



Running CAW with AWS Batch

Hopefully my last talk about CAW ever...

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<https://maxulysse.github.io/>

2018-01-31

SciLifeLab NGI / BarnTumörBanken

SciLifeLab

NATIONAL ATCA GENOMICS INFRASTRUCTURE

NBIS
NATIONAL BIOINFORMATICS INFRASTRUCTURE SWEDEN

Karolinska Institutet

KTH
KONSTALLEG
ROYAL INSTITUTE OF TECHNOLOGY

Stockholms
universitet

UPPSALA
UNIVERSITET



Definition

A screenshot of a web browser window displaying Google search results for the query "CAW". The browser interface includes a back/forward button, a refresh button, a home icon, a search bar with the URL "https://www.google.se/search", and a search button. Below the search bar are tabs for "All", "Images", "Videos", "News", "Maps", and "More", with "All" being the selected tab. To the right are "Settings" and "Tools" buttons. A vertical scroll bar is visible on the right side of the page.

Google

CAW

All Images Videos News Maps More Settings Tools

About 64 400 000 results (0,55 seconds)

Dictionary

caw

caw
/kɔ:/ ⓘ

noun

1. the harsh cry of a rook, crow, or similar bird.

verb

1. utter a caw.
"rooks cawed in the dark trees"

Translations, word origin, and more definitions

Feedback

What is CAW?



🌐 <http://opensource.scilifelab.se/projects/caw/>

- Nextflow pipeline

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- Nextflow pipeline
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🌐 <http://opensource.scilifelab.se/projects/caw/>

- Nextflow pipeline
- Developed at NGI
- In collaboration with NBIS
- Support of The Swedish Pediatric Tumor Biobank



What does CAW do?



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- Heterogeneity, ploidy and CNVs
 - ASCAT
- Containers (portable, reproducible)
 - Docker or Singularity

Where to use CAW?

- Any POSIX compatible system

Where to use CAW?



- Rackham

Where to use CAW?



- Rackham
- Bianca

Where to use CAW?



- Rackham
- Bianca
- Irma

Where to use CAW?



- Rackham
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Where to use CAW?



- AWS Batch

Where to use CAW?



CAW with AWS Batch



CAW with AWS Batch



- A single command line

```
nextflow run main.nf -profile awsbatch -w s3://caw-test-results/work \
--genome smallGRCh37 --sample s3://caw-test-data/tsv/tiny-s3.tsv \
--outDir s3://caw-test-results/Results
```

CAW with AWS Batch



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nextflow run main.nf -profile awsbatch -w s3://caw-test-results/work \
--genome smallGRCh37 --sample s3://caw-test-data/tsv/tiny-s3.tsv \
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```

🌐 <https://maxulysse.github.io/2017/11/16/Running-CAW-with-AWS-Batch/>

Going further



- Run a full size test sample

Going further



- Run a full size test sample
- Gather reports

Going further



- Run a full size test sample
- Gather reports
- Get a pricing

Going further



- Run a full size test sample
- Gather reports
- Get a pricing
- Wait for Amazon to finally come to Stockholm

The List of People Involved

Sebastian DiLorenzo	Markus Mayrhofer
Jesper Eisfeldt	Monica Nistèr
Phil Ewels	Björn Nystedt
Maxime Garcia	Pall Olason
Szilveszter Juhos	Markus Ringnér
Max Käller	Pelin Sahlén
Malin Larsson	Johanna Sandgren
Marcel Martin	Teresita Díaz De Ståhl

Where to find us?

- We are on the SciLifeLab Slack 
#cancer-pipeline

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- We have a gitter channel
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- Our code is hosted on Github 
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Any questions?

