

# Latest news about Sarek



Formerly known as CAW

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SciLifeLab NGI / BarnTumörBanken





  
NATIONAL BIOINFORMATICS  
INFRASTRUCTURE SWEDEN

  
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Institutet



  
Stockholms  
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UNIVERSITET



# CAW

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", a download button, and a search bar with the word "Search". 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 main content area.

The main content area shows the Google search results for "CAW". It includes a "Dictionary" section with a search bar containing "caw" and a search button. The word "caw" is defined as a noun with the phonetic transcription /kɔ:/ and a verb. The noun definition is "the harsh cry of a rook, crow, or similar bird." and the verb definition is "utter a caw." with the example sentence "rooks cawed in the dark trees". A "Translations, word origin, and more definitions" link is also present.

What happens when you look for CAW

# Sarek



James Frain as Sarek, "Star Trek: Discovery"

# The real inspiration



Mount Skierfe in the Sarek National Park in Summer

# How it should look today



Mount Skierfe in Winter

# What is Sarek?

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Sarek



<http://opensource.scilifelab.se/projects/sarek/>

# What is Sarek?



Sarek



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- Nextflow pipeline

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



# What does Sarek do?

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# What does Sarek do?

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Sarek



Sarek  
Germline

# What does Sarek do?

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Sarek



Sarek  
Germline



Sarek  
Somatic

# What does Sarek do?

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## What does Sarek do?



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- Containers (portable, reproducible)
  - Docker or Singularity

## Where to use Sarek?

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- Any POSIX compatible system

# Where to use Sarek?



- Rackham

# Where to use Sarek?



- Rackham
- Bianca

# Where to use Sarek?



- Rackham
- Bianca
- Irma

## Where to use Sarek?



- AWS Batch

Where to use Sarek?



# Sarek with AWS Batch

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# Sarek 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
```

# Sarek with AWS Batch



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```

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

## Going further

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- Run a full size test sample

# Going further

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- Run a full size test sample
- Gather reports

## Going further

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

# Going further

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

# The List of People Involved

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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 are on the SciLifeLab Slack   
`#cancer-pipeline`
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- Our code is hosted on Github   
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# Any questions?

