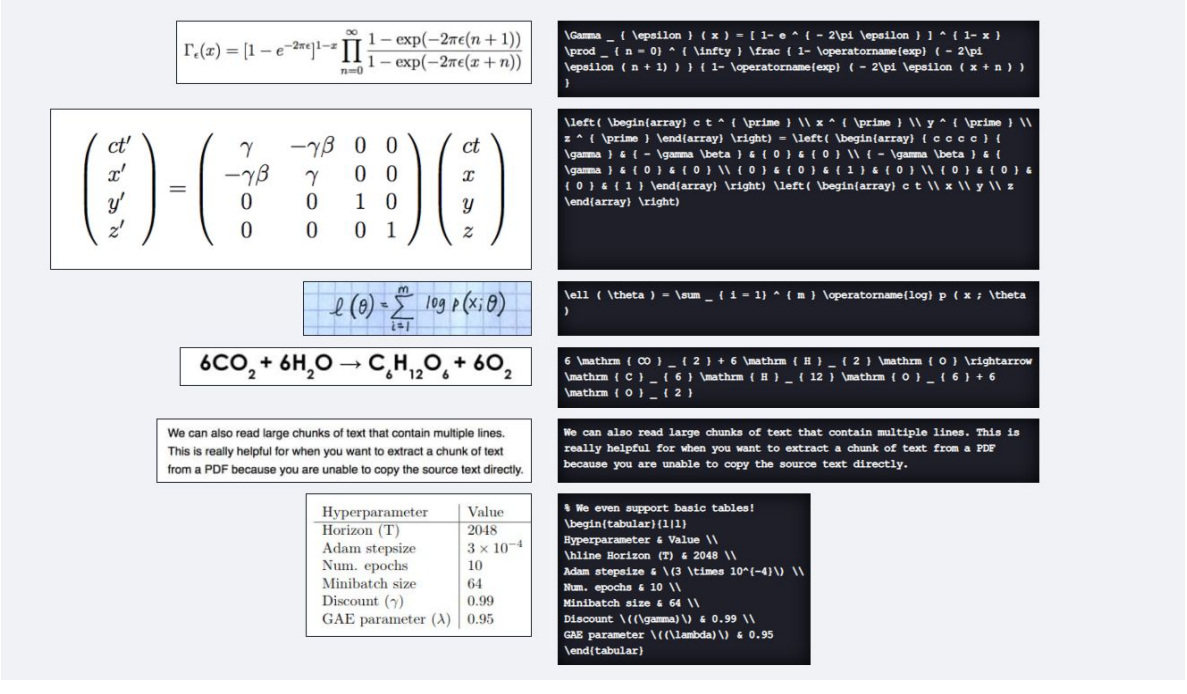
1. Snipping Tool

https://mathpix.com/

2. OCR API

https://docs.mathpix.com/?python#introduction

MathPix Snipping Tool Examples



$$\Gamma_\epsilon(x) = [1 - e^{-2\pi\epsilon}]^{1-x} \prod_{n=0}^{\infty} \frac{1 - \exp(-2\pi\epsilon(n+1))}{1 - \exp(-2\pi\epsilon(x+n))}$$

```
\Gamma _ { \epsilon } ( x ) = [ 1- e ^ { - 2\pi \epsilon } ] ^ { 1- x }
\prod _ { n = 0} ^ { \infty } \frac { 1- \operatorname{exp} ( - 2\pi
\epsilon ( n + 1) ) } { 1- \operatorname{exp} ( - 2\pi \epsilon ( x + n ) )
}
```

$$\begin{pmatrix} ct' \\ x' \\ y' \\ z' \end{pmatrix} = \begin{pmatrix} \gamma & -\gamma\beta & 0 & 0 \\ -\gamma\beta & \gamma & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} ct \\ x \\ y \\ z \end{pmatrix}$$

```
\left( \begin{array} c t ^ { \prime } \\ x ^ { \prime } \\ y ^ { \prime } \\
z ^ { \prime } \end{array} \right) = \left( \begin{array} { c c c c } {
\gamma } & { - \gamma \beta } & { 0 } & { 0 } \\ { - \gamma \beta } & {
\gamma } & { 0 } & { 0 } \\ { 0 } & { 0 } & { 1 } & { 0 } \\ { 0 } & { 0 } &
{ 0 } & { 1 } \end{array} \right) \left( \begin{array} c t \\ x \\ y \\ z
\end{array} \right)
```

$$\ell(\theta) = \sum_{i=1}^{m} \log p(x_i; \theta)$$

```
\ell ( \theta ) = \sum _ { i = 1} ^ { m } \operatorname{log} p ( x ; \theta
)
```

$$6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$$

```
6 \mathrm { CO } _ { 2 } + 6 \mathrm { H } _ { 2 } \mathrm { O } \rightarrow
\mathrm { C } _ { 6 } \mathrm { H } _ { 12 } \mathrm { O } _ { 6 } + 6
\mathrm { O } _ { 2 }
```

We can also read large chunks of text that contain multiple lines. This is really helpful for when you want to extract a chunk of text from a PDF because you are unable to copy the source text directly.

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Hyperparameter	Value
Horizon (T)	2048
Adam stepsize	3×10^{-4}
Num. epochs	10
Minibatch size	64
Discount (γ)	0.99
GAE parameter (λ)	0.95

```
% We even support basic tables!
\begin{tabular}{|l|l|}
Hyperparameter & Value \\
\hline Horizon (T) & 2048 \\
Adam stepsize & \(3 \times 10^{-4}\) \\
Num. epochs & 10 \\
Minibatch size & 64 \\
Discount \((\gamma)\) & 0.99 \\
GAE parameter \((\lambda)\) & 0.95
\end{tabular}
```

MathPix Snipping Tool - Pricing

MathPix API Pricing

- Account
- Organizations
- Snip
- OCR API
- Get API Keys
- Import Existing Account

Get API Keys

Our billing policy

First 1K requests are free per month.
$0.004 per request for 1-100K API calls.
$0.002 per request for 100K-300K API calls
$0.001 per request for 300K-infinity API calls
Billed monthly (1st of every month)

Our values

High accuracy
Low latency
Low cost

MathPix OCR API Python Docs - Usage of JSON (requests and responses)

https://docs.mathpix.com/?python#introduction

GitHub repo

```
git clone git@github.com:Mathpix/api-examples.git
cd api-examples/images
```

Request Headers:

```
{
  "content-type": "application/json",
  "app_id": "YOUR_APP_ID",
  "app_key": "YOUR_APP_KEY"
}
```

Request JSON:

```
{
    "src": "https://mathpix.com/examples/limit.jpg",
    "formats": ["text", "data", "html"],
    "data_options": {
        "include_asciimath": true,
        "include_latex": true
    }
}
```

MathPix GitHub Repo

https://github.com/Mathpix/api-examples

Repo README:

README.md

API Examples

Docs

Some API examples for the image to Latex API that powers mathpix.com as well as others. The general docs for the API can be found here: http://docs.mathpix.com

The purpose of this repo is to provide illustrative examples for various platforms. Please use https://github.com/mathpix/ios-sample for a sample iOS app and use https://github.com/mathpix/android-sample for an Android one.

Note: for production use, please request an API key from support@mathpix.com.