

# Machine Learning tanpa koding dengan ORANGE

Cahyo Darujati

PT. Radnet Digital Indonesia  
<https://www.radnet-digital.id/>



orange

Platinum sponsor :



Gold sponsor :



Silver sponsor :



Custom sponsor :



Surabaya, August 21, 2021

# About Me



**Cahyo Darujati**

PT. Radnet Digital Indonesia



@cahyodarujati



Cahyo Darujati



cahyod@radnet-digital.id



[Cybersecurity.or.id](https://Cybersecurity.or.id)



Foundation sponsor:



Open Infrastructure  
FOUNDATION



INDONESIA  
OpenInfra Days

Hosted by:



OpenStack Indonesia  
Indonesia OpenStack Foundation Community  
[www.openstack.id](https://www.openstack.id)

# Agenda

- Introduction
- Let's Do
- Conclusion
- Q&A

# Introduction #1

ORANGE Data Mining for Machine Learning

# ORANGE



[Screenshots](#) [Workflows](#) [Download](#) [Blog](#) [Docs](#) [Workshops](#)

## Data Mining Fruitful and Fun

Open source machine learning and data visualization.

Build data analysis workflows visually, with a large, diverse toolbox.

[Download Orange](#)



Website Orange Data Mining  
<https://orangedatamining.com/>



INDONESIA  
OpenInfra Days

# Download

[Screenshots](#)[Workflows](#)[Download](#)[Blog](#)[Docs](#)[Workshops](#)

Windows



macOS



Linux / Source

Download the latest version for Windows

[Download Orange 3.29.3](#)

Standalone installer (default)

[Orange3-3.29.3-Miniconda-x86\\_64.exe \(64 bit\)](#)

Can be used without administrative privileges.

Portable Orange

[Orange3-3.29.3.zip](#)

# WorkFlow Example



Workflow Example  
<https://orangedatamining.com/workflows/>





# Docs orange

[Screenshots](#) [Workflows](#) [Download](#) [Blog](#) [Docs](#) [Workshops](#)



## Visual Programming

[Getting started](#)  
[YouTube tutorials](#)  
[Loading your data](#)  
[Widget catalog](#)



## Development

[Widget development](#)  
[Example addon](#)



## Python Library

[Tutorial](#)  
[Reference](#)  
[Orange 2.7 documentation](#)

## Support

For a list of frequently asked questions, see [FAQ](#). Also, feel free to reach out to us in our [Discord chatroom](#).

Documentations  
<https://orangedatamining.com/docs/>

# Let's Do

Amati, Tiru & Modifikasi.

# Amati #1 Image Analytics: Clustering



calf



cat



chick



cow



dog



duck



duckling



foal



goat



goose



hen



horse



kid



lamb



ox



rabbit



rooster



sheep



turkey

Test Image:

<https://github.com/ajdapretnar/datasets/blob/master/images/domestic-animals.zip>

Tutorial:

<https://orangedatamining.com/blog/2017/04/03/image-analytics-clustering/>

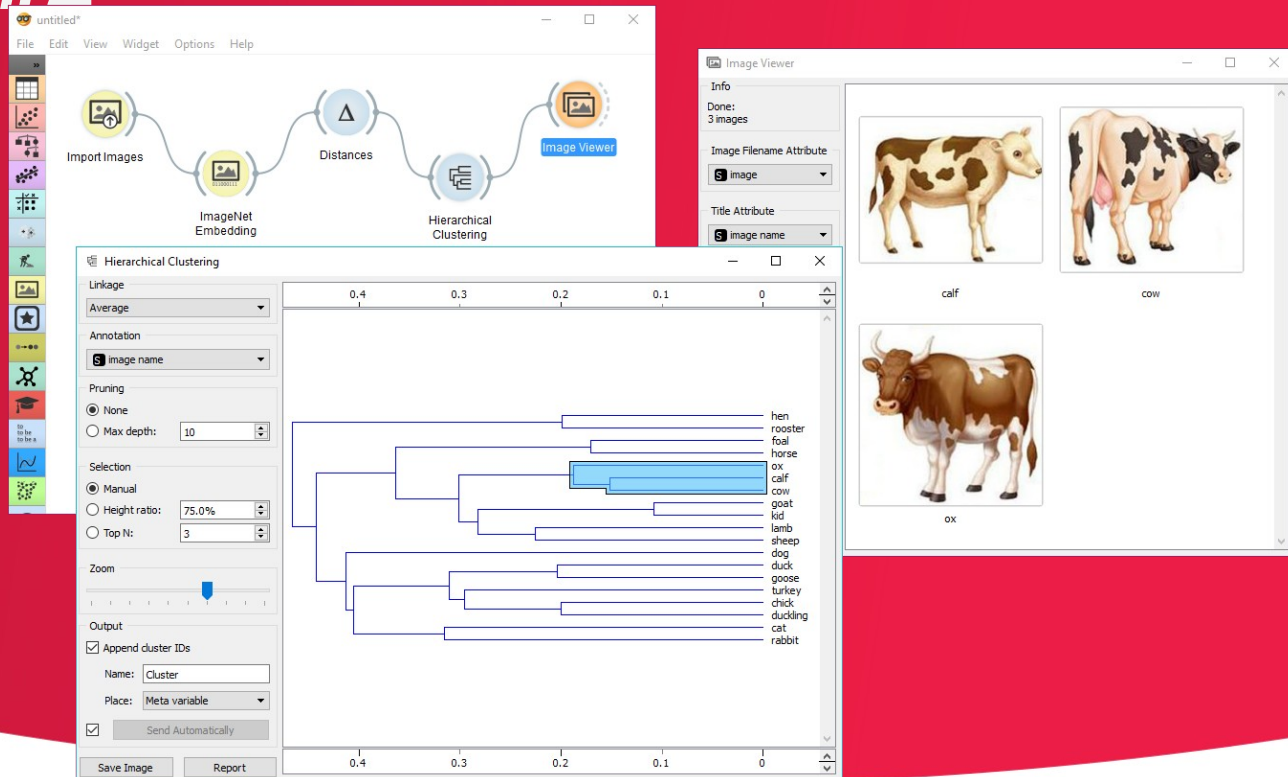
Video:

<https://www.youtube.com/watch?v=lu8g2Twjn9U>



INDONESIA  
OpenInfra Days

# Tiru #2





# Modifikasi #3



Benedict  
Cumberbatch



Bradley Cooper



Brie Larson



Chadwick  
Boseman



Chris Evans



Chris Hemsworth



Chris Pratt



Elizabeth Olsen



Josh Brolin



Karen Gillan 2



Karen Gillan



Mark Ruffalo



Paul Rudd 2



Paul Rudd



Robert Downey



Scarlett  
Johansson



Sebastian Stan



Tom Hiddleston



Zoe Saldana

**Material available  
at: [s.id/jagoml](https://s.id/jagoml)**

# Conclusion



Selamat telah mencapai sejauh ini! Mari kita rekap apa yang telah kita pelajari hari ini.

1. Memulai dengan memasang add-on analitik gambar yang memberi beberapa widget baru.
2. Memuat gambar melalui widget Impor Gambar. dengan mengarahkannya ke direktori pilihan.
3. Memeriksa gambar melalui widget Penampil Gambar.
4. Menggunakan widget Image Embedding untuk mengonversi gambar menjadi vektor angka. Ada berbagai jenis Embedder yang dapat digunakan.
5. Menggunakan widget Distances dan widget Hierarchical Clustering untuk menampilkan dendogram cluster.
6. Mengujinya dengan gambar sampel.





# Q&A

Discussion.



## Hosted by:



### OpenStack Indonesia

Indonesia OpenStack Foundation Community  
[www.openstack.id](http://www.openstack.id)

## Community Partners:



# Terima Kasih

Do you have any questions?

[cahyod@radnet-digital.id](mailto:cahyod@radnet-digital.id)

WhatsApp: +62 8123594969

PT. RADNET DIGITAL INDONESIA

---

Platinum sponsor :



Gold sponsor :



Silver sponsor :

Custom sponsor :

