**■ README.md** 

# version 1.0.0b2

# **Description**

Mapmaker is a python module which provides functionality to generate neccessary images used in SKAT webportal for ejendomsvurderinger.

Mapmaker can write image files to local filesystem or AWS s3 buckets

The module incldues a CLI tool and can be used as a AWS Lambda function.

# Installation

Install locally with

pip install

# **Usage**

## **Terminal**

## **AWS lambda**

## Create package with dependencies

```
./make_lambda_package.sh
```

localhost:6419

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### Deploy

```
aws lambda create-function --environment Variables="{LOGLEVEL=INFO,BUCKET=pgvdata}" --timeout 900 --function-name pgvm
```

LOGLEVEL valid values: ERROR, INFO, DEBUG, WARNING

Note: Role needs permission to write to s3 bucket

#### **Update**

```
aws lambda update-function-code --function-name pgvmaps --zip-file fileb://function.zip
```

Invoke

with vurderingsejendom 387068

```
./invoke.sh
```

with vurderingsejendom 480470 (contain incomplete json for distance to coast)

```
invoke_incomplete_input.sh
```

### with AWS SQS

```
aws lambda create-function --environment Variables="{LOGLEVEL=INFO,BUCKET=pgvdata}" --timeout 45 --function-name pgvma
```

NOTE: Different handler name "handler.lambda\_handler\_sqs"

### Attach SQS queue to Lambda function (Event source mapping)

#aws lambda create-event-source-mapping --function-name ProcessSQSRecord --batch-size 10 --event-source SQS-queue-arn

```
aws lambda create-event-source-mapping --function-name pgvmaps_sqs --batch-size 10 --event-sourcearn:aws:sqs:eu-central
```

Note: SQS message queue needs to have Default Visibility Timeout set to longer or equal to Lambda function timeout for the whole batch (lamdaba timeout\*batch size)

Output:

```
{
   "UUID": "faa0159d-e7ea-47b5-abe1-52e513d35dc5",
   "StateTransitionReason": "USER_INITIATED",
   "LastModified": 1559552543.917,
   "BatchSize": 10,
   "State": "Creating",
   "FunctionArn": "arn:aws:lambda:eu-central-1:478520491926:function:pgvmaps_sqs",
   "EventSourceArn": "arn:aws:sqs:eu-central-1:478520491926:pgvdata"
}
```

List event source mappings

```
aws lambda list-event-source-mappings --function-name pgvmaps_sqs --event-source arn:aws:sqs:eu-central-1:47852049192
```

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```
Output:
```

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## Config file

```
[aerial-hero]
enabled = True
baseurl= https://services.kortforsyningen.dk/service?SERVICENAME=orto_foraar&TOKEN=da0acd1a82cd4424b618118f030c4131
layers = orto_foraar
format = jpg
destination = /home/mbj/Documents/pdg
dirname = aerial-hero
bucket = pgvdata
sizes = [440,300,1024,400,1440,550,1920,550]
res = 0.4
padding = 0.1
has_ref_ejendomme = False
has_cap_infrastructure = False
[special-reference-properties]
enabled = True
baseurl= https://services.kortforsyningen.dk/service?SERVICENAME=topo_skaermkort_pgv&TOKEN=da0acd1a82cd4424b618118f03
layers = dtk_skaermkort_pgv
format = png
destination = /home/mbj/Documents/pdg
dirname = special-reference-properties
bucket = pgvdata
sizes = [440,300,1024,400,1440,550,1920,550]
\#sizes = [440,300]
res = 0.4
padding = 0.1
has_ref_ejendomme = True
has_cap_infrastructure = False
[special-distance-to-nature-thumb]
enabled = True
baseurl https://services.kortforsyningen.dk/service?SERVICENAME=topo skaermkort pgv&TOKEN=da0acd1a82cd4424b618118f03
layers = dtk_skaermkort_pgv
format = png
destination = /home/mbj/Documents/pdg
bucket = pgvdata
dirname = special-distance-to-nature-thumb
sizes = [300, 150]
res = 0.4F
padding =F
has_ref_eF
has_cap_iF
[special-distance-to-infrastructure-thumb]
```

localhost:6419

```
enabled = True
baseurl= https://services.kortforsyningen.dk/service?SERVICENAME=topo_skaermkort_pgv&TOKEN=da0acd1a82cd4424b618118f030
layers = dtk_skaermkort_pgv
format = png
destination = /home/mbj/Documents/pdg
dirname = special-distance-to-infrastructure-thumb
bucket = pgvdata
sizes = [300,150]
res = 0.4
padding = 0.1
has_ref_ejendomme = False
has_cap_infrastructure = True
```

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