

# Summary

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# Embedding learning

- Learns with ever expanding label set
- Used in many large scale DL applications

# Example: Face recognition

- Fixed label set



Obama



Obama



Clinton

- Face detection

- Expanding label set

- Face re-identification



same

different

# Example: Image retrieval and visual search

- No fixed label set
- Sometimes: No labels at all
- Comparisons only

query



results

