



Nasjonalt ID-senter

Face IT

Frøy Løvåsdal

Face IT

- Pilotprosjektet Face IT
 - Formål
 - Gjennomføring
 - Funn
 - Anbefalinger

Forskjell?

- Ansiktsgjenkjenning
AUTOMATISERT
- Ansiktssammenligning
UTFØRES AV MENNESKER

Utlendingsdatabasen (UDB)

- Bilder fra søknader om:
 - Visum
 - Oppholdstillatelse
 - Beskyttelse
 - Reisedokumenter

Utlendingsdatabasen (UDB)

- Bilder tatt av:
 - Utenriksstasjonene
 - Politidistriktene
 - Politiets Utlendingsenhet

Face IT - Formål

- Bildekvalitet god nok?
- God saksbehandlerstøtte?
- Øke kvalitet og effektivitet
- Redusere eller eliminere feil– og aliasregistreringer i utlendingsdatabasen.

Gjennomføring

- UDIs lokaler
- Forskere fra høgskolen i Gjøvik
- Bistandsavtale, forskere klarert, taushetserklæring, IKT-instruks

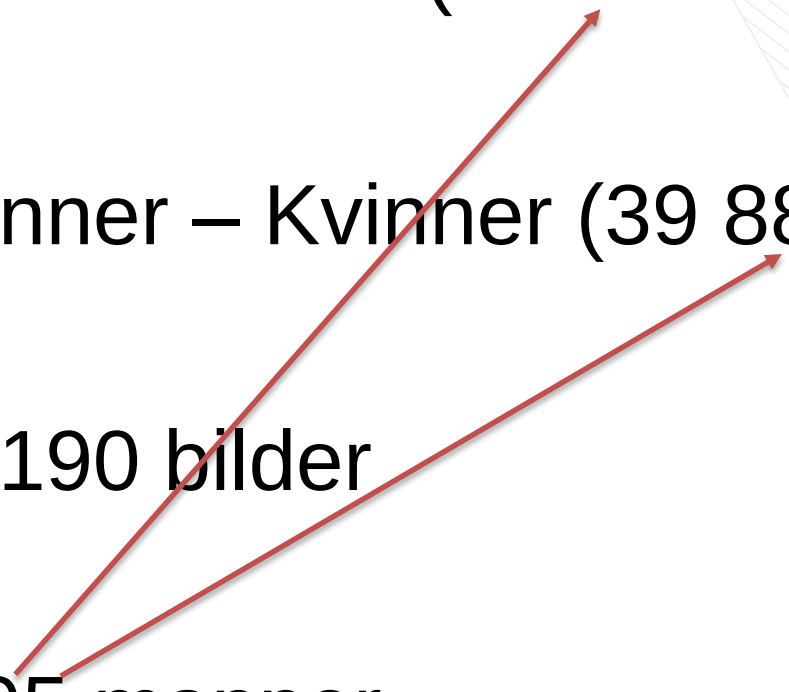
Gjennomføring

- Ikke direkte tilgang til UDB
- Bilder, fordelt på kjønn
- Ingen nett-tilgang
- Ingen data ut av UDIs lokaler

Gjennomføring

- Kvalitetssjekk av bildene
- Ansiktsgjenkjenning på utvalg fra UDB
- ID-land, mange søknader
- Afrikas Horn, tilgrensende land, Midtøsten

Tall

- 248 924 bilder / 89 642 mapper
 - Menn – Menn (49 758 mapper)
 - Kvinner – Kvinner (39 884 mapper)
 - 16 190 bilder
 - 5695 mapper
- 
- A diagram consisting of two red arrows. One arrow originates from the '16 190 bilder' item and points to the 'Menn – Menn (49 758 mapper)' item. The other arrow originates from the '5695 mapper' item and points to the 'Kvinner – Kvinner (39 884 mapper)' item. This indicates that the 16,190 images are categorized by gender into 49,758 male and 39,884 female mappings, and that the 5,695 mappings are further categorized into 49,758 male and 39,884 female mappings.

Funn

- En del feilregistreringer
- Noen mulige impostere
- Behov for bedre bildekvalitet

Funn - Bildekvalitet

- 7244 bilder (2,91%) - relativt god kvalitet
- 9981 bilder (4%) - veldig lav kvalitet
- 3245 bilder (1,3%) – Ikke brukbare
- 245 679 bilder (98,7%) god nok kvalitet

Hva skyldes den lave kvaliteten?

- Veldig lav oppløsning
- Kraftig kompresjon
- Avvik fra standarder

Noen eksempler fra utvalget som feilet

NB: Ingen bilder fra UDB

The background is a solid blue color. On the right side, there are several overlapping geometric shapes, primarily triangles, filled with a pattern of thin, light blue lines. These lines are oriented in various directions, creating a sense of depth and movement. The shapes overlap each other, with some appearing in front of others.

Lysforhold

Lys fra siden



Lys ovenfra



Lys nedenfra



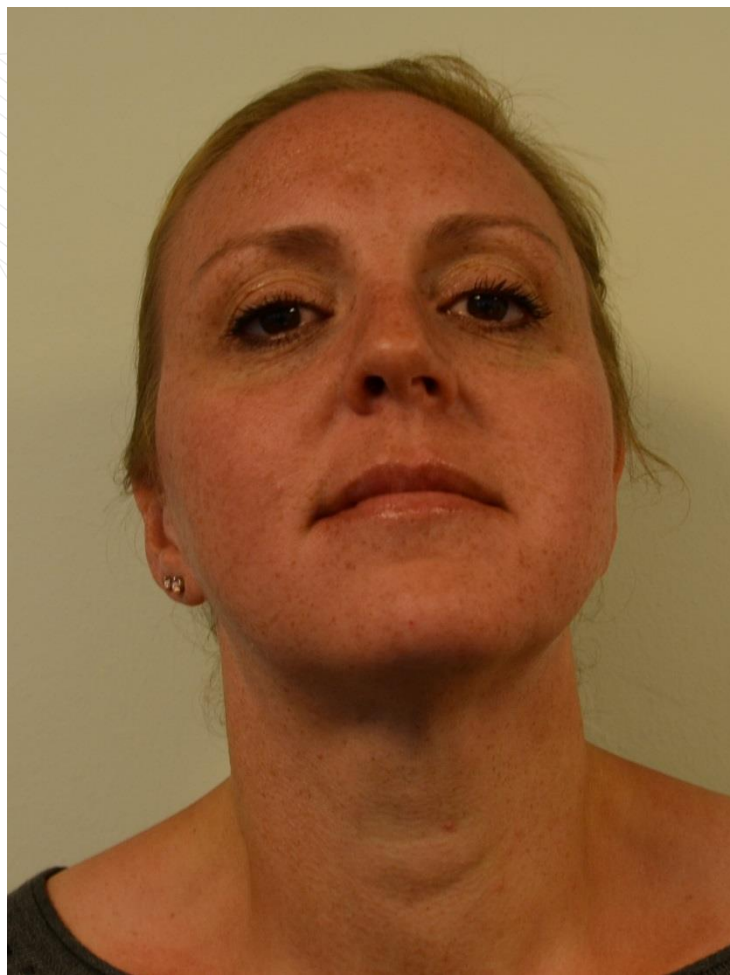
Sterkt lys bakfra



Hodebevegelser

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Bevegelser i vertikal akse («pitch»)



Bevegelser i horisontal akse («Yaw»)



Hodet bikker til siden («Roll»)



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Blikket

Søker ser til siden



Søker ser opp eller ned



Ansiktsuttrykk

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Ansiktsuttrykk



Ansiktsuttrykk



Ansiktsuttrykk



Ansiktsuttrykk



The background is a solid blue color. On the right side, there are several overlapping geometric shapes, primarily triangles, filled with a pattern of thin, light blue lines. These lines are oriented in various directions, creating a sense of depth and movement. The word "Briller" is written in a bold, white, sans-serif font, positioned in the center-left area of the image, overlapping the blue background and the geometric patterns.

Briller

Briller



Avstand til kamera

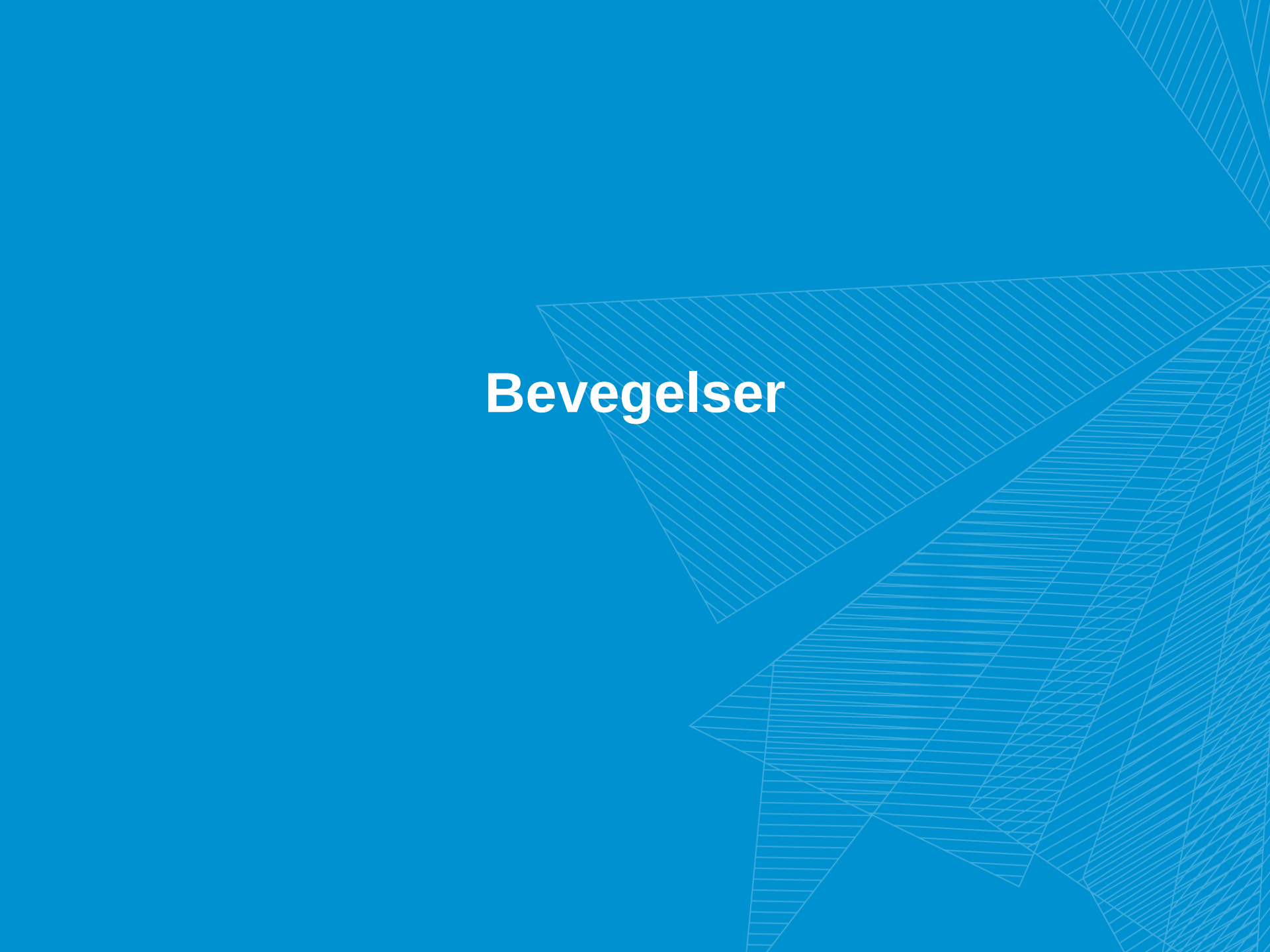
For kort



For lang



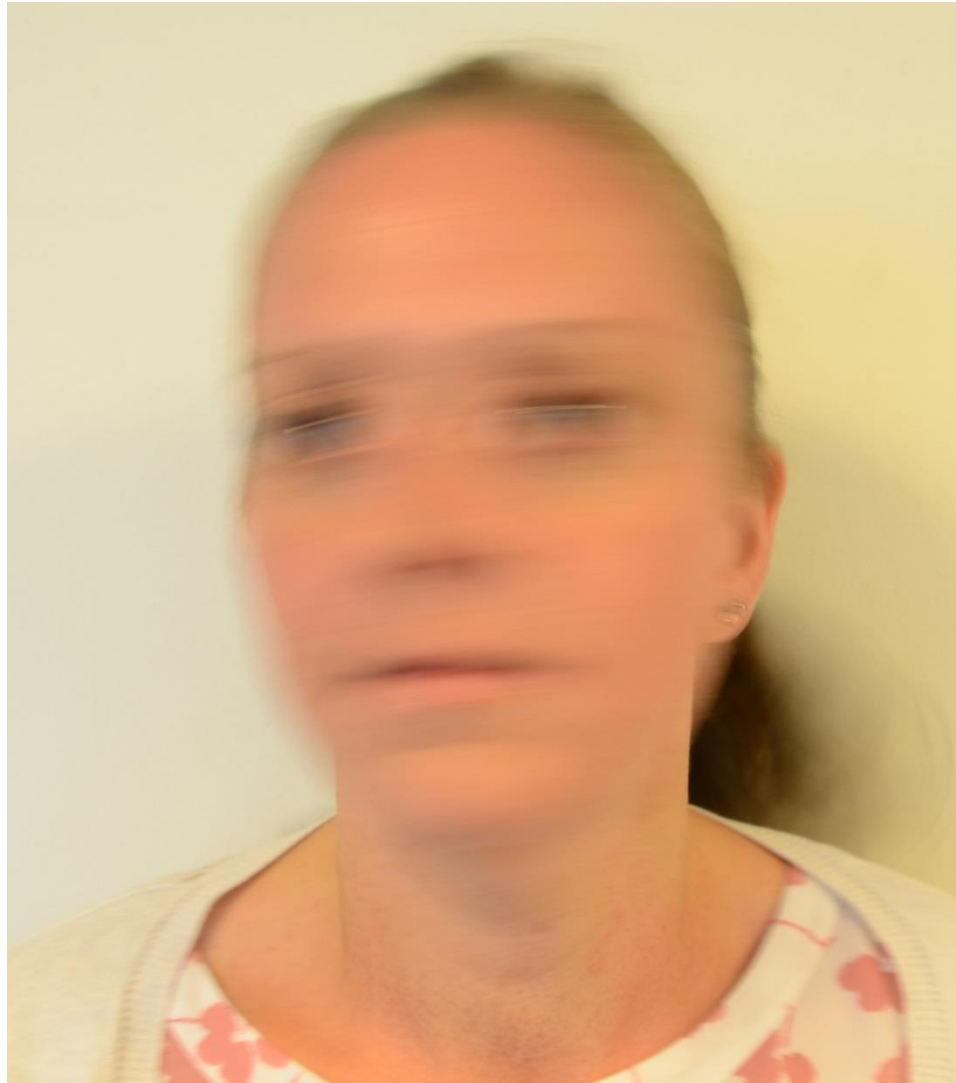
Bevegelser

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Person i bevegelse når bildet tas



Person i bevegelse når bildet tas



Profilbilder

The background of the slide is a solid blue color. On the right side, there are several overlapping geometric shapes, primarily triangles, filled with a pattern of thin, light blue lines. These lines are oriented in various directions, creating a sense of depth and movement. The shapes overlap each other, with some appearing in front of others, adding a layered effect to the design.

Profil - 45 grader



Profil – 90 grader



90 grader profil, på avstand!



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Babyer

Noe galt med dette bildet?



Rotert hode, 5% babyhode, 2 personer i bildet



Et slags profilbilde...

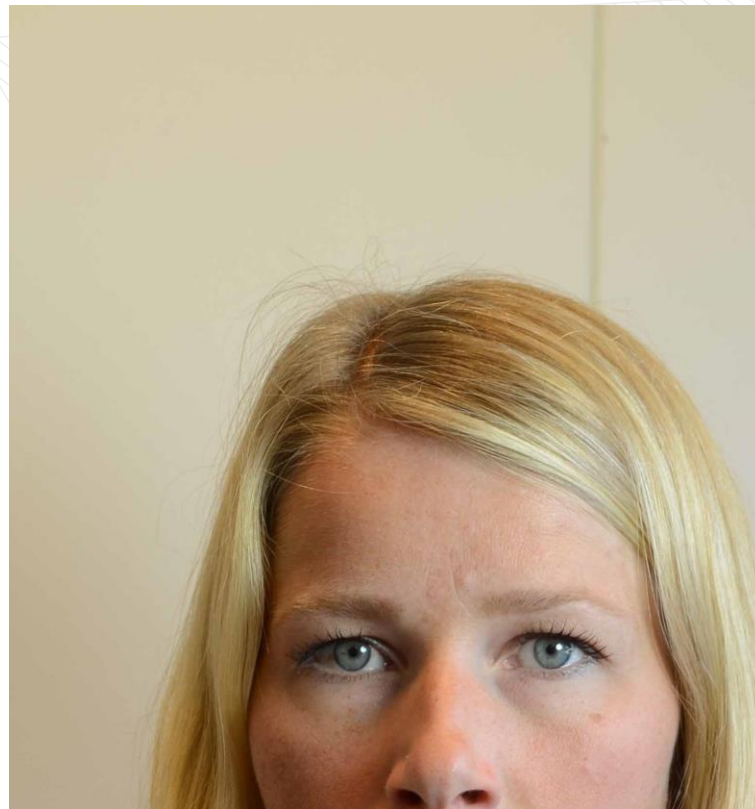


3 personer i bildet, og babyens ansikt synes ikke



Beskjæring av bildet

Beskjæring av bildet



Beskjæring av bildet



Rotasjon

The background is a solid blue color. On the right side, there are several overlapping geometric shapes, primarily triangles, filled with a pattern of thin, light blue lines. These lines are oriented in different directions, creating a sense of depth and movement. The shapes appear to be layered, with some in the foreground and others receding into the background.

Rotasjon



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Anbefalinger

Anbefalinger

- Ansiktsgjenkjenning
- Opprydding i databasen
- Bedre bildekvalitet



Anbefalinger

- Bedre opptaksutstyr
- Lagring av to bilder
 - Ett med høy kvalitet
 - Ett med lav kvalitet
- Hvis briller: Lagre to bilder.
 - Ett med og ett uten briller



Anbefalinger

- Opplæring og bevisstgjøring
 - Hvordan sette opp utstyr og opptaksmiljø
 - Hvordan ta gode bilder
- Endre bildekrav som for norske reisedokumenter
- Bruk av biometrikiosken i alle saker





Mine favoritter
(også fra utvalget som feilet)

Stempler og stifter



Søknadsskjema

Application for Schengen Visa
This application form is free

1. Surname(s) family name(s)
2. Surname(s) at birth (former family name(s))
3. First names (given names)
4. Date of birth (year-month-day)
5. The number (optional)
6. Place and country of birth
7. Current nationality(ies)
8. Original nationality (nationality at birth)
9. Sex: Male Female
10. Marital status: Single Married Separated Divorced Widowed Other
11. Father's name
12. Mother's name
13. Type of passport: Medical passport Diplomatic passport Service passport Travel document (1st Convention) Alien's passport Schengen's passport Other travel document (please specify)
14. Number of passport
15. Issued by
16. Date of issue
17. Valid until
18. If you reside in a country other than your country of origin, how can you prove your residence in that country?
No Yes (number and validity)
* 19. Current occupation
* 20. Employer and employer's address and telephone number. For students, name and address of school.
21. Main destination
22. Type of Visa: Single entry Short stay Long stay
23. Visa: Individual Collective
24. Number of entries requested: Single entry Two or more Multiple entries
25. Duration of stay: Visa is requested for days
26. Other visas (issued during the past three years) and their period of validity
27. In the case of a multi-entry permit do the final country of destination?
No Yes, valid until: Issuing authority
* 28. Previous stays in this or other Schengen states.
For Embassy / Consulate / Visa Application Centre
Date application:
File handled by:
Supporting documents:
Valid passport
Previous visas
Invitation
Statement of intention
Health Insurance
Other:
Visa:
Personal stamp
Characteristics of Visa:
Type:
A
B
C
D
D - C
Number of entries:
2 Multiple
Valid from: Valid until:
Total number of days of stay:
Valid for:
* The questions marked with * do not have to be answered by finally members of EU or EEA citizens (spouse, child or dependent grandchildren). Finally members of EU or EEA citizens have to present documents to prove this relationship.

Tom luke



Bilder av etiketter



«Gyldig uten foto»

**Valid without
photo /
Gyldig uten
foto**

Batman



Takk for oppmerksomheten!



Nasjonalt ID-senter

www.nidsenter.no