

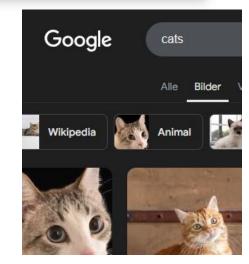


Sander og Mathias

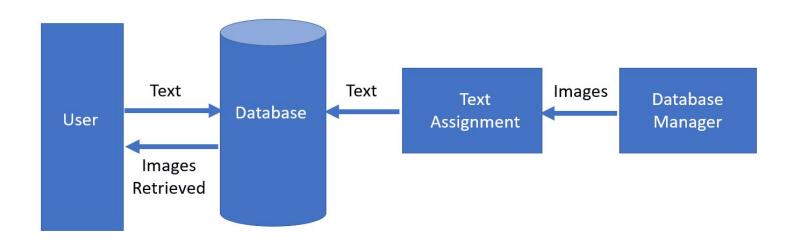
Intro



Search Go	ogle with	an image instead of text.	Try dragging an image h	ere.
Paste image URL		Upload an image 📳		



Text-Based Image Retrieval



CBIR

(Content-Based Image Retrieval)

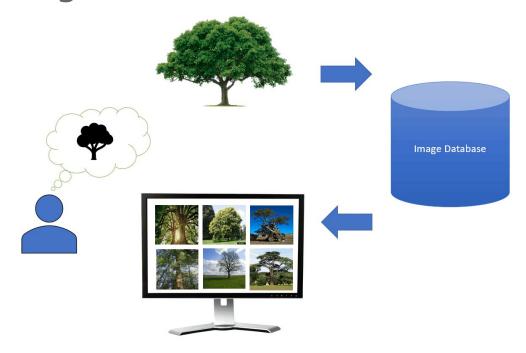


Image features - Local vs global features

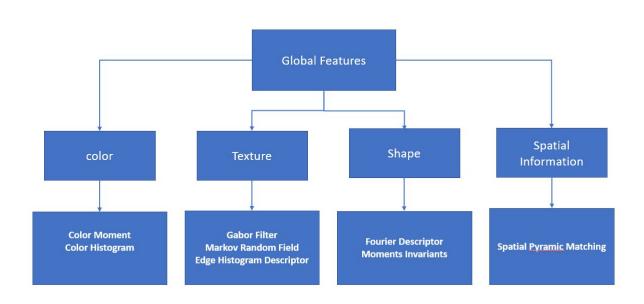
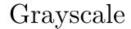


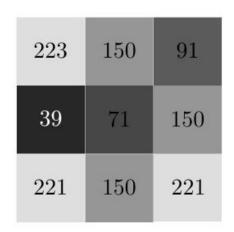
Image features - local vs global features

Describes visual patterns or structures identifiable in small groups of pixels.

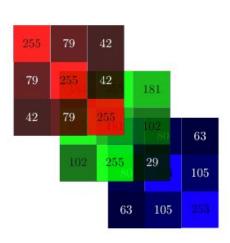
Bag-of-VisualWords:

Edges, points, image patches

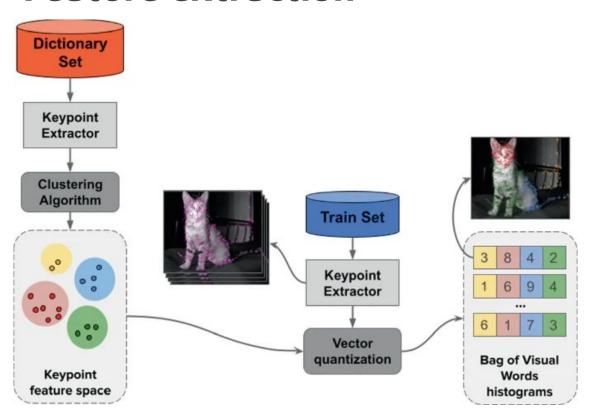




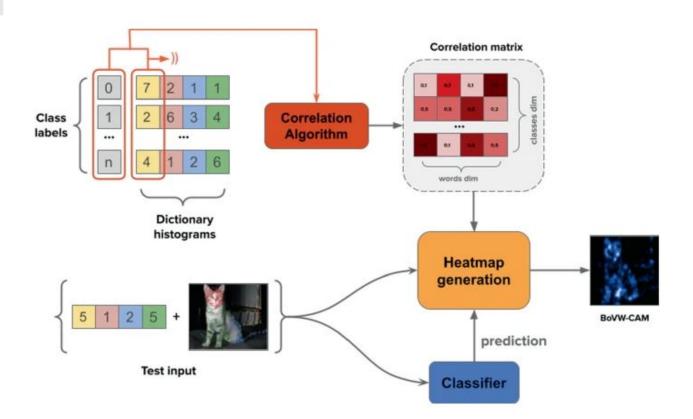
RGB



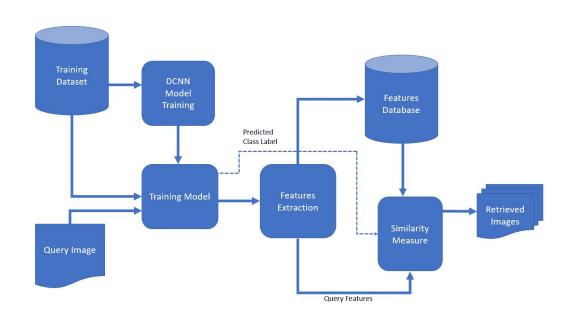
Feature extraction



Feature extraction



Deep Neural Networks

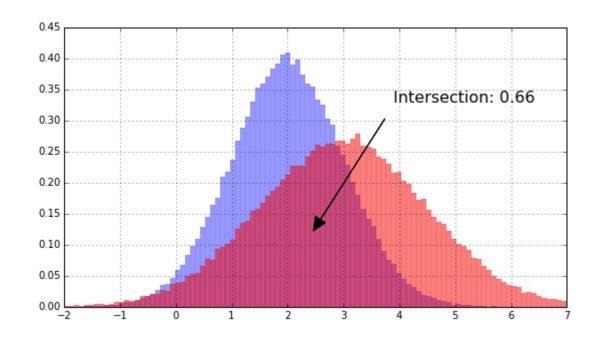


Evaluation

union av histogram

eller

CosineDistance



$$CosineDistance(X, Y) = \frac{\langle X, Y \rangle}{|X| \times |Y|}$$

Takk for oss!

References

- https://www.baeldung.com/cs/cbir-tbi r
- https://www.baeldung.com/cs/imagehistograms
- https://www.baeldung.com/cs/scale-i nvariant-feature-transform
- https://link.springer.com/chapter/10.1
 007/978-3-031-21689-3_4