

# STUDIEPRAKTIK

## MULTIMEDIEDESIGNER

ERHVERVSAKADEMI AARHUS  
BUSINESS ACADEMY AARHUS



A close-up portrait of a young woman with long, wavy blonde hair. She is smiling warmly at the camera, showing her teeth. Her eyes are light-colored. The background is dark and slightly out of focus.

TAG EN VIDEREGÅENDE UDDANNELSE PÅ

ERHVERVSAKADEMI AARHUS  
BUSINESS ACADEMY AARHUS

[youtube.com/watch?v=kVkmI-HcoU](https://www.youtube.com/watch?v=kVkmI-HcoU)

# I kommer til at møde



**Maria Louise Bendixen**

[mlbe@eaaa.dk](mailto:mlbe@eaaa.dk)

UX og Content



**Marlene Ahlgreen Jensen**

[maj@eaaa.dk](mailto:maj@eaaa.dk)

Design



**Rasmus Cederdorff**

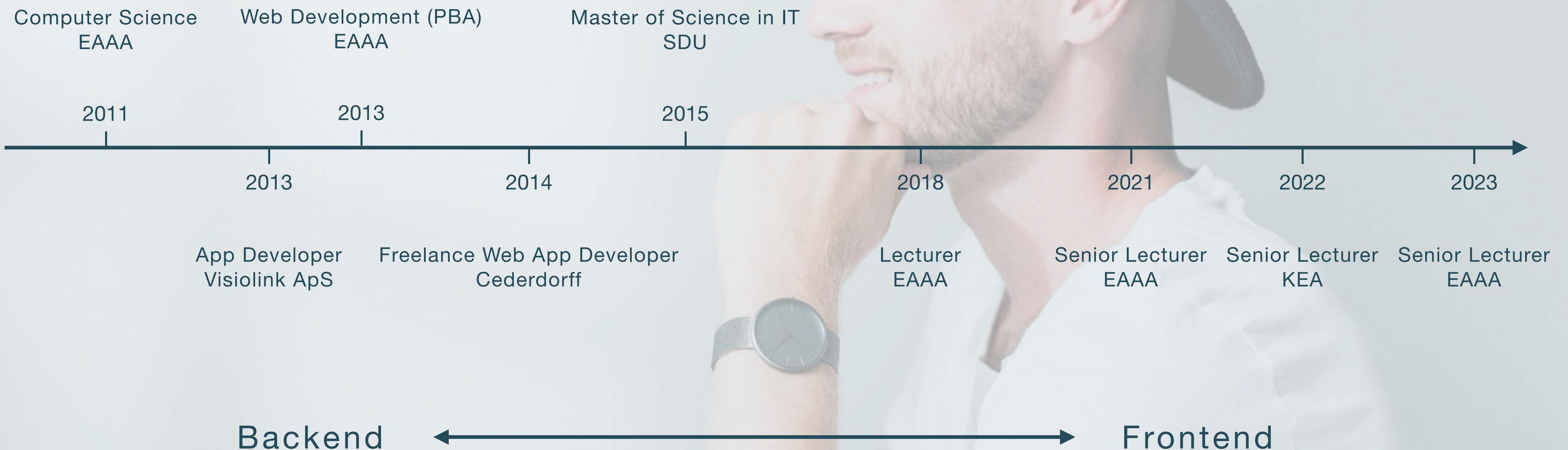
[race@eaaa.dk](mailto:race@eaaa.dk)

Programmering



I'm Rasmus Cederdorff (RACE)  
Senior Lecturer  
Freelance Web App Developer

- Programming with an eye for UI and UX.
- Web Development, JavaScript, React, BaaS & Node.js
- “I speak JavaScript”.
- Websites, Webshops, Web Apps, Mobile Apps, Server App and BaaS.





# PROGRAM ONSDAG

- Godmorgen og Velkommen
- Introduktion til MDU & rundvisning
- Uddannelsens tekniske elementer
- Frokost
- Opstart af case
- Casearbejde



FRIVILLIG  
AKTIVITET  
ONSDAG

16.00: Rundtur i Aarhus C  
Afslutning på Aarhus  
Streetfood hvor  
Erhvervsakademiet giver mad  
Mødested: udenfor  
indgangen Sønderhøj 30

- Design på MDU
- Casearbejde
- Frokost
- UX/UI på MDU ved  
Maria Louise Bendixen
- Besøg af nuværende  
studerende fra 3. semester
- Afrunding og præsentation  
af casearbejde



E T G L I M T A F M D U



# FORMÅL

... at stifte bekendskab med uddannelsen,  
hvad en multimediedesigner er, og hvilke  
værktøjer multimediedesigneren bruger

# LOKATIONER



Erhvervsakademi Aarhus  
Sønderhøj 30, 8260 Viby J

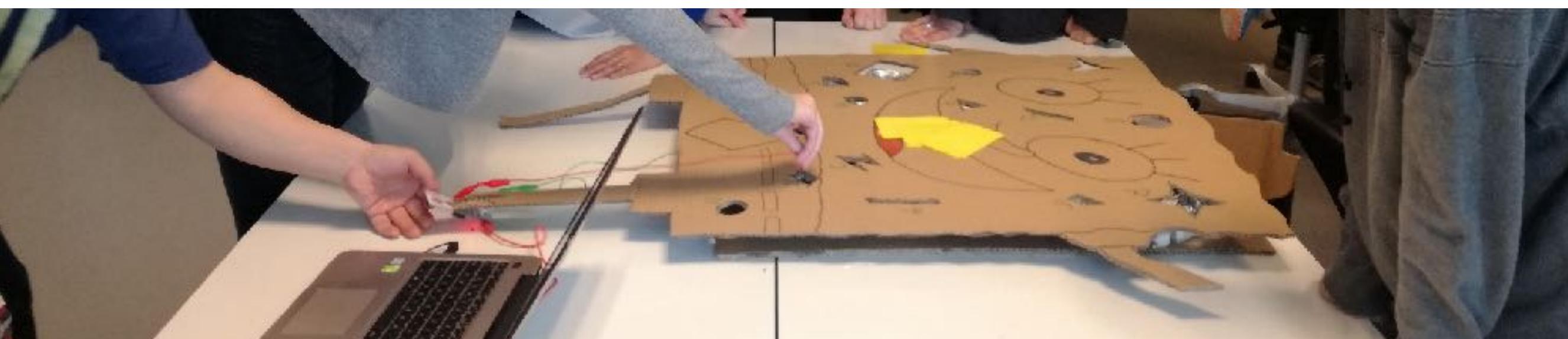
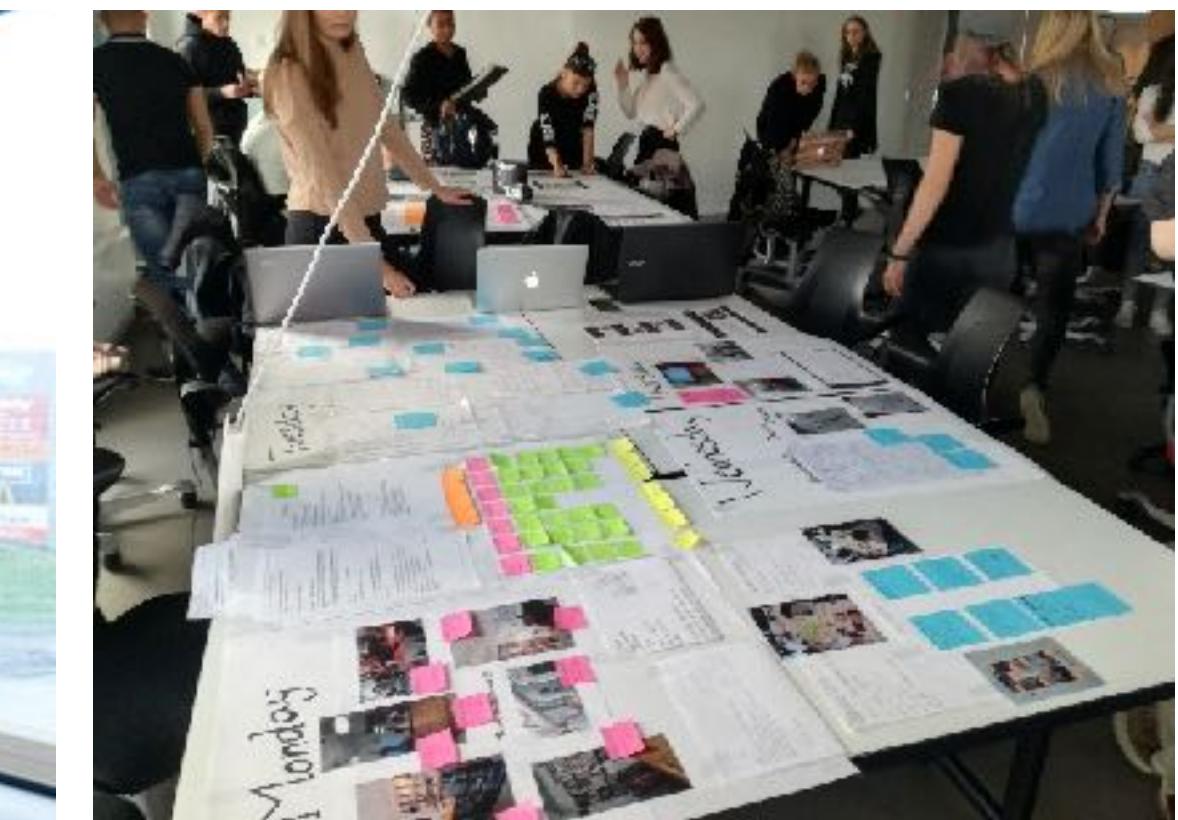


Erhvervsakademi Aarhus  
Ringvej Syd 104, 8260 Viby J



Erhvervsakademi Aarhus  
Sønderhøj 7G, 8260 Viby J







# FACILITETER

- Basement & Tutoraktiviteter
- Bibliotek
- Boghandel - Factum Books
- Internationalt Kontor
- Kantine
- Karrierecenter – kurser og vejledning
- Samarbejde med erhvervslivet
- Studievejledning

# MULTIMEDIEDESIGNERUDDANNELSEN

DESIGN & PROGRAMMERING

AF

DIGITALE BRUGERGRÆNSEFLADER & DIGITALT INDHOLD

# MULTIMEDIEDESIGNERUDDANNELSEN

... UDVIKLING OG IMPLEMENTERING AF DIGITALE  
BRUGEROLEVELSER, DIGITALT DESIGN OG  
PROGRAMMERING

# MULTIMEDIEDESIGNERUDDANNELSEN

... SKABE MULTIMEDIE PRODUKTIONER, DIGITALE  
BRUGERGRÆNSEFLADER OG BRUGEROPLEVELSER I ALLE  
AFSKYGNINGER

API

Data

Visueldesign

Web Apps

3D-oplevelser

SoMe

AR & VR

Webshops

Apps

Spil

Websites

Glem ikke... -10% på dit køb. Tilmeld dig her! ❤

**VERO MODA**

Søg



Nyheder

Tøj

Trending Now

AWARE

Curve & Plus Size

VERO MODA Girl

Ventetøj

SOMETHINGNEW

SALE

Most Wanted

VERO MODA Club

Party Season



NYHEDER

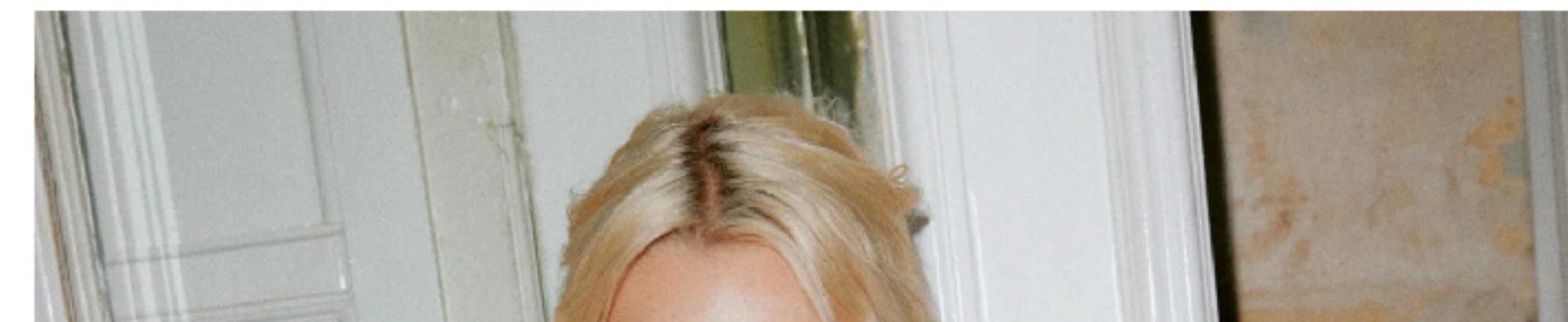
shop nu

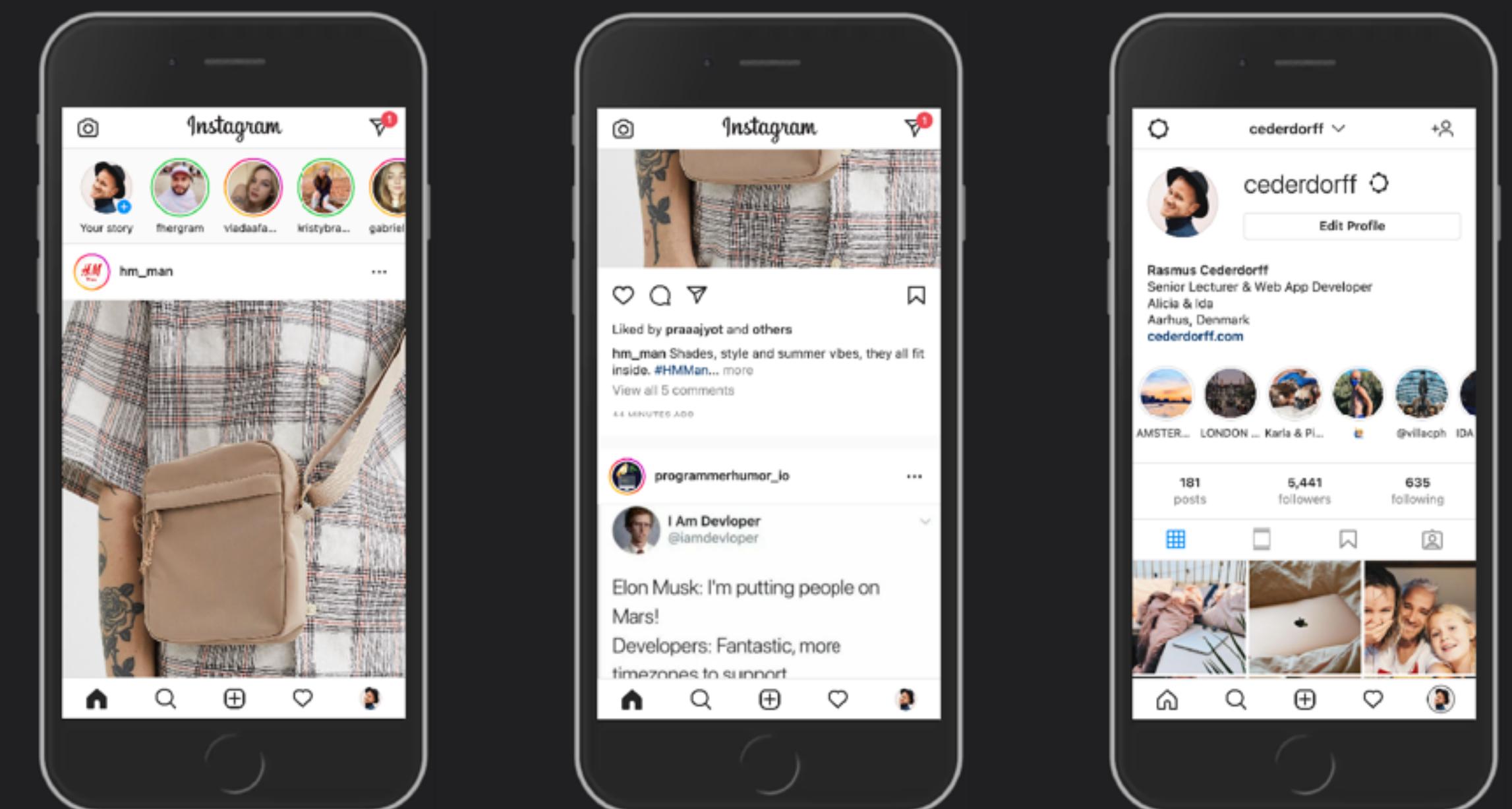
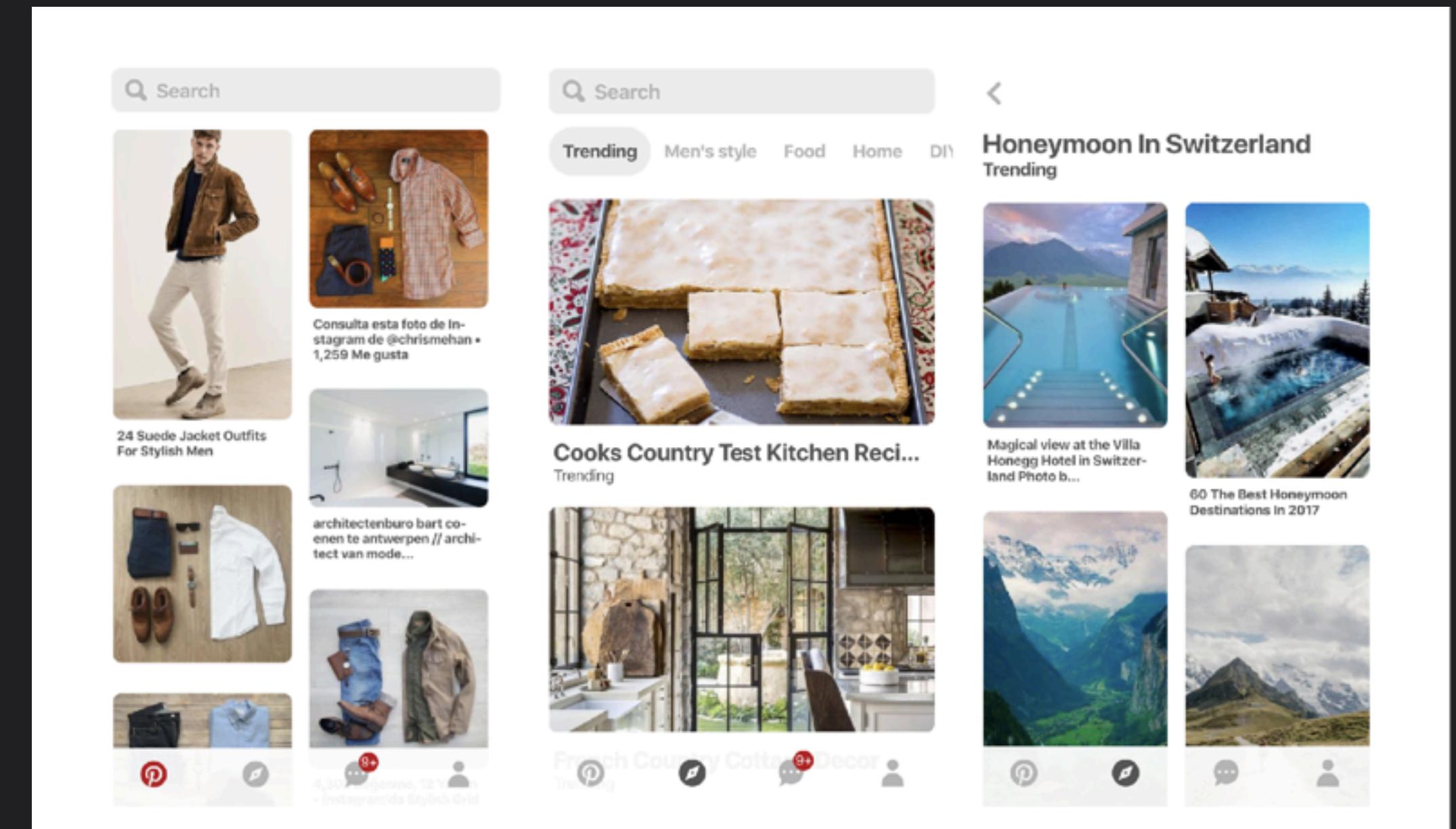
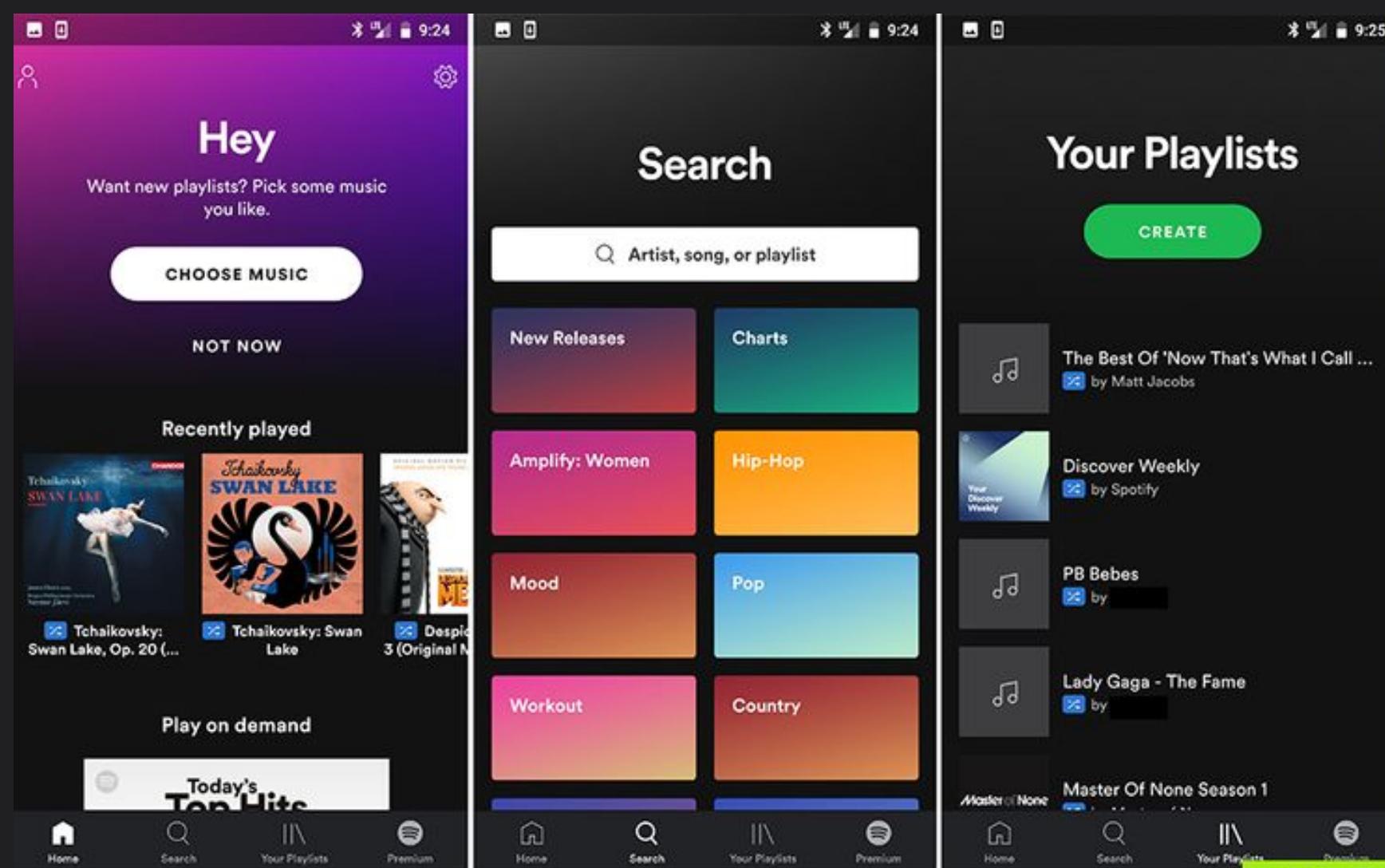
JAKKER

JEANS

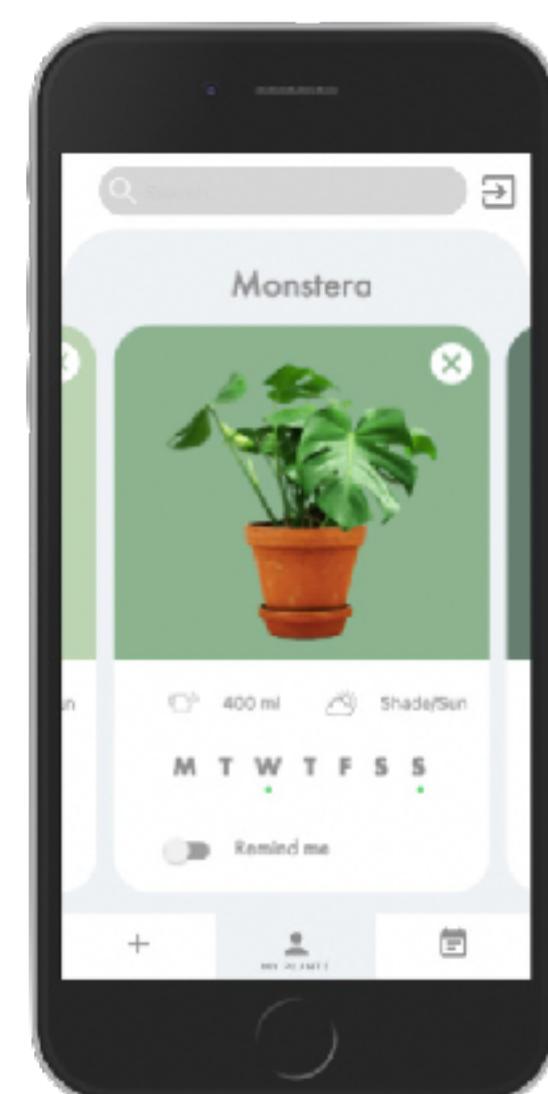
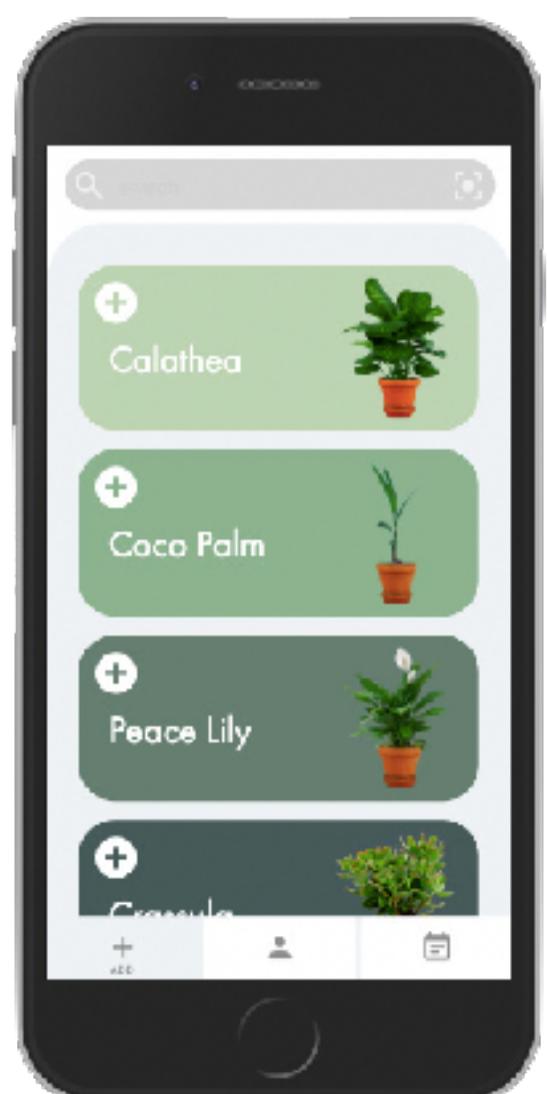
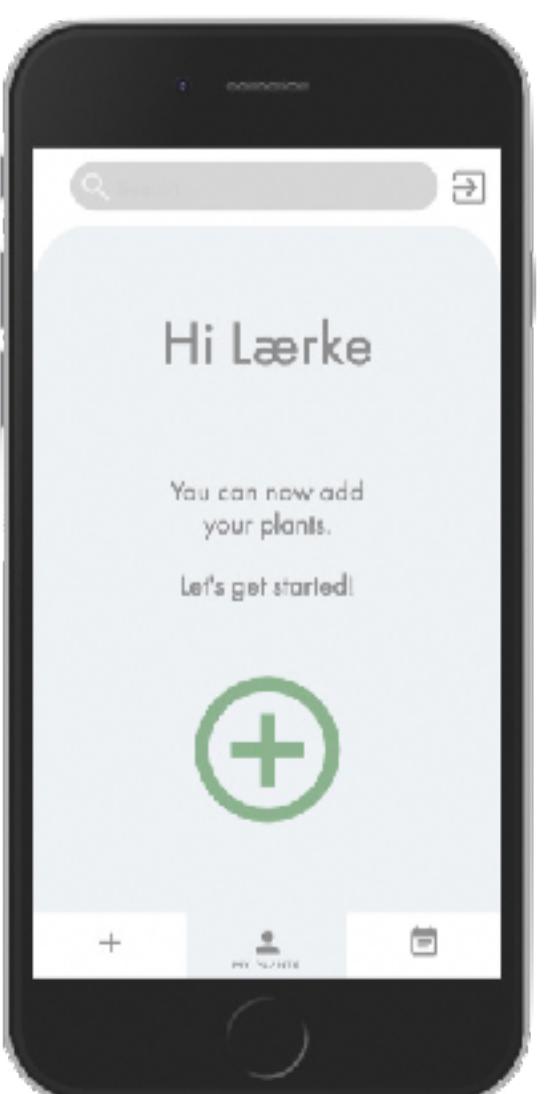
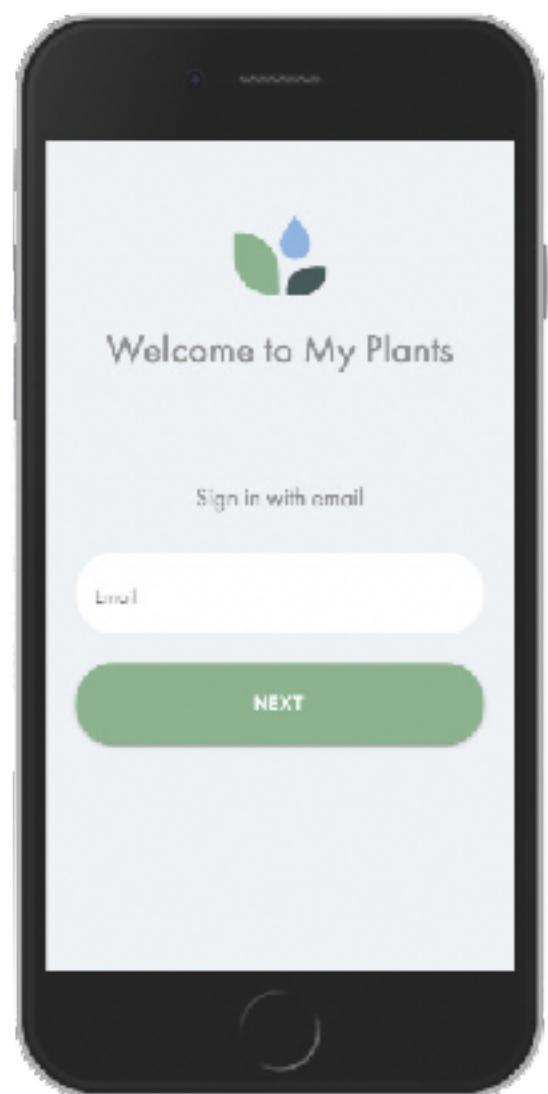
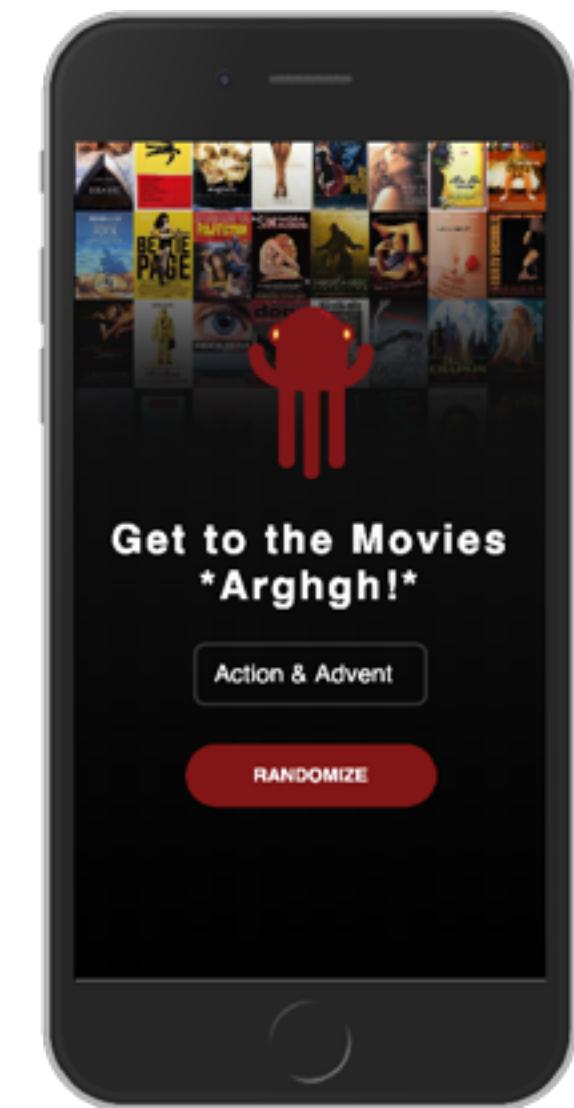
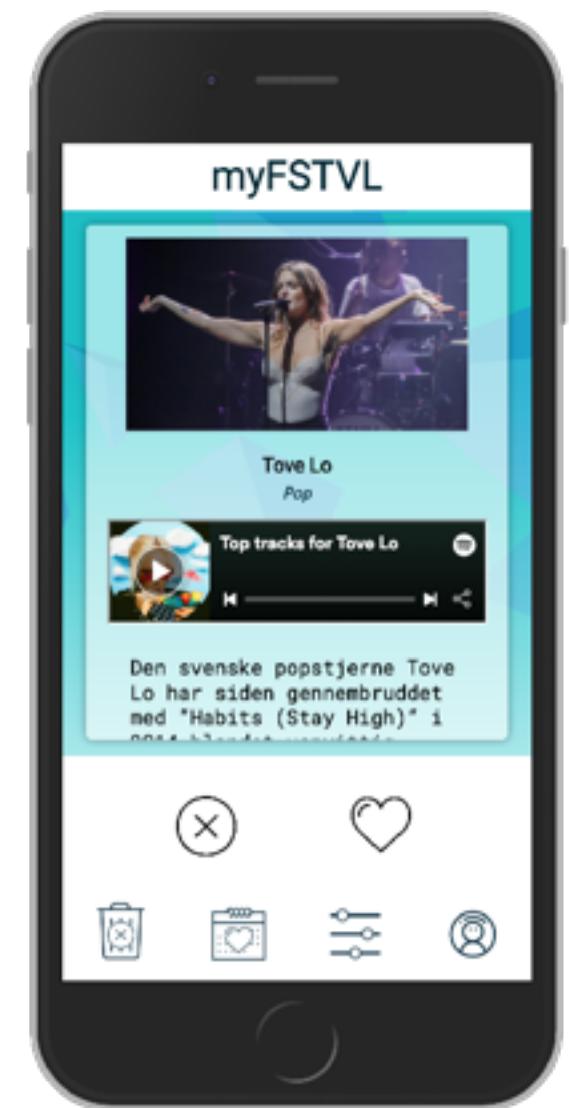
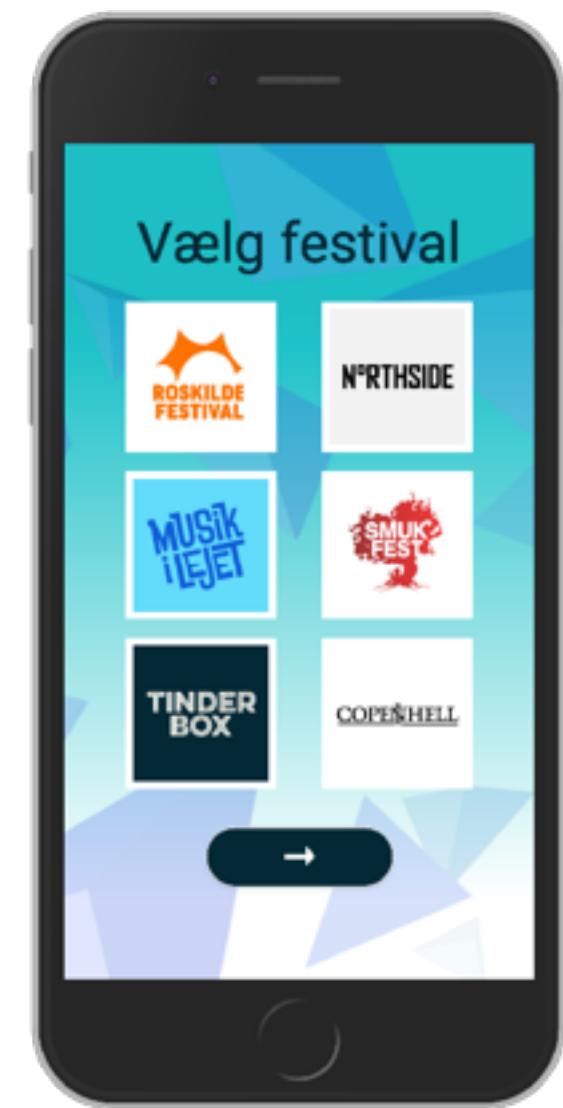
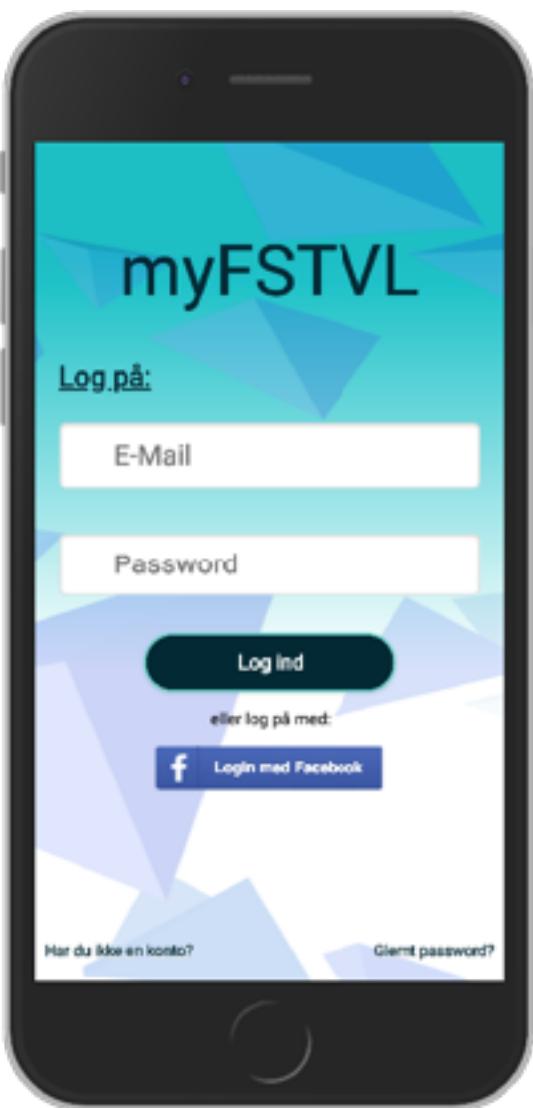
STRIK

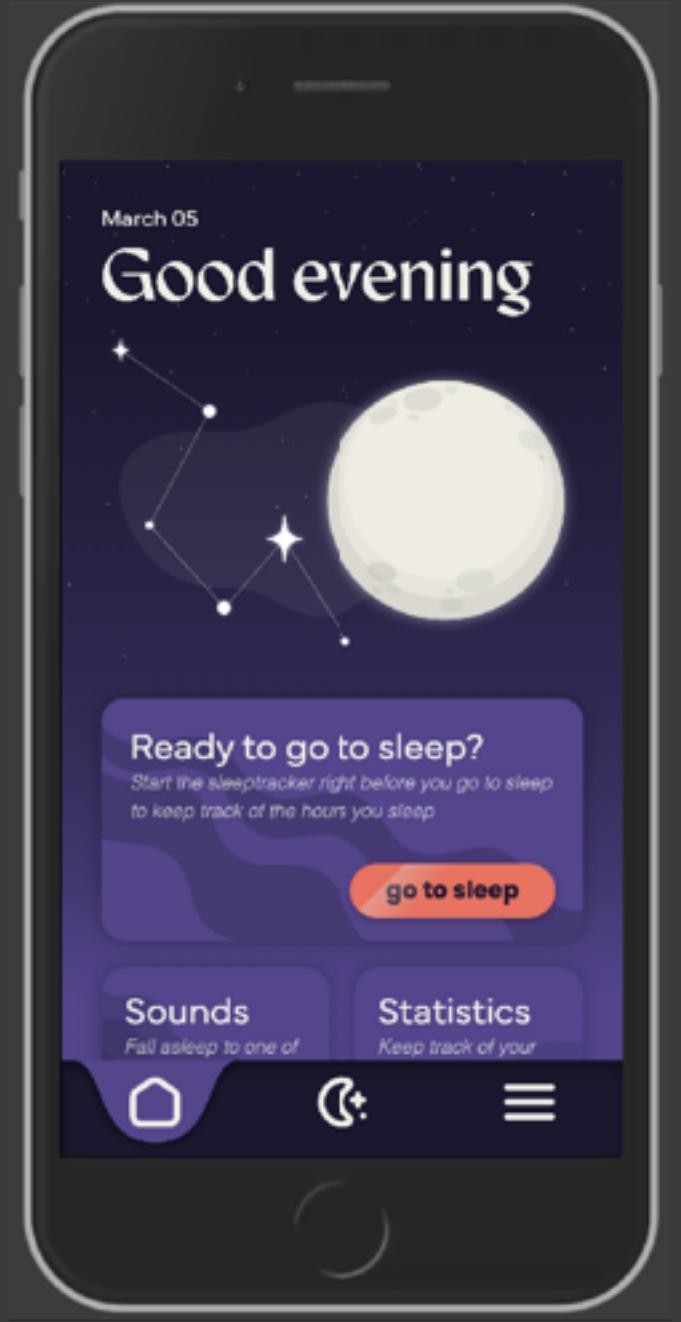
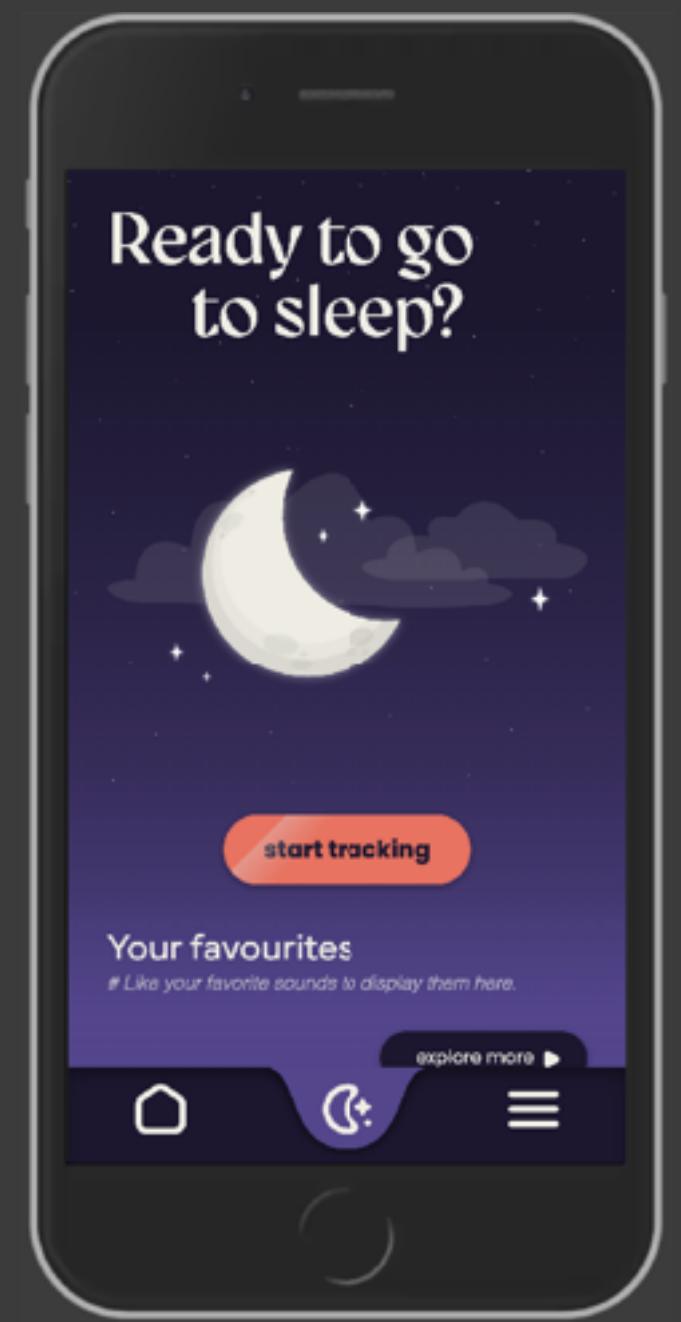
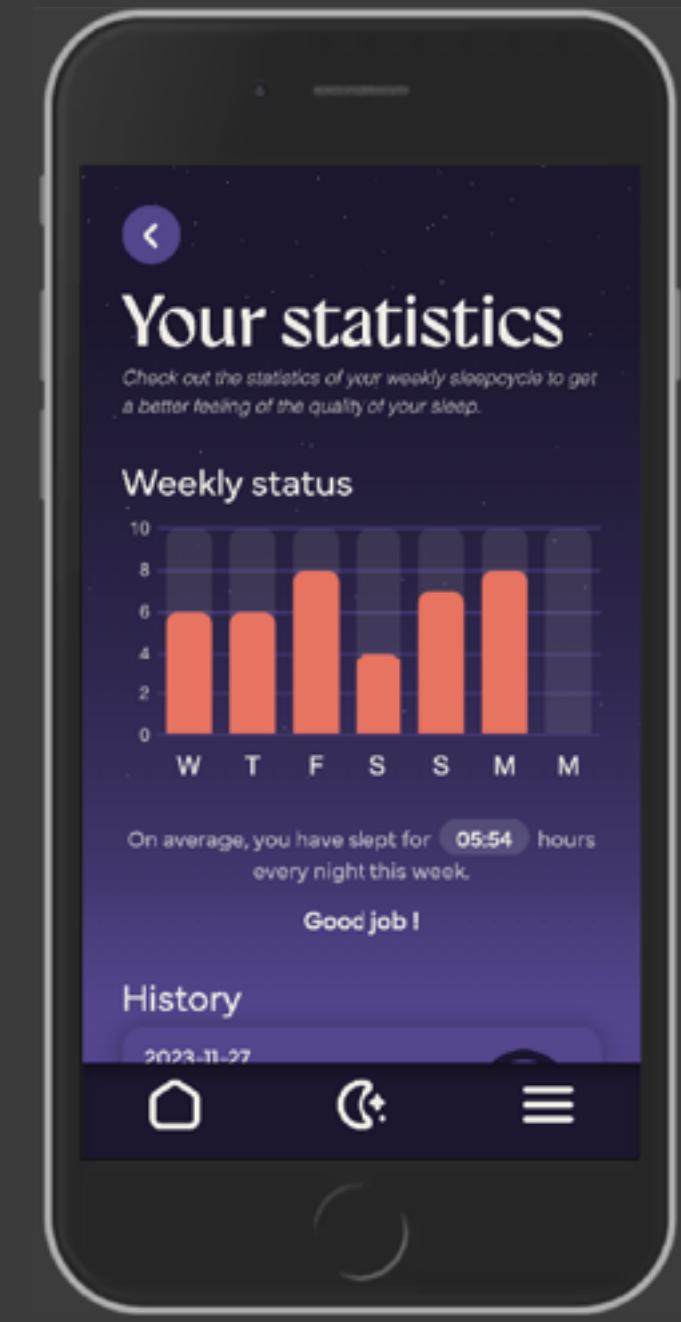
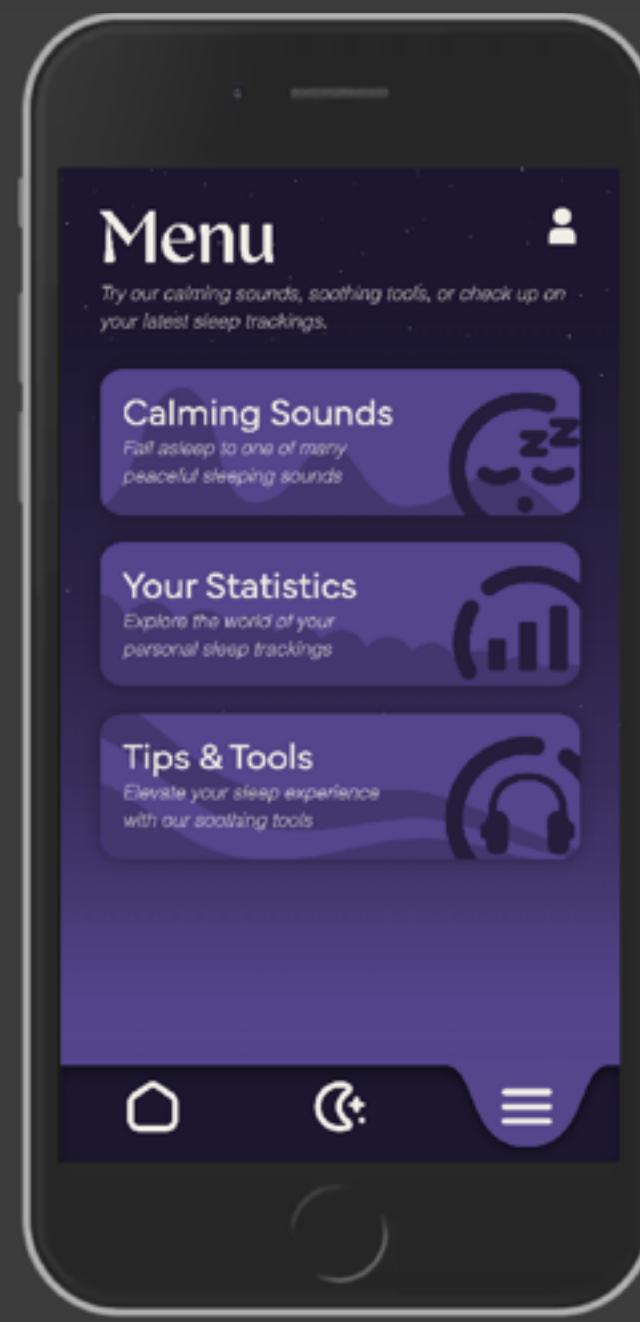
KJOLER

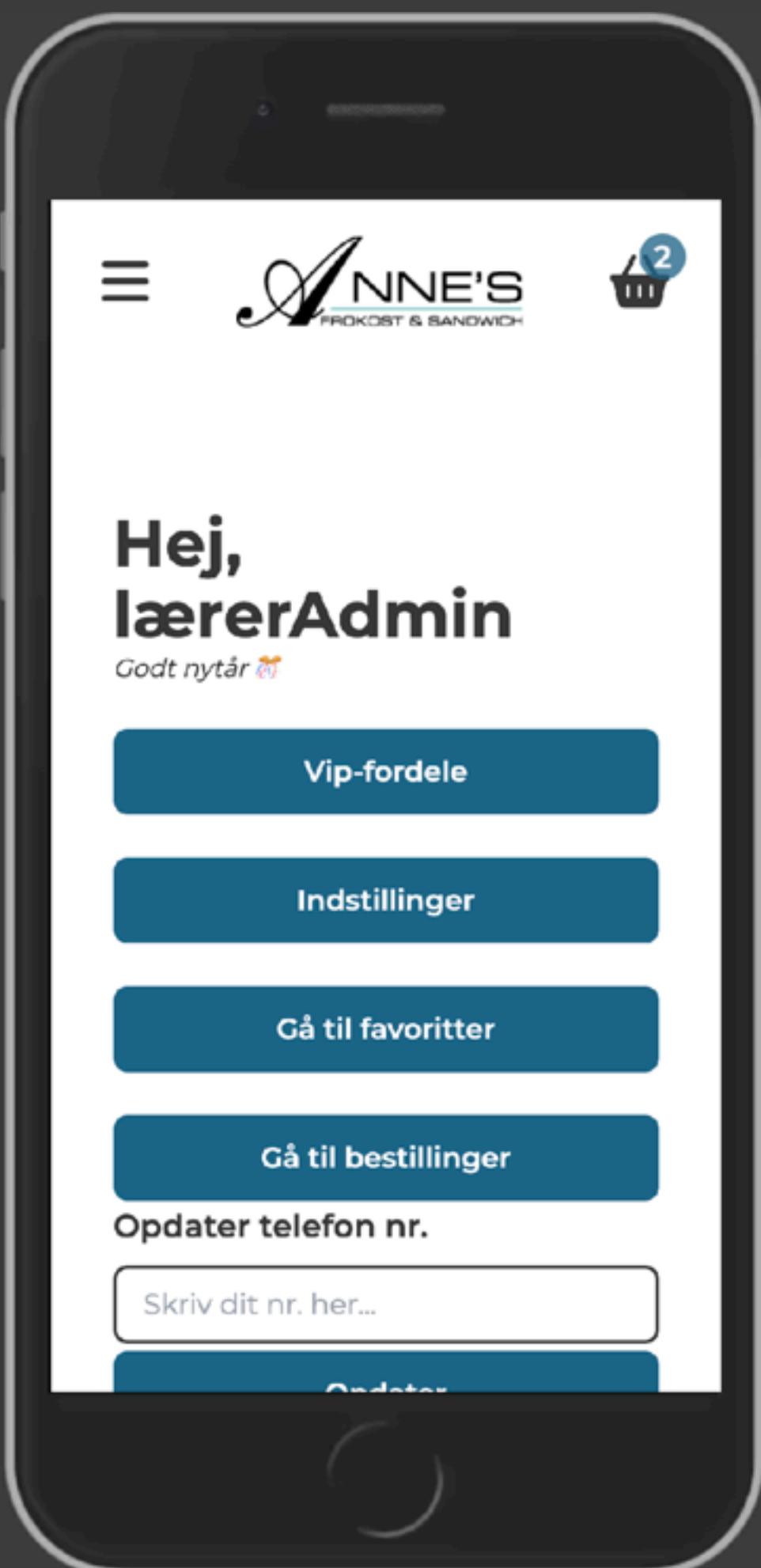
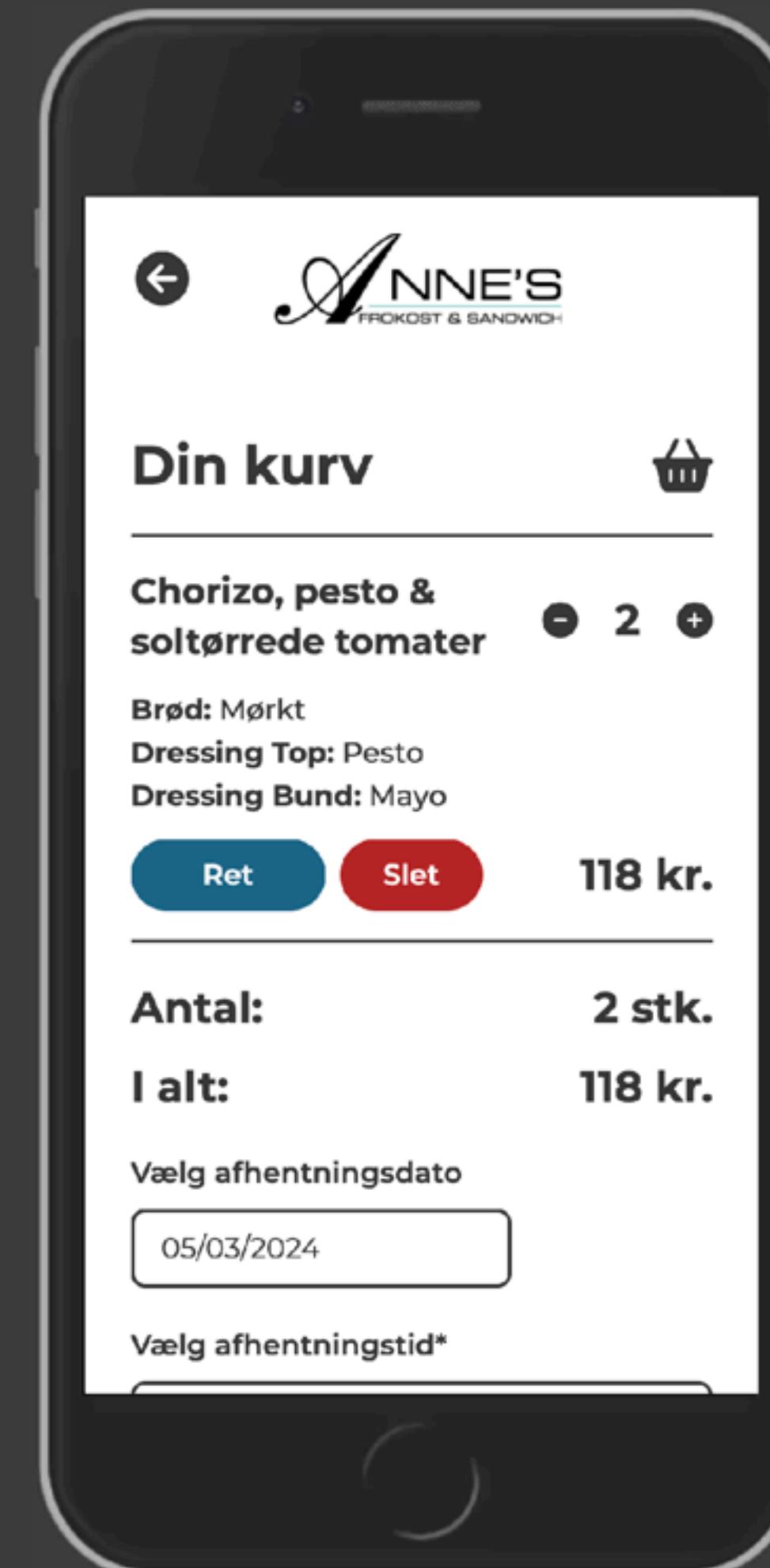
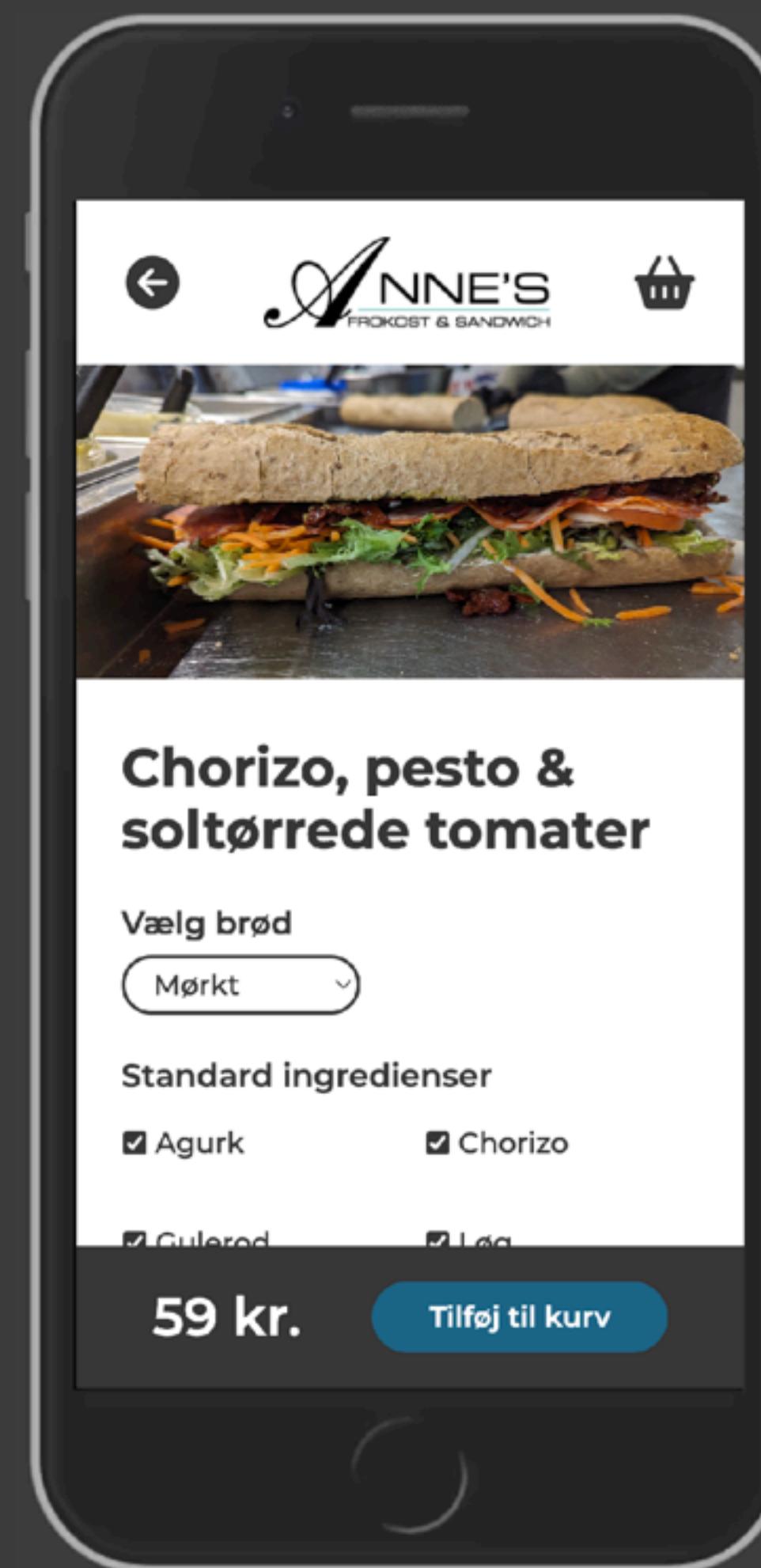
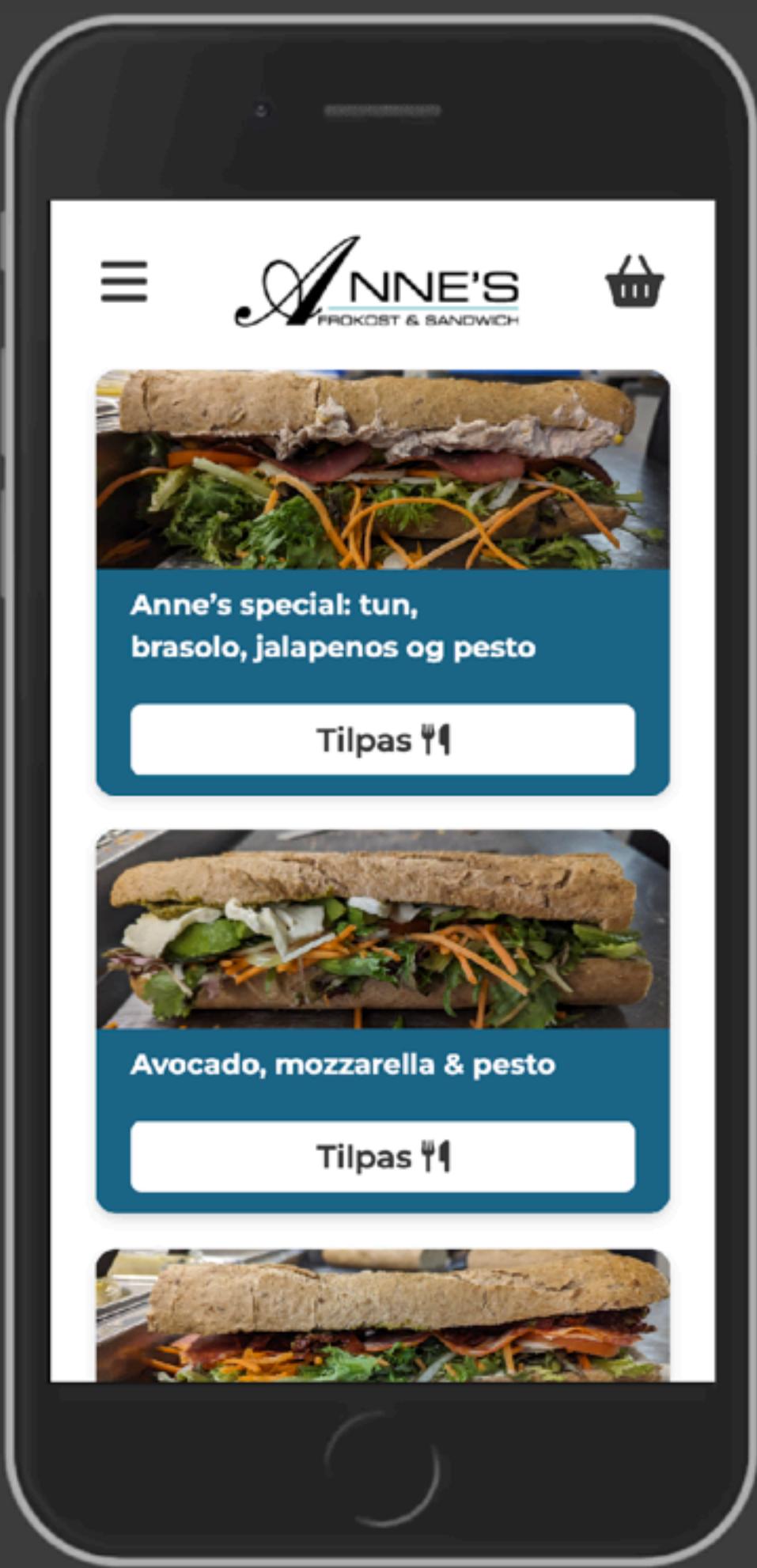


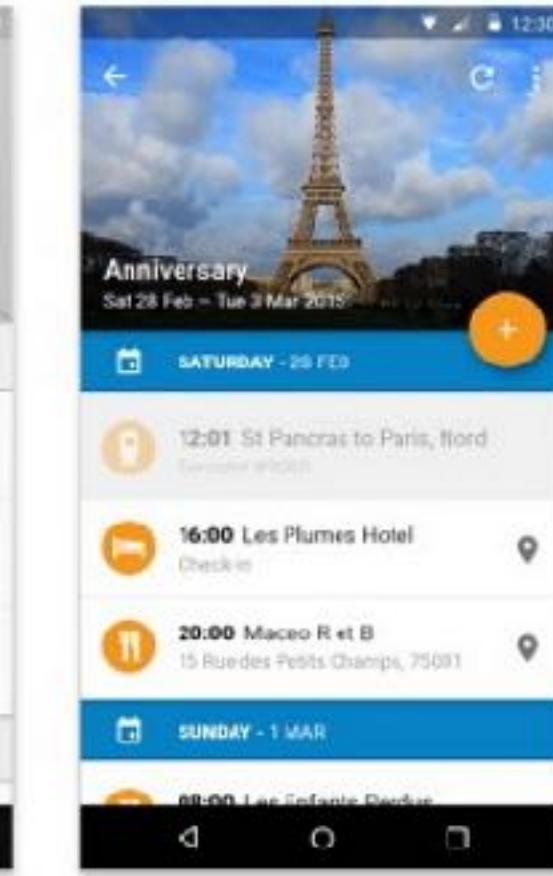
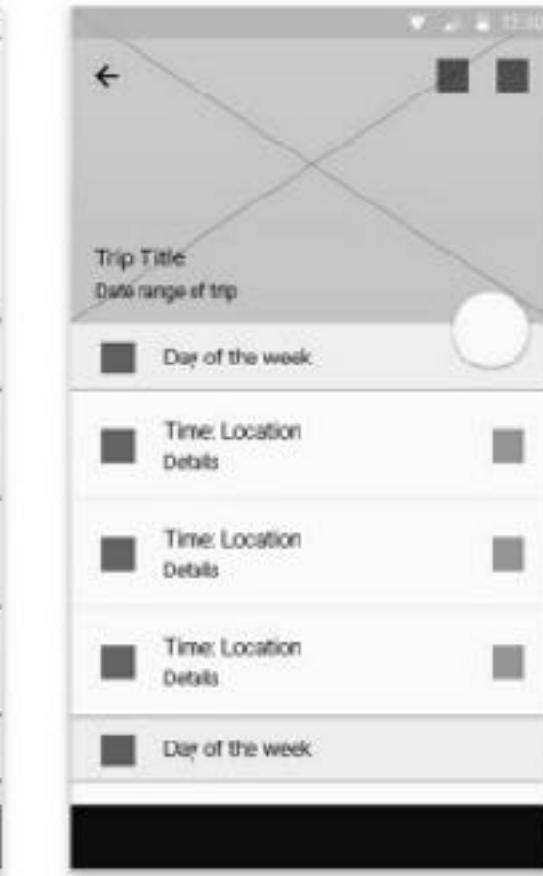
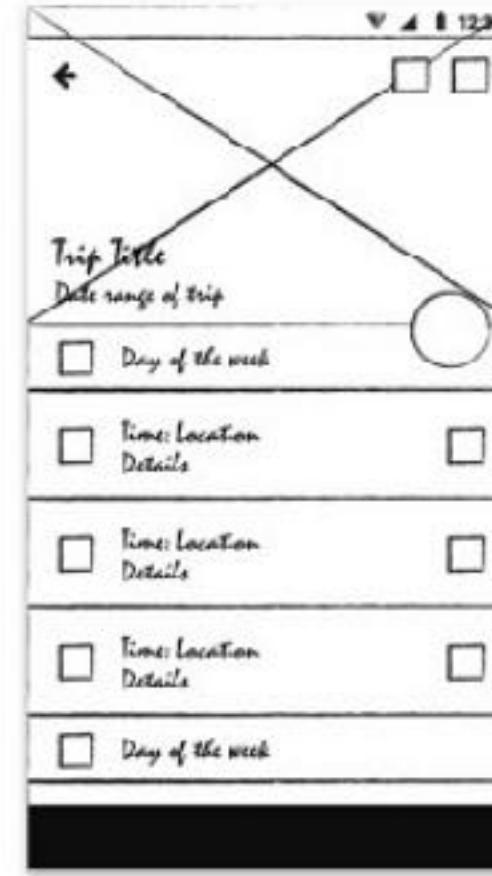
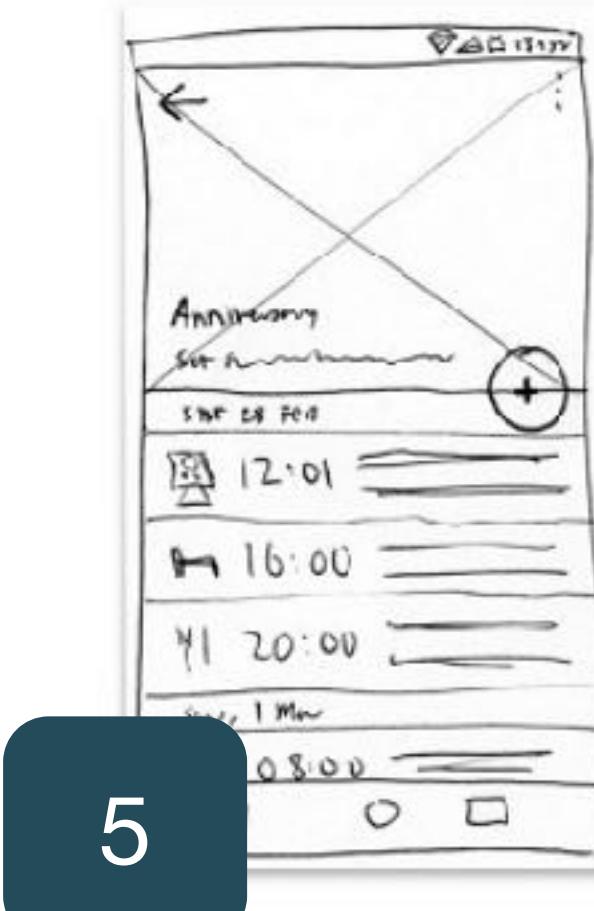












6



7

7

# THE PROTOTYPING PROCESS



SKETCHES → WIREFRAMES → MOCK-UPS → PROTOTYPE

DRAWING  
PEN AND PAPER

MORE VISUAL  
XD, FIGMA

GRAPHIC DESIGN  
PS, XD, FIGMA

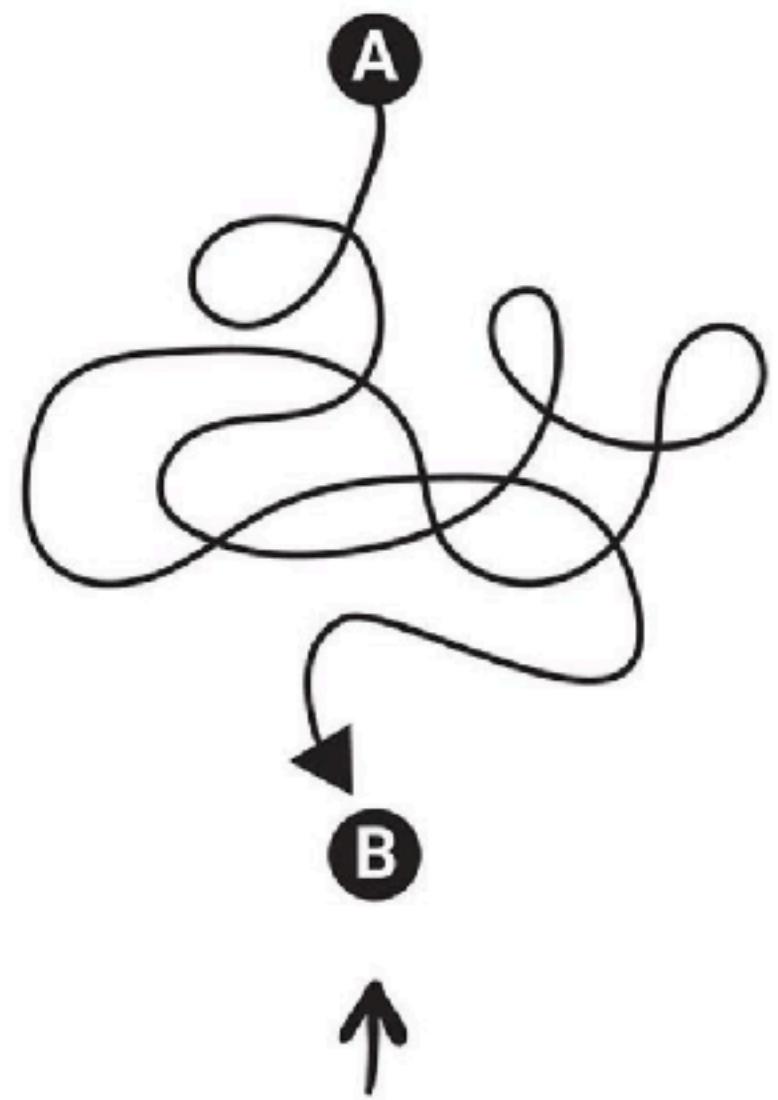
INTERACTIVE  
XD, FIGMA CODE

**What you think  
users do**



@uxbites

**What users  
actually do**



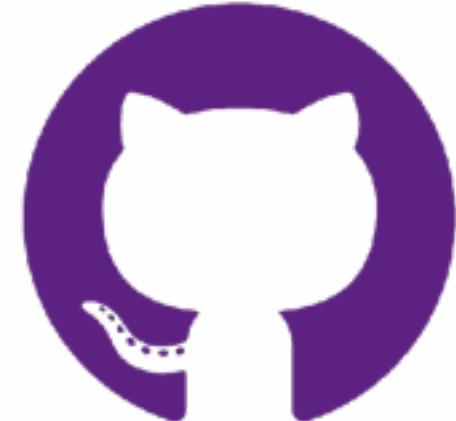
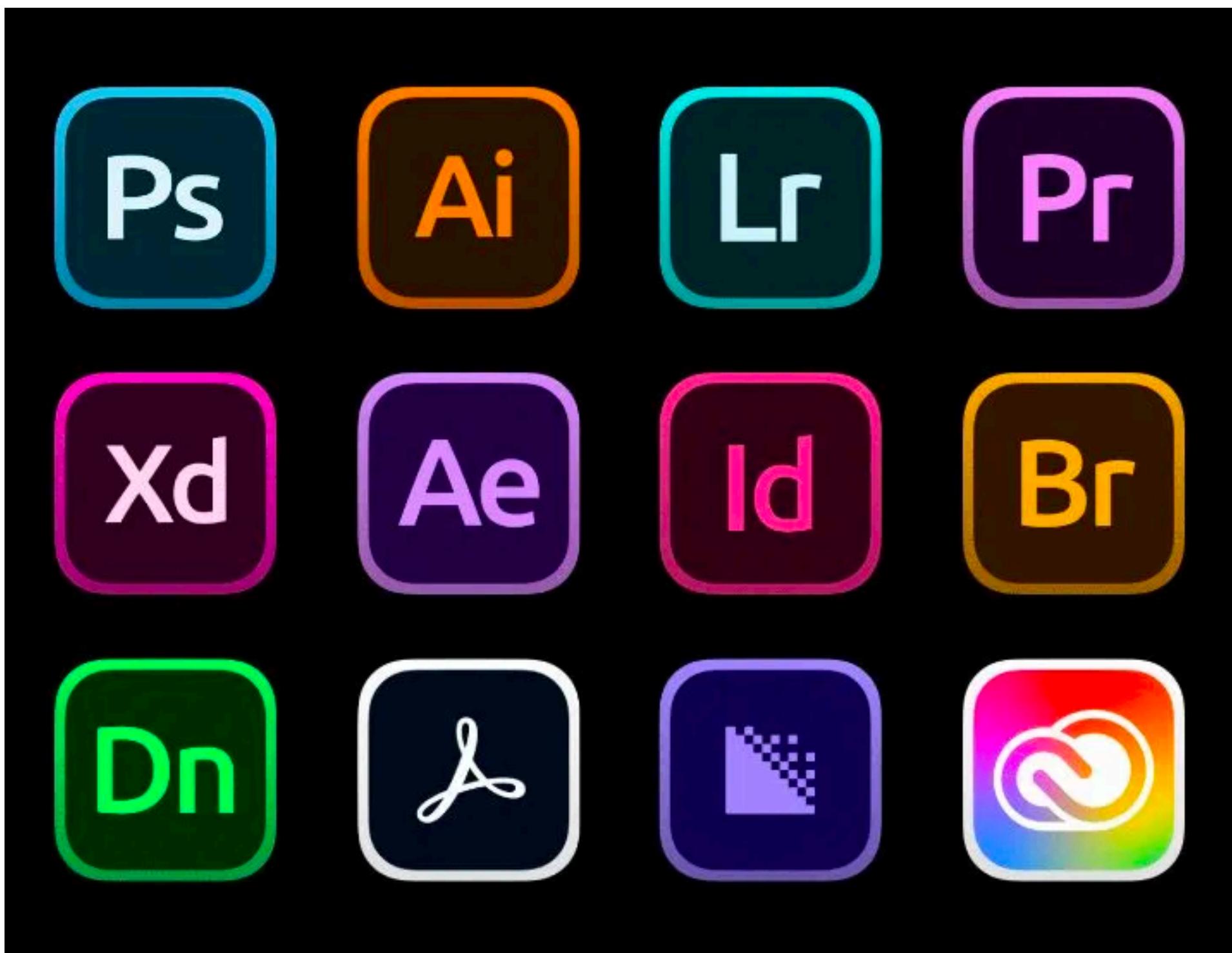
REVEALED BY USER TESTING



# MULTIMEDIEDESIGNERENS VÆRK TØJSKASSE



Adobe® Creative Cloud™



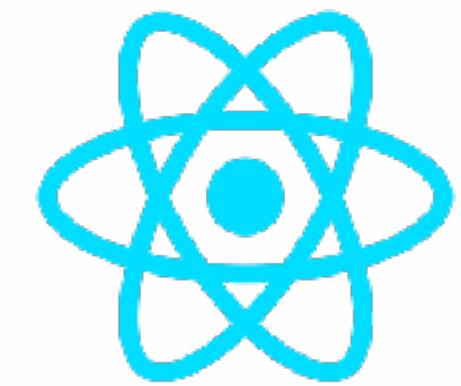
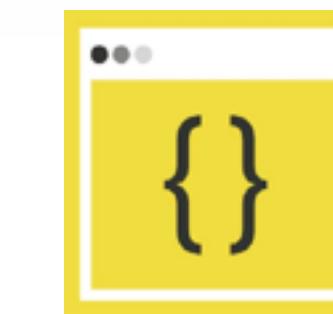
HTML



JS



CSS



React JS



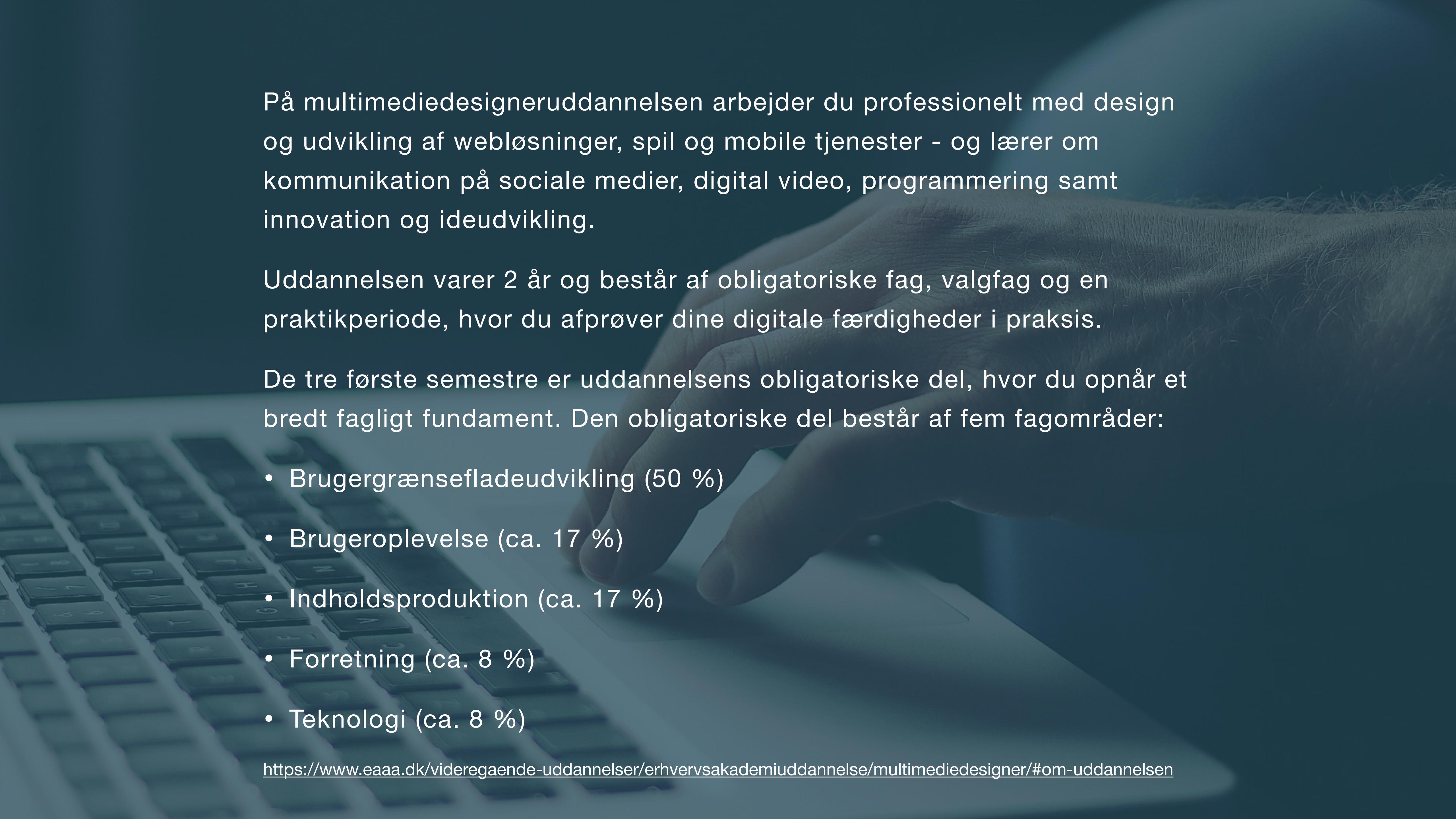
Klar til job på 2 år  
2-årig videregående uddannelse  
i digitale medier, programering, design og brugeroplevelser (UX)

Tæt på praksis og masser af 'hands on'  
Gruppearbejde, undervisning, case- og projektarbejde

Mulighed for at tage 3. og/eller 4. semester i udlandet

#### VIDEREUDDANNELSE

Digital koncept-udvikling, Webudvikling, E-commerce samt  
Innovation & Entrepreneurship + adskillige på VIA University og  
andre steder



På multimediedesigneruddannelsen arbejder du professionelt med design og udvikling af webløsninger, spil og mobile tjenester - og lærer om kommunikation på sociale medier, digital video, programmering samt innovation og ideudvikling.

Uddannelsen varer 2 år og består af obligatoriske fag, valgfag og en praktikperiode, hvor du afprøver dine digitale færdigheder i praksis.

De tre første semestre er uddannelsens obligatoriske del, hvor du opnår et bredt fagligt fundament. Den obligatoriske del består af fem fagområder:

- Brugergrænsefladeudvikling (50 %)
- Brugeroplevelse (ca. 17 %)
- Indholdsproduktion (ca. 17 %)
- Forretning (ca. 8 %)
- Teknologi (ca. 8 %)

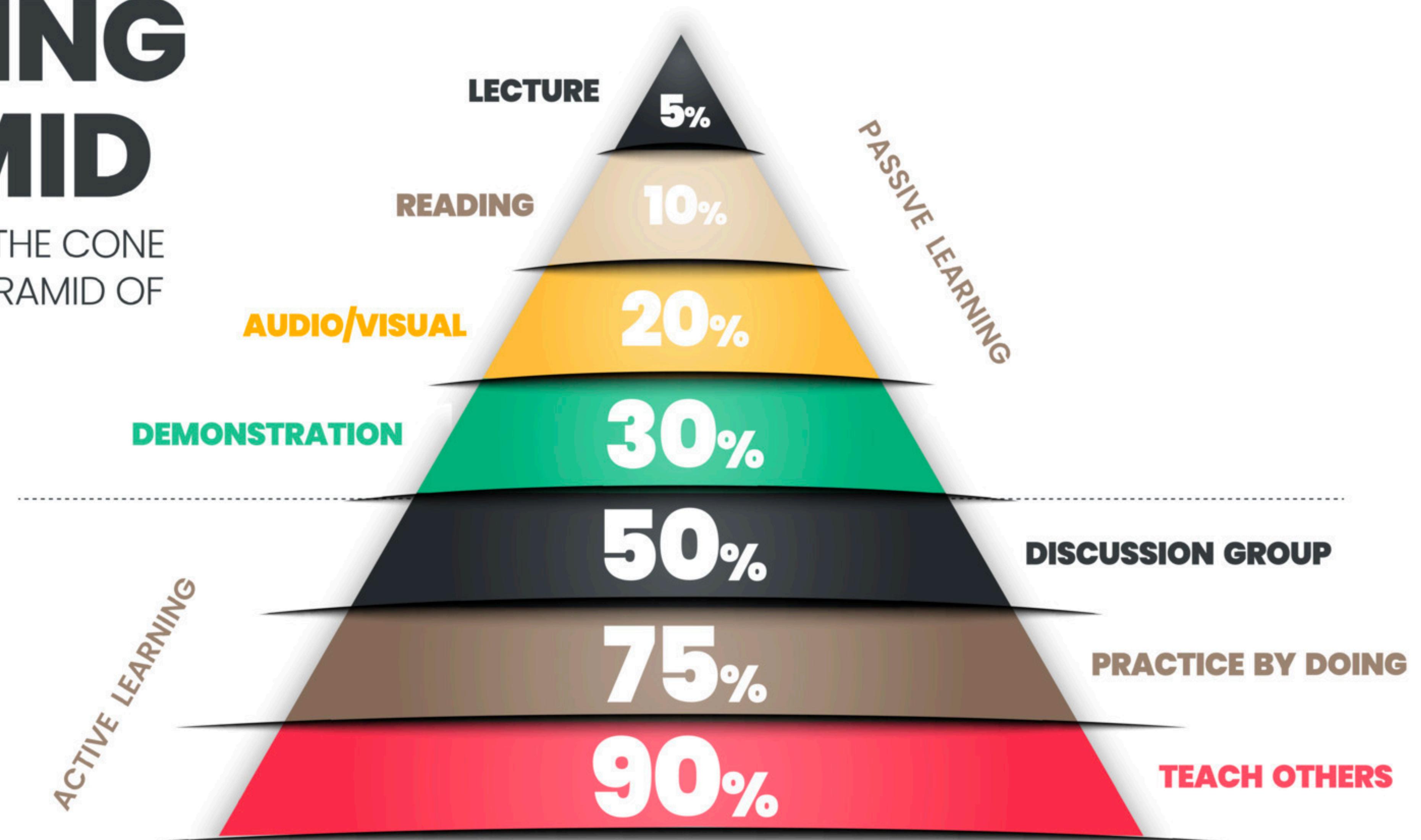
# OVERBYGNINGER



[Læs mere her](#)

# LEARNING PYRAMID

THE LEARNING CONE, THE CONE OF RETENTION, THE PYRAMID OF RETENTION

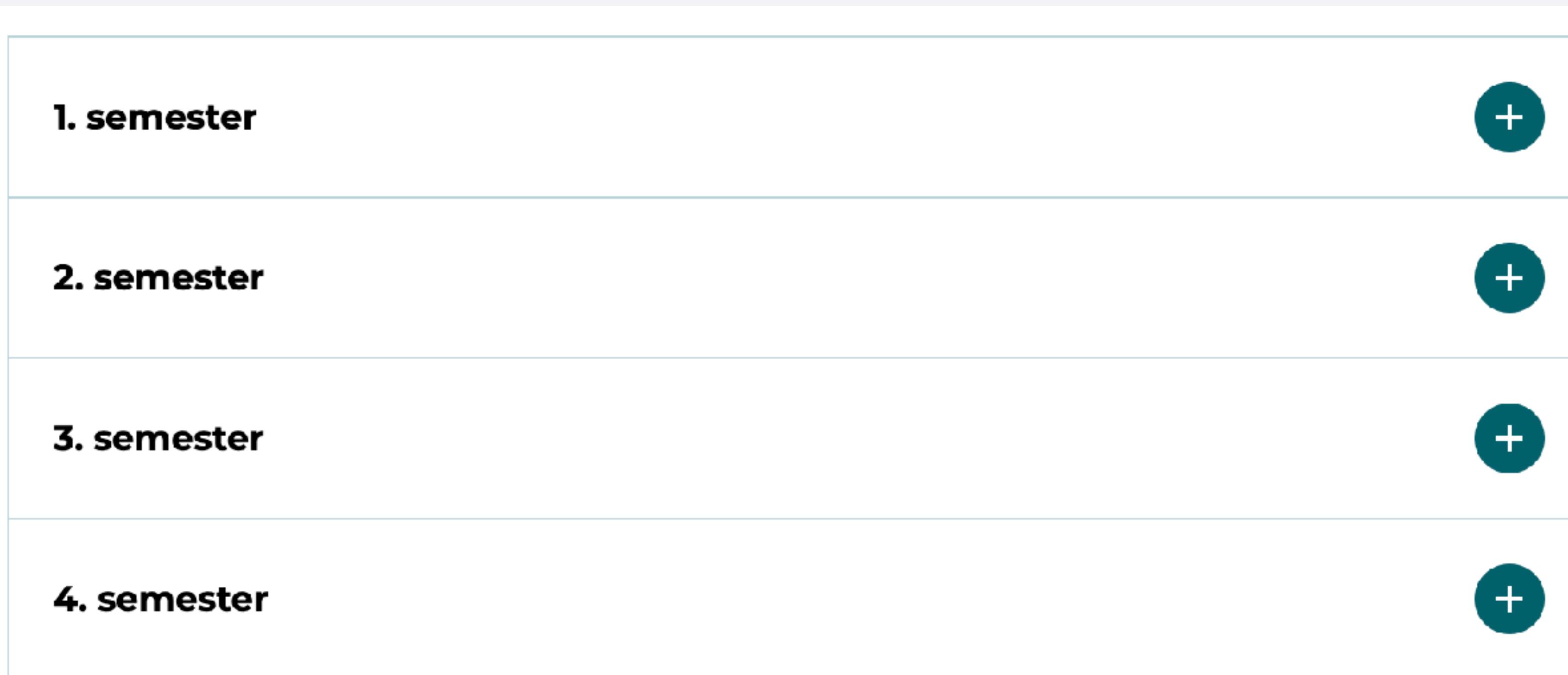


A medium shot of a young woman with dark hair and glasses, smiling warmly at the camera. She is wearing a light-colored, textured jacket over a dark top and a thin necklace with a small circular pendant. The background consists of a large window with a black frame, looking out onto a bright, sandy beach under a clear blue sky.

UDDAN DIG TIL MULTIMEDIEDESIGNER

<https://www.youtube.com/watch?v=-ck-7NS9d5U>

# UDDANNELSENS OPBYGNING



<https://www.eaaa.dk/videregaende-uddannelser/erhvervsakademiuddannelse/multimediedesigner/#om-uddannelsen>

|             |  |                               |   |   |  |
|-------------|--|-------------------------------|---|---|--|
| 1. semester | SPRINT-uge<br>(website for virksomhed)   | Online Magasin<br>(Eget emne) | Mobile First<br>(website - mobil, tablet og pc) | * | Eksamens-projekt<br>(website for produkt)    |
| 2. semester | Digital Storytelling   | UX/UI<br>(Brugeroplevelse)    | Specialisering                                  |   | Eksamens-projekt<br>(website for virksomhed) |
| 3. semester | <p style="text-align: center;">Specialiseringslinjer</p> <p style="text-align: center;">Frontend Developer, Content Creator eller E-commerce Design &amp; Development</p> <p style="text-align: center;">(3 eksamensprojekter)</p> |                               |   |   |  |
| 4. semester | Praktikforløb<br>(selvvalgt virksomhed)  |                               | Afsluttende projekt<br>(Hovedopgave)            |   |  |



Gruppeprojekt



Individuelt projekt



\*

Specialisering



Praktik & Hovedopgave



DU KAN OGSA LÆSE "OS"  
PÅ INTERNATIONALK

<https://www.baaa.dk/programmes/multimedia-design/>



**Study Multimedia Design  
in Denmark!**

# 4 “Nye” Linjer

## 1. International

Lidt af det hele  
UX + Frontend  
JavaScript

## 2. Game Developer

Univers og spil  
Unity og C#

## 3. Interaktion Design

Løsningerne der  
gør noget

JavaScript,  
React, NextJS

## 4. Experience Design

Oplevelser og  
køb

Wordpress  
Shopify

## Dansk 1. semester

MDU håndværk  
JavaScript, HTML, CSS  
UI design

# 1. Semester – i proces

Komponenter

Produktkort  
i en  
webshop

CTA knap  
på et site

Farvevalg  
på et site/  
shop

McD  
bestillings-  
skærm

Evaluering  
af  
løsninger

Temaer &  
fagområder

UI og Figma  
Designprincipper  
Designsystemer  
Data og kvalitet i data  
Computational thinking

COUX + IA  
Programmering – træning  
Test og testmetoder  
Analyse og syntese  
Sociologi og psykologi (design-  
og bruger)

Grids  
Data fra JSON -> UI Cards  
Idegenerering  
Prototyping

**Eksamens**  
Mundtlig refleksion  
½ time på  
baggrund af en  
portfolio, intern

# Game Developer

## 1. semester

2D,  
Characterdesign  
Spilprogram-  
mering

## 2. semester

3D,  
Univers design  
Spilprogram-  
mering

## 3. semester

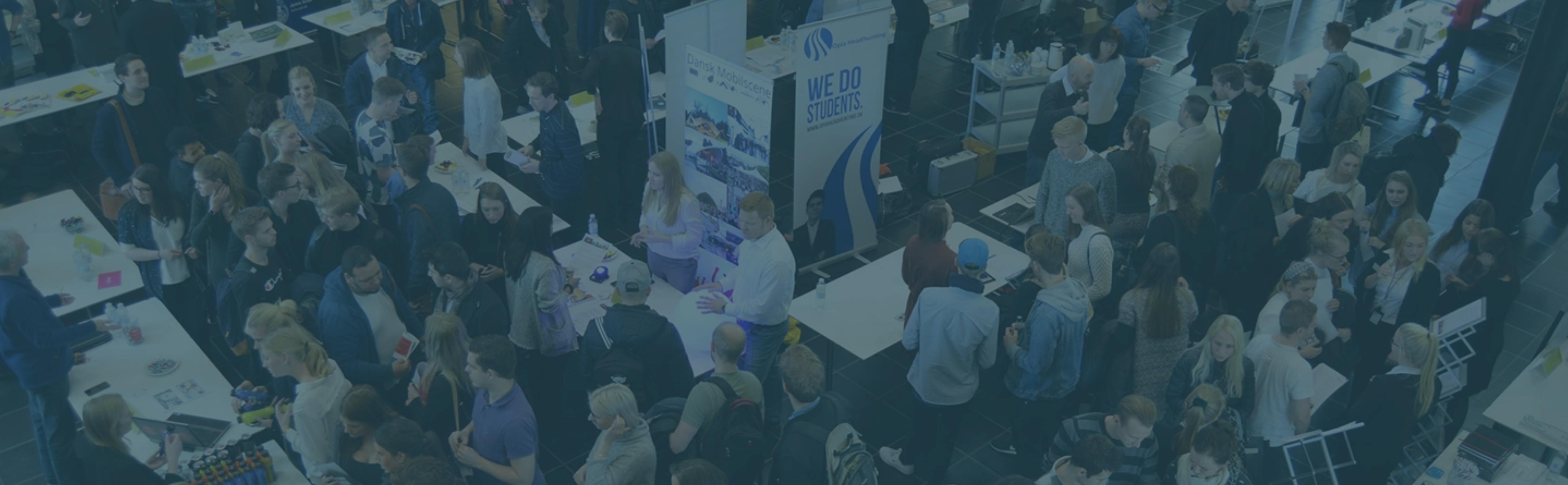
Avancerede  
teknikker  
AR/VR  
Gamification

## 4. semester

Praktik og  
hovedopgave

A photograph of five people in an office environment. Four individuals are seated around a light-colored wooden desk, engaged in a discussion. A man on the left wears a dark blue shirt and glasses, pointing towards a yellow book titled 'Energis' on the desk. Next to him is a woman in a green top. To her right is another man in a light-colored sweater, also looking at the book. A fourth person, a woman with long blonde hair, is seated across the desk from them, facing the group. In the background, there's a whiteboard with some notes and a window showing a view of the outdoors. The overall atmosphere is professional and collaborative.

# PRAKTIK



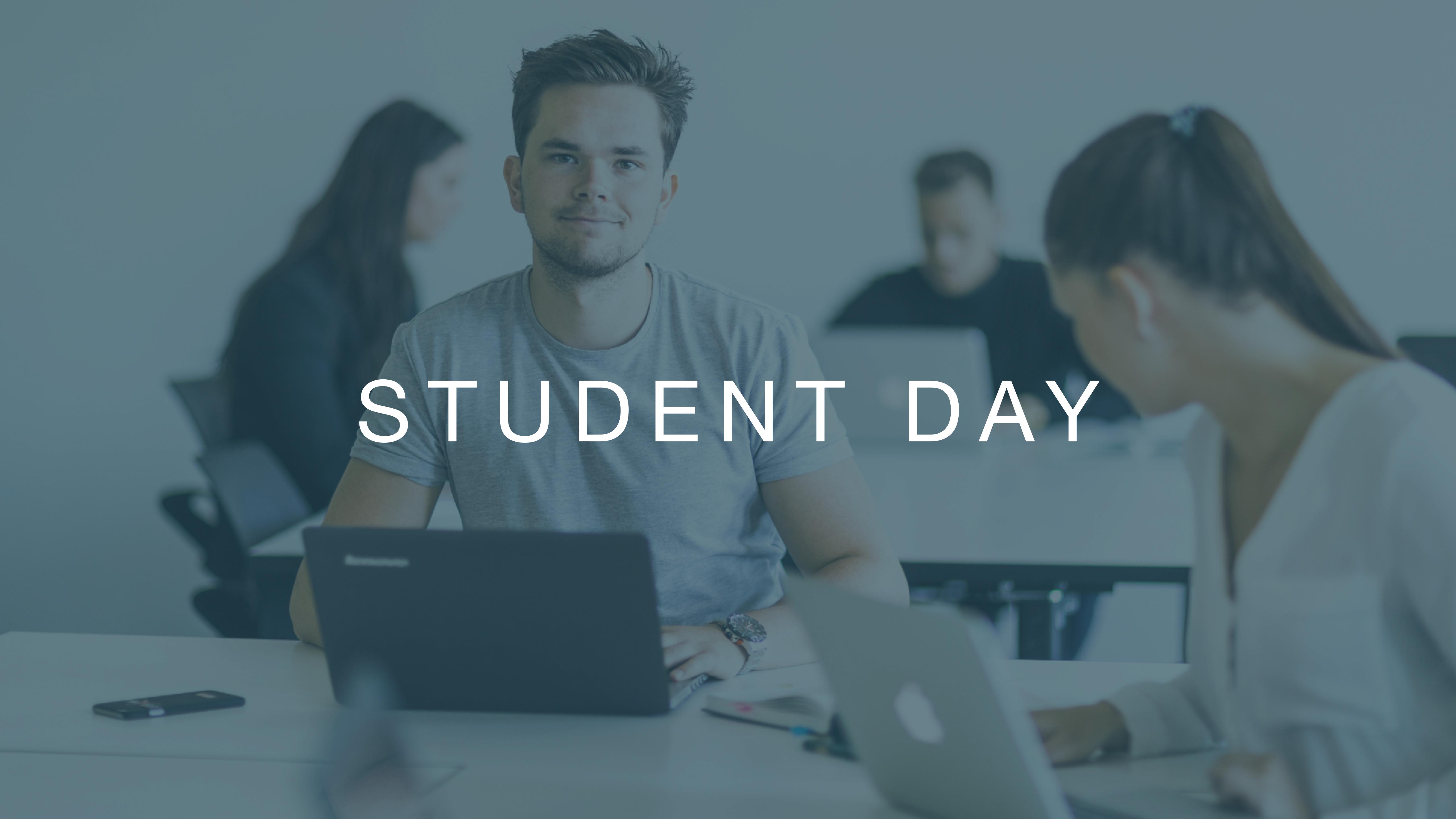
# COMPANY DAY



Aarhus Bryghus  
Abel&co  
Amazing Philippines  
Arriva  
Attention8  
BadaBing Film I/S  
Bands of Tomorrow  
Bedre Nætter  
BoligPortal  
Brandshop  
Buchs  
By Catfish  
Central Asia Tours  
Concept 3  
Creuna  
Cyperhus  
Dansk Supermarked  
DeLuca film  
Den Sociale Retshjælp  
DesignMe  
DGI Østjylland  
Dixon Design

DR Multimedie  
DR-Århus web afd.  
ebay - DBA  
Erhvervshjemmesider.dk  
Ezzence A/S  
Food Festival  
Gaven DK  
Graphic House  
Grundfos  
Hungry.dk  
iDeal Development  
Idea House  
Jyllands-Posten  
Kamstrup A/S  
Kiloo  
Kirkens Korshær  
Komunikado  
Mediehuset, Aarhus  
Minimum A/S  
Minova  
Mobilthink  
Musik Group Denmark

Nodes  
Novicell  
No Zebra  
Optimize2 ApS  
ProShop  
Redweb  
Restaurant2Night  
Salling Group  
Save my Iphone  
Searchmind  
SC Artvertising  
Sinful  
Surge ApS  
TC electronic  
Train  
Unique Models  
Vega Tattoo  
Vero Moda  
Vestas  
Webapoteket  
WebStock  
3F

A group of students are gathered around a table in a classroom. In the foreground, a young man with short brown hair and a light beard, wearing a grey t-shirt, looks directly at the camera with a slight smile. He is sitting at a table with a laptop open in front of him. Behind him, other students are visible, some looking at their phones or laptops. The background is a plain, light-colored wall.

# STUDENT DAY



# JOBPORTAL

[jobportal.eaaa.dk](http://jobportal.eaaa.dk)

# HVERDAGEN

## FULD TIDSSTUDIE

Fordelt på ca. 24 undervisningstimer/uge  
+ forberedelse, opgaver og løbende projekter

## DINE MEDSTUDERENDE

Gennemsnitsalder: 22 år

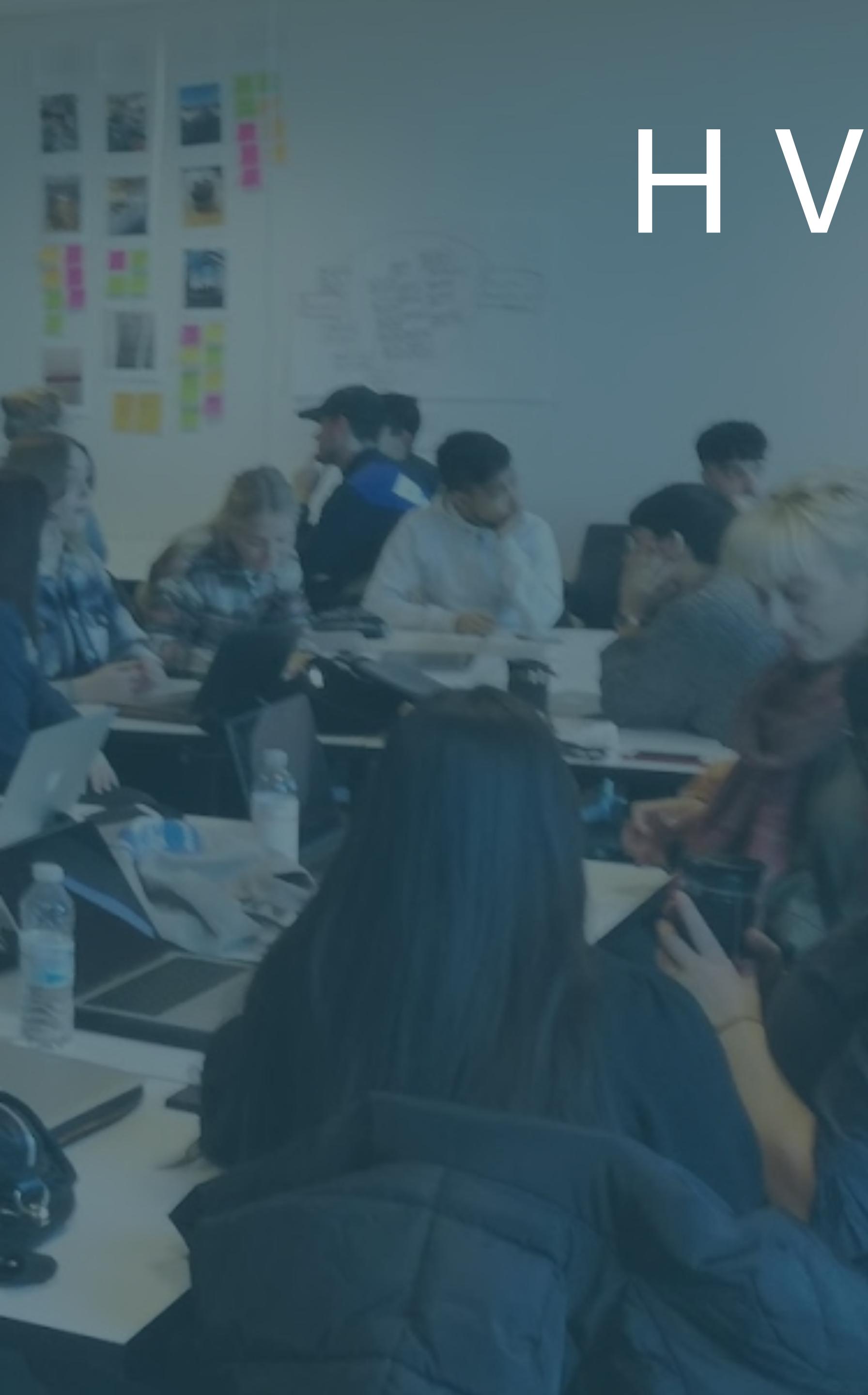
Fordeling: 60 % Kvinder & 40 % mænd

Hands-on studie - praksisnær

Teori og praksis: projektarbejde - hands on  
opgaver

Klasseundervisning

Gruppearbejde og individuelle projekter





# STUDIEMILJØ

Gruppearbejde & hands-on

Cases & problemer fra den virkelige  
verden

Forbindelse mellem teori & praksis

Undervisning der er fokuseret på  
studerende

Socialt læringsmiljø

| Uge 35        |                                |                                       |                                 |  |  |
|---------------|--------------------------------|---------------------------------------|---------------------------------|--|--|
|               | Mandag d. 28 - 08              | Tirsdag d. 29 - 08                    | Onsdag d. 30 - 08               | Torsdag d. 31 - 08                     | Fredag d. 01 - 09  |
| 08:30 - 10:00 | Intro<br>LAES<br>eaa-R104-1.39 | UX & Content<br>LAES<br>eaa-R104-1.39 | Design<br>LARH<br>eaa-R104-1.39 |  | Programmering<br>KIJE<br>eaa-R104-1.39                     |
| 10:30 - 12:00 | Intro<br>LAES<br>eaa-R104-1.39 | UX & Content<br>LAES<br>eaa-R104-1.39 | Design<br>LARH<br>eaa-R104-1.39 |  | Programmering<br>KIJE<br>eaa-R104-1.39                     |
| 12:30 - 14:00 | Intro<br>LAES<br>eaa-R104-1.39 | UX & Content<br>LAES<br>eaa-R104-1.39 | Design<br>LARH<br>eaa-R104-1.39 |  | Programmering<br>KIJE<br>eaa-R104-1.39                     |
| 14:15 - 15:45 |                                |                                       |                                 |  |  |
| Uge 36        |                                |                                       |                                 |  |  |
|               | Mandag d. 04 - 09              | Tirsdag d. 05 - 09                    | Onsdag d. 06 - 09               | Torsdag d. 07 - 09                     | Fredag d. 08 - 09  |
| 08:30 - 10:00 | Felt arbejde                   | UX & Content<br>LAES<br>eaa-R104-1.39 | Design<br>LARH<br>eaa-R104-1.39 | Selvstudie                             | Programmering<br>KIJE<br>eaa-R104-1.39                     |
| 10:30 - 12:00 | Felt arbejde                   | UX & Content<br>LAES<br>eaa-R104-1.39 | Design<br>LARH<br>eaa-R104-1.39 | Selvstudie                             | Programmering<br>KIJE<br>eaa-R104-1.39                     |
| 12:30 - 14:00 | Felt arbejde                   | UX & Content<br>LAES<br>eaa-R104-1.39 | Design<br>LARH<br>eaa-R104-1.39 | Selvstudie                             | Programmering<br>KIJE<br>eaa-R104-1.39                     |
| 14:15 - 15:45 |                                |                                       |                                 |  |  |
| Uge 37        |                                |                                       |                                 |  |  |
|               | Mandag d. 11 - 09              | Tirsdag d. 12 - 09                    | Onsdag d. 13 - 09               | Torsdag d. 14 - 09                     | Fredag d. 15 - 09  |
| 08:30 - 10:00 | Selvstudie                     | UX & Content<br>LAES<br>eaa-R104-1.39 | Design<br>LARH<br>eaa-R104-1.24 | Programmering<br>KIJE<br>eaa-R104-1.39 | Sprint Kick-off<br>LAES<br>eaa-R104-1.38 eaa-R104-1.39     |
| 10:30 - 12:00 | Selvstudie                     | UX & Content<br>LAES<br>eaa-R104-1.39 | Design<br>LARH<br>eaa-R104-1.24 | Programmering<br>KIJE<br>eaa-R104-1.39 | Sprint Kick-off<br>LAES<br>eaa-R104-1.39 eaa-R104-1.38     |
| 12:30 - 14:00 | Selvstudie                     | UX & Content<br>LAES<br>eaa-R104-1.39 | Design<br>LARH<br>eaa-R104-1.24 | Programmering<br>KIJE<br>eaa-R104-1.39 | Sprint Kick-off<br>LAES<br>eaa-R104-1.38 eaa-R104-1.39     |
| 14:15 - 15:45 |                                |                                       |                                 |  |  |
| Uge 38        |                                |                                       |                                 |  |  |
|               | Mandag d. 18 - 09              | Tirsdag d. 19 - 09                    | Onsdag d. 20 - 09               | Torsdag d. 21 - 09                     | Fredag d. 22 - 09  |
| 08:30 - 10:00 | Sprint<br>eaa-R104-1.39        | Sprint<br>eaa-R104-1.39               | Sprint<br>eaa-R104-1.39         | Sprint<br>eaa-R104-1.39                | Sprint<br>LAES<br>eaa-R104-1.39<br>Bemærk:<br>Præsentation |

## Uge 38

|               | Mandag d. 18 - 09                           | Tirsdag d. 19 - 09  | Onsdag d. 20 - 09 | Torsdag d. 21 - 09  | Fredag d. 22 - 09                  |
|---------------|---|---|-------------------|---|------------------------------------|
| 08:30 - 10:00 | Meeting companies outside of Aarhus<br>LSKJ | Informal internship speed dating<br>LSKJ<br>eaa-R104-1.42 eaa-R104-1.01 | Portfolio         | Portfolio<br>MOAB MLBE<br>eaa-R104-1.42                     | Portfolio<br>MNOR<br>eaa-R104-1.42 |
| 10:30 - 12:00 | Meeting companies outside of Aarhus<br>LSKJ | Informal internship speed dating<br>LSKJ<br>eaa-R104-1.01 eaa-R104-1.42 | Portfolio         | Portfolio<br>MLBE MOAB<br>eaa-R104-1.42                     | Portfolio<br>MNOR<br>eaa-R104-1.42 |
| 12:30 - 14:00 | Meeting companies outside of Aarhus<br>LSKJ | Portfolio<br>eaa-R104-1.01 eaa-R104-1.42                                | Portfolio         | Job interviews in a Danish context<br>LSKJ<br>eaa-R104-1.42 | Portfolio                          |
| 14:15 - 15:45 | Meeting companies outside of Aarhus<br>LSKJ |   |                   |   |                                    |
| 16:00 - 18:00 |   |   |                   |   |                                    |

## Uge 39

|               | Mandag d. 25 - 09             | Tirsdag d. 26 - 09                                | Onsdag d. 27 - 09            | Torsdag d. 28 - 09                     | Fredag d. 29 - 09               |
|---------------|-------------------------------|---|------------------------------|--|---------------------------------|
| 08:30 - 10:00 | CV workshops<br>eaa-R104-1.42 | Presentation<br>LSKJ<br>Bemærk:<br>In the Canteen | Portfolio                    | Application workshops<br>eaa-R104-1.42 | Portfolio                       |
| 10:30 - 12:00 | CV workshops<br>eaa-R104-1.42 | Portfolio   | Company day<br>eaa-R104-1.42 | Application workshops<br>eaa-R104-1.42 | Portfolio<br>Bemærk:<br>Hand-in |
| 12:30 - 14:00 | Portfolio                     | Portfolio   | Company day<br>eaa-R104-1.42 | Portfolio                              |                                 |
| 14:15 - 15:45 |                               |   | Company day<br>eaa-R104-1.42 |  |                                 |
| 16:00 - 18:00 |                               |   |                              |  |                                 |

## Uge 40

|               | Mandag d. 02 - 10                              | Tirsdag d. 03 - 10                        | Onsdag d. 04 - 10 | Torsdag d. 05 - 10                             | Fredag d. 06 - 10                              |
|---------------|--|---|-------------------|--|--|
| 08:30 - 10:00 | Webapp (F/UI/UX)<br>MOAB RACE<br>eaa-R104-1.42 | Webapp (F/UI/UX)<br>RACE<br>eaa-R104-1.42 | Webapp (F/UI/UX)  | Webapp (F/UI/UX)<br>RACE MOAB<br>eaa-R104-1.42 | Webapp (F/UI/UX)<br>RACE MOAB<br>eaa-R104-1.42 |
| 10:30 - 12:00 | Webapp (F/UI/UX)<br>RACE MOAB<br>eaa-R104-1.42 | Webapp (F/UI/UX)<br>RACE<br>eaa-R104-1.42 | Webapp (F/UI/UX)  | Webapp (F/UI/UX)<br>MOAB RACE<br>eaa-R104-1.42 | Webapp (F/UI/UX)<br>MOAB RACE<br>eaa-R104-1.42 |
| 12:30 - 14:00 | Webapp (F/UI/UX)<br>MOAB RACE<br>eaa-R104-1.42 | Webapp (F/UI/UX)<br>RACE<br>eaa-R104-1.42 | Webapp (F/UI/UX)  | Webapp (F/UI/UX)<br>RACE MOAB<br>eaa-R104-1.42 | Webapp (F/UI/UX)<br>MOAB RACE<br>eaa-R104-1.42 |
| 14:15 - 15:45 |  |   |                   |  |  |
| 16:00 - 18:00 |  |   |                   |  |  |

# J O B S O M M U L T I M E D I E D E S I G N E R

Frontend & Web Designer

SEO og Webudvikler

Frontendudvikler

Applikationsudvikler

Online Grafiker

Digital Designer

Grafisk Marketing Assistent

UX Specialist

Kommunikationsmedarbejder

Marketingkoordinator

Social Media Manager

Content Creator

Multimediedesigner

Online Specialist

Webmaster/webdesigner

UX/UI Designer



FIND MERE INFORMATION  
PÅ VORES WEBSITE

<https://www.eaaa.dk/videregående-uddannelser/erhvervsakademiuuddannelse/multimediedesigner/>

<https://www.baaa.dk/programmes/multimedia-design/>

# RUNDVISNING PÅ RINGVEJ SYD 104

<https://www.youtube.com/watch?v=KuH96527IRI>

# RUNDVISNING

Kig efter brugergrænseflader

A close-up photograph of a person's hand holding a smartphone. The phone's screen is visible, showing a digital interface with various icons and text. The background is slightly blurred, suggesting a keyboard or other office equipment.

**UI, User Interface** eller **Brugergrænseflade** er alt hvad en bruger kan interagere med for at betjene et digitalt produkt eller en digital tjeneste.

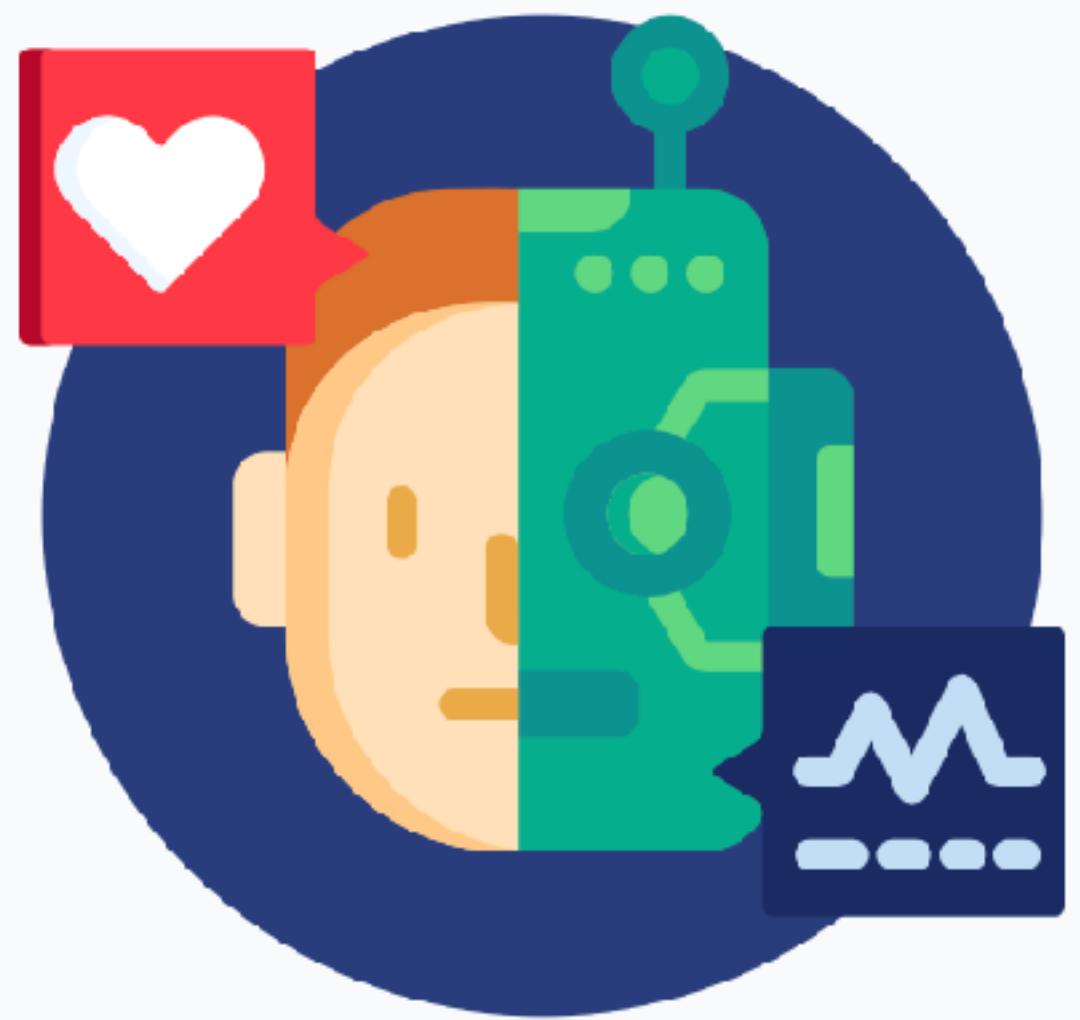
Det inkluderer skærm, touchskræm, knapper, tastatur, mus, lyde og lys.

En **brugergrænseflade** er bindeled mellem et system og dets bruger.

Typisk forbinder vi det med det vi ser: **Grafiske Brugergrænseflader (GUI)**

# UI

User Interface



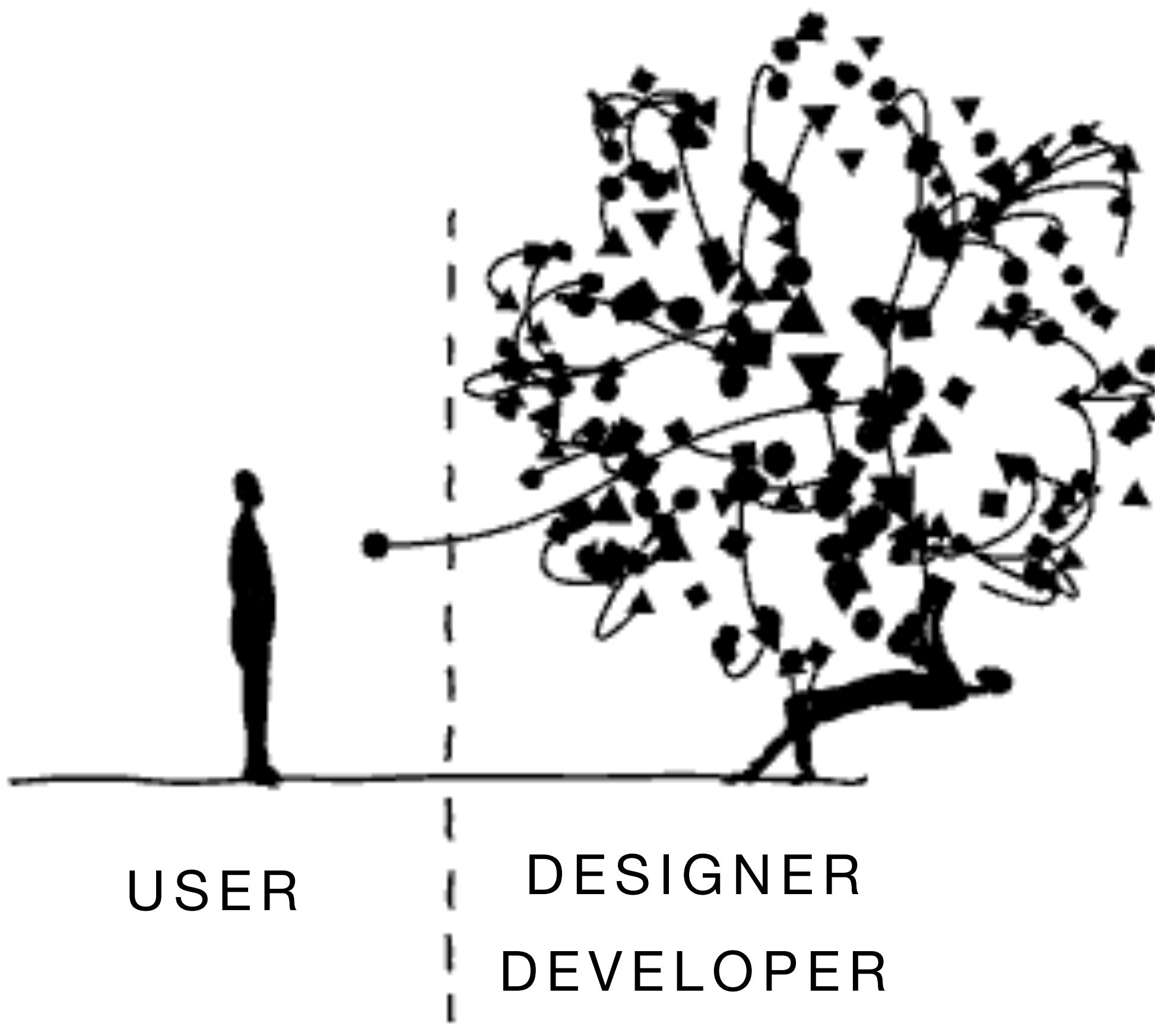
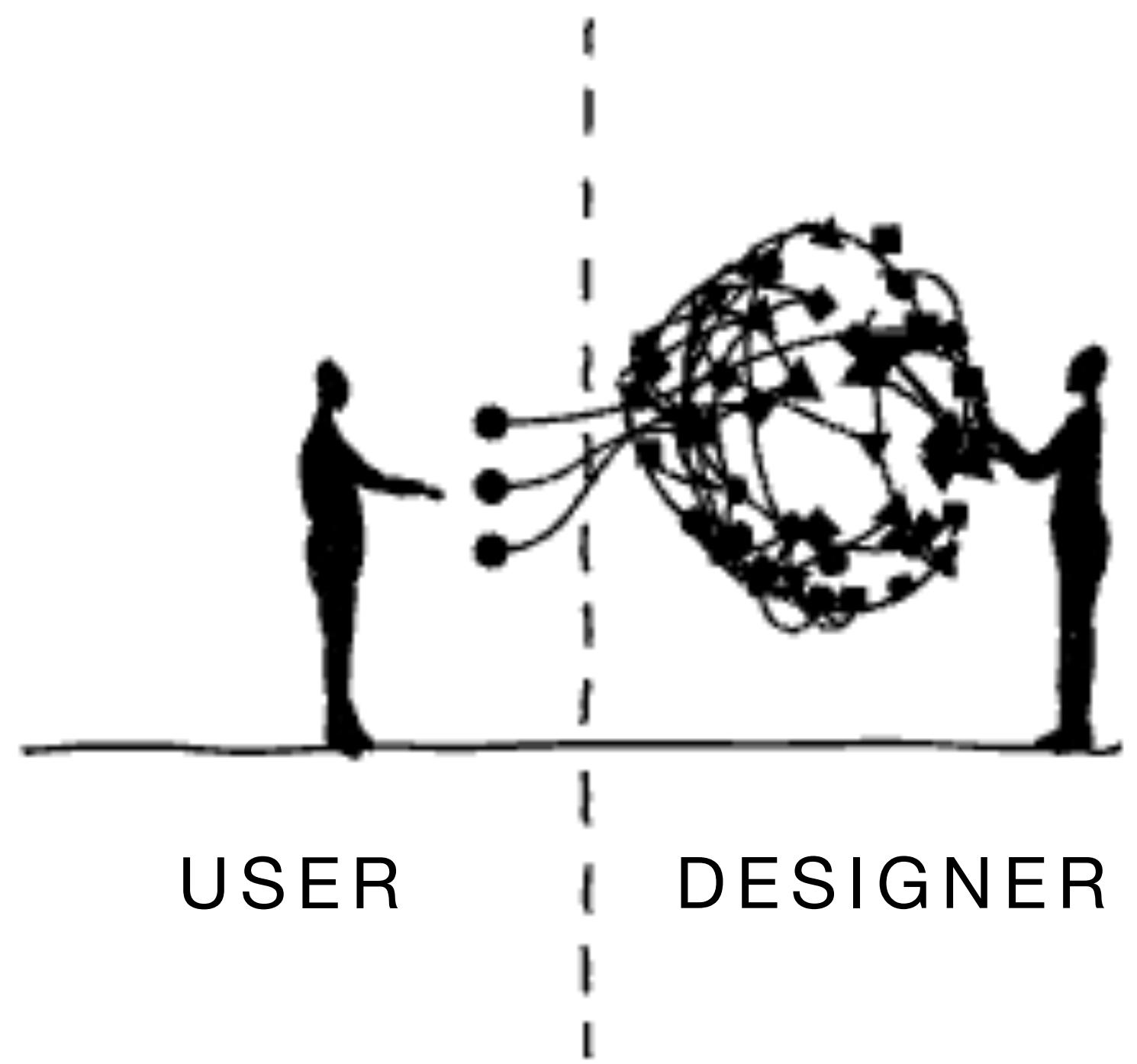
all the ways in which a person can interact with a machine or system; including computerised systems.

# GUI

Graphical User Interface



A subset of user interfaces where the main way the computer systems communicate are through graphics on displays.



# UDDANNESENSES TEKNISKE ELEMENTER

## PROGRAMMERING AF BRUGERGRÆNSEFLADER OG INDHOLD



```
use strict";
const doc = document;
doc.addEventListener("DOMContentLoaded", function() {
  // const postFetchUrl = "http://out.cederdorff.com/wp-json/wp/v2/posts?_embed";
  const postFetchUrl = "http://api.cederdorff.com/wp-json/wp/v2/posts?_embed&categories=2";

  fetch(postFetchUrl)
    .then(function(response) {
      return response.json();
    })
    .then(function(posts) {
      console.log(posts);
      appendClients(posts);
    });

  function appendClients(clients) {
    let html = "";
    for (let i = 0; i < clients.length; i++) {
      let client = clients[i];
      console.log(client);
      if (i % 2 === 0) {
        html += `<div class="col-left even">`;
      } else {
        html += `<div class="col-right even">`;
      }
      html += `<div class="container">`;
      html += `<div class="center">`;
      html += `<h3>${client.title.rendered}</h3>`;
      html += `<p>${client.media_sub_title[0].rendered}</p>`;
      html += `<div class="client-links">`;
      html += `<a href="${client.link.url}" target="_blank">View more <i class="ion-ios-arrow-forward"></i> <a href="#">View less</a> <i class="ion-ios-arrow-forward"></i>`;
      html += `</div>`;
      html += `</div>`;
      html += `</div>`;
    }
    document.body.innerHTML = html;
  }
});
```

# PROGRAMMERING TIL WEB

... ALT DET VI SER I EN BROWSER

Google

google.com

Gmail Billeder Log ind

# Google

Google-søgning Jeg prøver lykken

Google er tilgængelig på: Føroyskt

Danmark

CO2-neutral siden 2007

Om Annoncering Erhverv Sådan fungerer Google Søgning Privatliv Vilkår Indstillinger

Elements Console ↗ 1 ↘ 1 ⚙ ⋮ X

```
<!DOCTYPE html>
<html itemscope itemtype="http://schema.org/WebPage" lang="da">
  <head>...</head>
  <body jsmodel="hspDDf" jsaction="YUC7He:.CLIENT;vPBs3b:.CLIENT;IVKTfe:.CLIENT;KsNBn:.CLIENT;sbTXNb:.CLIENT;xjhTIf:.CLIENT;02vyse:.CLIENT;Ez7VMc:.CLIENT;qqf0n:.CLIENT;me3ike:.CLIENT;IrNywb:.CLIENT;Z94jBf:.CLIENT;A8708b:.CLIENT;YcfJ:.CLIENT;A6SDQe:.CLIENT;LjVEJd:.CLIENT;VM8bg:.CLIENT;hWT9Jb:.CLIENT;WCulWe:.CLIENT;NTJodf:.CLIENT;szjOR:.CLIENT;PY1zjf:.CLIENT;wnJTPd:.CLIENT;JL9QDc:.CLIENT;kWlxhc:.CLIENT;qGMTIf:.CLIENT">
    <style data-iml="1634195875072">...</style>
    ... <div class="L3eUgb" data-hveid="1"> flex == $0
      <div class="o3j99 n1xJcf Ne6nSd">...</div> flex
      <div class="o3j99 LLD4me yr19Zb LS80J">...</div> flex
      <div class="o3j99 ikrT4e om7nvf">...</div>
      <div class="o3j99 qarstb">...</div>
      <div class="o3j99 c93Gbe">...</div>
    </div>
    <div class="Fgvgjc">
      <style data-iml="1634195875111">
        .Fgvgjc{height:0;overflow:hidden}</style>
      <div class="gTMtLb fp-nh" id="lb">...</div>
      <div jscontroller="fKZehd" style="display:none" data-u="0" jsdata="C4mkuf;_;AzQv+I" jsaction="rcuQ6b:npT2md">
      <span style="display:none">...</span>
      <script nonce="4eyH3+1nxzKy0S3HAsRNUA==">...</script>
      <div>...</div>
    </div>
  </div>

```

html body div.L3eUgb

Styles Computed Layout Event Listeners DOM Breakpoints ↗

Filter :hov .cls + [ ]

```
element.style {
}
.L3eUgb {
  display: flex;
  flex-direction: column;
}
```

Erhvervsakademi Aarhus - EAA X +

← → C 🔒 eaaa.dk Incognito :

CANVAS E19FRONT CANVAS EAAA APPS MS OFFICE CURRICULUMS BOOKS

ERHVERVSAKADEMI AARHUS DA / INT

Menu

Videregående uddannelser

Erhvervsakademi- og professionsbachelor-uddannelser med ny teoretisk viden, undervisning på små hold, praktikophold og tæt kontakt til erhvervslivet.

Hvad leder du efter?

Få hjælp til din ansøgning

Find al den info, du skal bruge, når du skal søge ind på en videregående uddannelse

Efteruddannelse og kurser

Få nye kompetencer, du kan bruge i dit job med det samme eller som springbræt videre i karrieren.

Start på en videregående

DA / INT

Elements Console Sources Network Performance Memory Application Security Lighthouse ▲ 1 Settings

Filter :hov .cls

element.style { }

body { min-height: 100vh; overflow: auto visible; background-color: #eaebf1; }

body, html { width: 100%; }

body { margin: 0; font-family: din-2014,-apple-system,BlinkMacSystemFont,Segoe UI,europa,Helvetica Neue,Arial,Noto Sans,sans-serif,Apple Color Emoji,Segoe UI Emoji,Segoe UI Symbol,Noto Color Emoji; font-size: 1.0625rem; font-weight: 300; line-height: 1.41176; color: #000; text-align: left; background-color: #fefefef; }

\* { -webkit-font-smoothing: antialiased; -moz-osx-font-smoothing: grayscale; }

\*, :after, :before { box-sizing: border-box; }

body { display: block; margin: 8px; }

Inherited from html

:root { --yellow: #ffc107; --white: #fff; --black: #000; --primary: #41697e; --secondary: #000; --success: #57b7cb; --info: #e4e6ed; --warning: #ffc107; --danger: #e83443; --gold: #c8a053; --green: #57b7cb; --blue: #41697e; --red: #e83443; --gray-300: #f3f4f7; --gray-400: #e4e6ed; --gray-700: #c3c5c9; --breakpoint-xs: 0; --breakpoint-sm: 400px; --breakpoint-md: 800px; --breakpoint-lg: 1000px; }

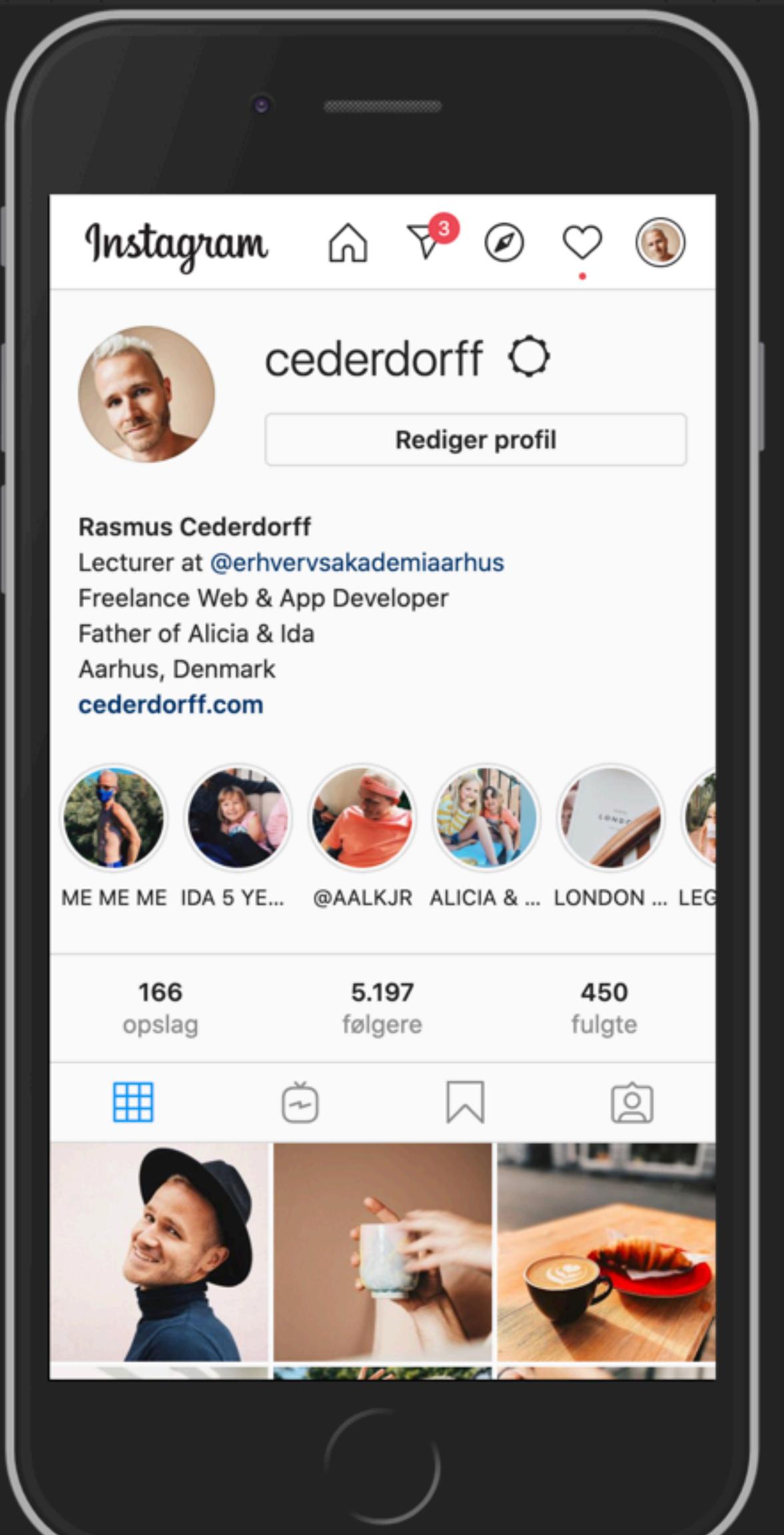
```
<!DOCTYPE html>
<html lang="da">
  <head>...</head>
  <body class=" == $0">
    <div class="cookie-overlay fade" id="cookieDialog" lang="da" dir="ltr" ng-non-bindable name="cookieDialog" style="display: none;">...</div>
    <!-- Google Tag Manager (noscript) -->
    <!-- End Google Tag Manager (noscript) -->
    <div class="main-wrapper">
      <header class="main-header">...</header>
      <div class="main">
        <div class="main-content">
          <div class="umb-element" id="uddannelser">
            <section class="p-default">
              <div class="row v-gutters align-items-stretch">
                <div class="col-12 col-md-6 grid01-item">...</div>
                <div class="col-12 col-md-6 grid01-item">...</div>
              </div>
            </section>
          </div>
          <div class="umb-element">...</div>
          <div class="umb-element" id="band-med-4-aktuelle-budskaber">...</div>
          <div class="umb-element" id="nyheder-title">...</div>
          <div class="umb-element" id="nyheder">...</div>
          <div class="umb-element" id="arrangementer-title">...</div>
          <div class="umb-element" id="arrangementer">...</div>
        </div>
        <div class="main-panel-wrapper">...</div>
        <footer class="main-footer">...</footer>
      </div>
      <script src="/main.20209281.js" defer></script>
      <div id="opacity-layer"></div>
      <iframe name="__uspapiLocator" tabindex="-1" role="presentation" aria-hidden="true" title="Blank" style="display: none; position: absolute; width: 1px; height: 1px; top: -9999px;">...</iframe>
      <iframe tabindex="-1" role="presentation" aria-hidden="true" title="Blank" src="https://consentcdn.cookiebot.com/sdk/bc.min.html" style="position: absolute; width: 1px; height: 1px; top: -9999px;">...</iframe>
      <script type="text/javascript" id="CookiebotCustomScript">...</script>
      <script type="text/javascript" id="...</script>
      <noscript>...</noscript>
      <script type="text/javascript" id="...</script>
      <noscript>...</noscript>
      <script height="0" width="0" style="display: none; visibility: hidden;" src="//6269280.fl.doubleclick.net/activity;src=6269280;type=besgw0;cat=d...cs=G111;audidc=1978665229.1603201714;~oref=https%3A%2F%2Fwww.eaaa.dk%2F?>...</script>
      <script type="text/javascript" id="fbq("trackCustom", "Engagement");</script>
    </body>
</html>
```

Rasmus Cederdorff (@cederdorff) +

← → C 🔒 instagram.com/cederdorff/ Incognito :

CANVAS E19FRONT CANVAS EAAA APPS MS OFFICE CURRICULUMS BOOKS

iPhone 6/7/8 ▾ 375 X 667 100% ▾ Online ▾



The screenshot shows the Instagram profile of Rasmus Cederdorff. At the top, there's a navigation bar with icons for home, direct messages (3 notifications), a leaf, a heart, and a profile picture. Below the bar, the profile header reads "cederdorff" with a verified badge. A "Rediger profil" button is visible. The bio section includes the following text:  
Rasmus Cederdorff  
Lecturer at @erhvervsakademiaaarhus  
Freelance Web & App Developer  
Father of Alicia & Ida  
Aarhus, Denmark  
[cederdorff.com](#)

Below the bio, there are five small profile pictures showing various moments from his life. The statistics below the bio are: 166 opslag, 5.197 følgere, and 450 fulgte.

At the bottom, there are four navigation icons: a grid, a TV, a bookmark, and a camera. Three sample posts are shown: a photo of Rasmus wearing a black beanie, a photo of a hand holding a white mug, and a photo of a coffee cup with latte art.

Elements Console Sources Network Performance Memory Application Security Lighthouse ⚠ 2 ⚙ :

```
<!DOCTYPE html>
<html lang="da" class="js logged-in client-root js-focus-visible sDN5V">
  <head>...</head>
  <body class="style" == $0>
    <div id="react-root">
      <form enctype="multipart/form-data" method="POST" role="presentation">...
      </form>
      <section class="SCxLW o64aR" role="main">
        <div class="v9tJq AAAsh VfzDr">
          <header class="HVbuG">...</header>
          <div class="vDIg">...</div>
          <div class="4bSq7">...</div>
          <ul class="3dEHb">...</ul>
          <div class="fx7hk">...</div>
          <div class="2z6nI">
            <article class="ySN3v">
              <div style="flex-direction: column; padding-bottom: 0px; padding-top: 0px;">
                <div class="Nnq7C weEfm">...</div>
                </div>
              </div>
              <div class="4emnV">...</div>
            </article>
          </div>
        </main>
        <nav class="NXc7H jLuN9">...</nav>
        <footer class="8Rna9 _3Laht" role="contentinfo">...</footer>
      </section>
    </div>
    <script type="text/javascript">window._pendingAdditionalData(["feed"]);</script>
    <link rel="stylesheet" href="/static/bundles/es6/ConsumerUICommons.css/6a9060457779.css" type="text/css" crossorigin="anonymous">
    <link rel="stylesheet" href="/static/bundles/es6/Consumer.css/86e8a84cb4ec.css" type="text/css" crossorigin="anonymous">
    <script type="text/javascript">...</script>
    <script type="text/javascript" src="/static/bundles/es6/Vendor.js/c911f5848b78.js" crossorigin="anonymous"></script>
    <script type="text/javascript" src="/static/bundles/es6/da_DK.js/46c0d9b3257d.js" crossorigin="anonymous"></script>
    <script type="text/javascript" src="/static/bundles/es6/ConsumerLibCommons.js/4d50460379cf.js" crossorigin="anonymous"></script>
    <script type="text/javascript" src="/static/bundles/es6/ConsumerUICommons.js/f3fac56c708f.js" crossorigin="anonymous"></script>
    <script type="text/javascript" src="/static/bundles/es6/ConsumerAsyncCommons.js/c4ca4238a0b9.js" crossorigin="anonymous"></script>
    <script type="text/javascript" src="/static/bundles/es6/Consumer.js/e1e7b108fe2f.js" crossorigin="anonymous" charset="utf-8" async></script>
```

html.js.logged-in-client-root.js-focus-visible.sDN5V body

# WEB TEKNOLOGIER

**HTML**



HTML

STRUCTURE  
CONTENT

**JS**



JAVASCRIPT

FUNCTIONALITY  
BEHAVIOR

**CSS**



CSS

LAYOUT / STYLING  
PRESENTATION

**HTML**



**HTML** the Skeleton



**CSS**



**CSS** the Skin



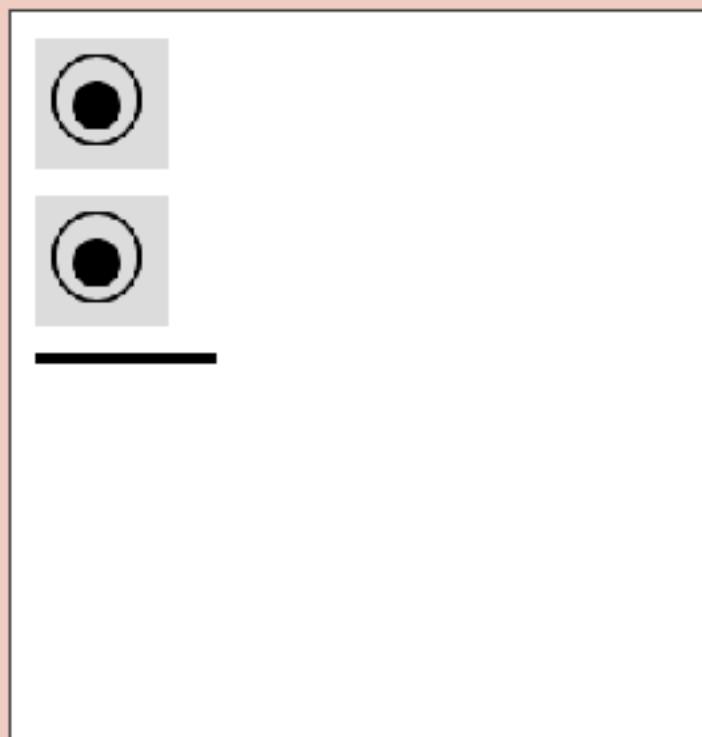
**JS**



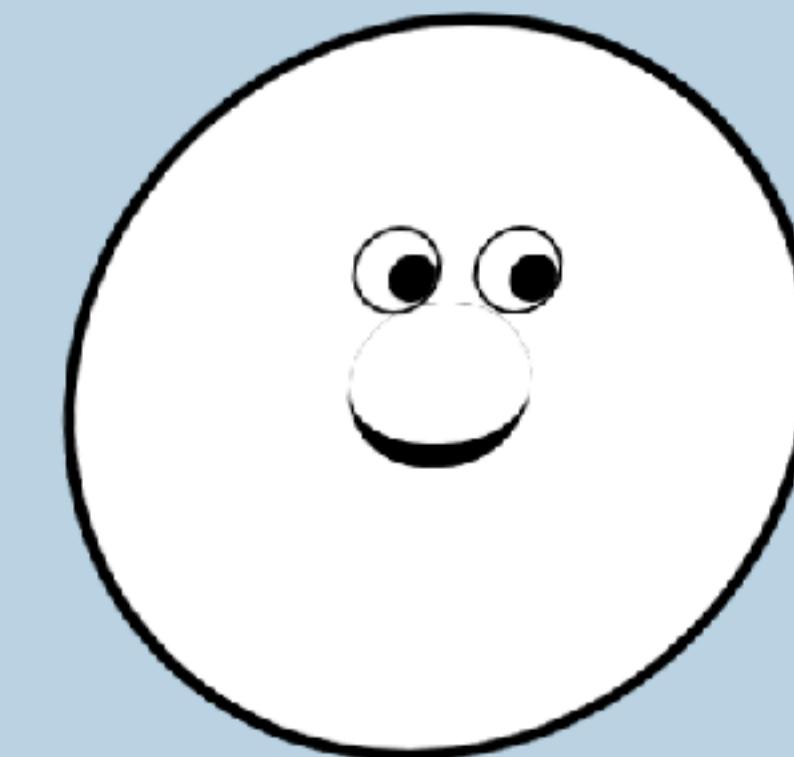
**Javascript** the Brain



## HTML



## HTML + CSS



## HTML + CSS + JS

Click here to PLAY!



# What is HTML?

- Hyper Text Markup Language
- Standard markup language for creating Web pages
- Describes the structure of a Web page
- Consists of a series of elements (tags)
- HTML elements tell the browser how to display the content
- HTML elements can be headings, paragraphs, links, etc.

[https://www.w3schools.com/html/html\\_intro.asp](https://www.w3schools.com/html/html_intro.asp)

```
index.html x
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Page Title</title>
5    </head>
6    <body>
7      <h1>This is a Heading</h1>
8      <p>This is a paragraph.</p>
9    </body>
10   </html>
11
```

# Anatomy of an HTML document

index.html x

Browser Tests

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Page Title</title>
5   </head>
6   <body>
7     <h1>This is a Heading</h1>
8     <p>This is a paragraph.</p>
9   </body>
10 </html>
```

< > ⌂

https://9nypo.csb.app/

# This is a Heading

This is a paragraph.

```
index.html ×  
1  <!DOCTYPE html>  
2  <html>  
3    <head>  
4      <title>Page Title</title>  
5    </head>  
6    <body>  
7      <h1>This is a Heading</h1>  
8      <p>This is a paragraph.</p>  
9    </body>  
10   </html>  
11
```

The `<!DOCTYPE html>` declaration defines that this document is an HTML5 document

The `<html>` element is the root element of an HTML page

The `<head>` element contains meta information about the HTML page

The `<title>` element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)

The `<body>` element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.

The `<h1>` element defines a large heading

The `<p>` element defines a paragraph

index.html

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Page Title</title>
5    </head>
6    <body>
7      <h1>This is a Heading</h1>
8      <p>This is a paragraph.</p>
9    </body>
10   </html>
```

```
<html>

  <head>
    <title>Page title</title>
  </head>

  <body>
    <h1>This is a heading</h1>
    <p>This is a paragraph.</p>
    <p>This is another paragraph.</p>
  </body>

</html>
```

# The Purpose of the Browser

... to read HTML documents and display them correctly. The browsers use HTML elements (also called tags) to determine how to display the HTML documents and their content.



```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Page Title</title>
5    </head>
6    <body>
7      <h1>This is a Heading</h1>
8      <p>This is a paragraph.</p>
9    </body>
10   </html>
```

# This is a Heading

This is a paragraph.

index.html

styles.css

Browser Tests

```
1 body {  
2   font-family: Helvetica, Arial, sans-serif;  
3   text-align: center;  
4 }  
5
```

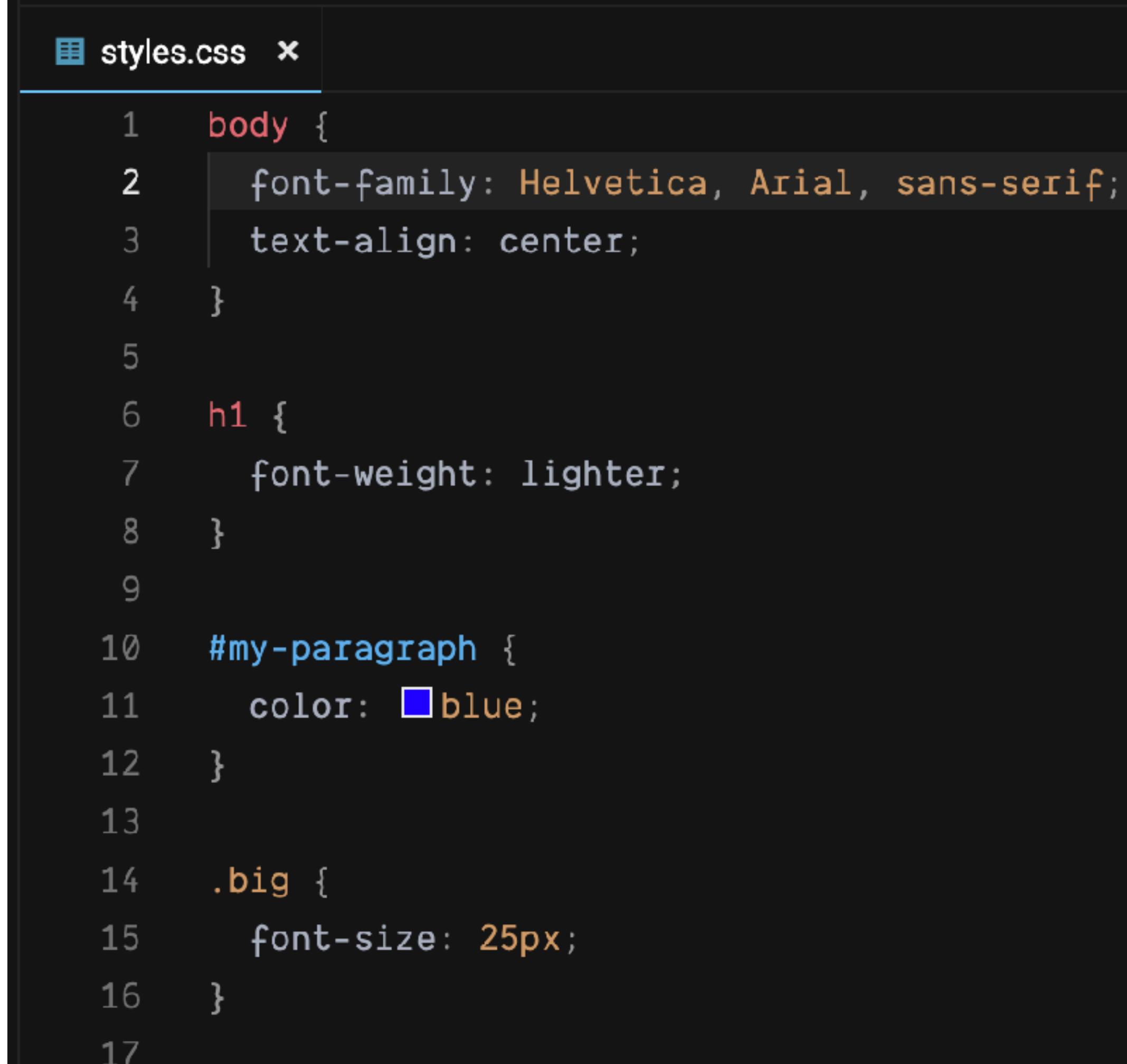
< > ⌂ https://9nypo.csb.app/

# This is a Heading

This is a paragraph.

# WHAT IS CSS?

- **CSS** stands for **Cascading Style Sheets**
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS **saves a lot of work**. It can control the layout of multiple web pages all at once
- External stylesheets are stored in **CSS files**



```
1 body {  
2     font-family: Helvetica, Arial, sans-serif;  
3     text-align: center;  
4 }  
5  
6 h1 {  
7     font-weight: lighter;  
8 }  
9  
10 #my-paragraph {  
11     color: blue;  
12 }  
13  
14 .big {  
15     font-size: 25px;  
16 }  
17
```

CSS Introduction

w3schools.com/css/css\_intro.asp

Incognito

HTML CSS JAVASCRIPT SQL PYTHON PHP BOOTSTRAP MORE REFERENCES CERTIFICATES

COLOR PICKER

SHOP

HOW TO

Tabs  
Dropdowns  
Accordions  
Side Navigation  
Top Navigation  
Modal Boxes  
Progress Bars  
Parallax  
Login Form  
HTML Includes  
Google Maps  
Range Sliders  
Tooltips  
Slideshow  
Filter List  
Sort List

## CSS Tutorial

- CSS HOME
- CSS Introduction**
- CSS Syntax
- CSS Selectors
- CSS How To
- CSS Comments
- CSS Colors
- CSS Backgrounds**
- CSS Borders
- CSS Margins
- CSS Padding
- CSS Height/Width
- CSS Box Model
- CSS Outline
- CSS Text
- CSS Fonts
- CSS Icons
- CSS Links
- CSS Lists
- CSS Tables
- CSS Display
- CSS Max-width
- CSS Position
- CSS Overflow
- CSS Float

# Welcome to My Homepage

Use the menu to select different Stylesheets

**Stylesheet 1**

Stylesheet 2

Stylesheet 3

Stylesheet 4

No Stylesheet

## Same Page Different Stylesheets

This is a demonstration of how different stylesheets can change the layout of your HTML page. You can change the layout of this page by selecting different stylesheets in the menu, or by selecting one of the following links:

[Stylesheet1](#), [Stylesheet2](#), [Stylesheet3](#), [Stylesheet4](#).

## No Styles

This page uses DIV elements to group different sections of the HTML page. Click here to see how the page looks like with no stylesheet:

[No Stylesheet](#).

**Side-Bar**

Lore ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

< index.html x

Browser Tests

1 <!DOCTYPE html>  
2 <html>  
3 <head>  
4 <title>Page Title</title>  
5 <link rel="stylesheet" href="styles.css" />  
6 </head>  
7 <body>  
8 <h1>This is a Heading</h1>  
9 <p>This is a paragraph.</p>  
10 </body>  
11 </html>  
12

https://9nypo.csb.app/

This is a Heading  
This is a paragraph.

styles.css x

1 body {  
2 font-family: Helvetica, Arial, sans-serif;  
3 text-align: center;  
4 }  
5  
6 h1 {  
7 font-weight: lighter;  
8 }  
9

index.html x

Browser Tests

```
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>Page Title</title>
5          <link rel="stylesheet" href="styles.css" />
6      </head>
7      <body>
8          <h1>This is a Heading</h1>
9          <p>This is a paragraph.</p>
10         <p id="my-paragraph">This is another paragraph.</p>
11     </body>
12 </html>
13
```

< > ⌂ https://9nypo.csb.app/

This is a Heading

This is a paragraph.

This is another paragraph.

styles.css x

```
1  body {
2      font-family: Helvetica, Arial, sans-serif;
3      text-align: center;
4  }
5
6  h1 {
7      font-weight: lighter;
8  }
9
10 #my-paragraph {
11     color: blue;
12 }
```

index.html

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Page Title</title>
5     <link rel="stylesheet" href="styles.css" />
6   </head>
7   <body>
8     <h1>This is a Heading</h1>
9     <p>This is a paragraph.</p>
10    <p id="my-paragraph">This is another paragraph.</p>
11    <p class="big">This is another paragraph.</p>
12  </body>
13 </html>
14
```

styles.css

```
1 body {
2   font-family: Helvetica, Arial, sans-serif;
3   text-align: center;
4 }
5
6 h1 {
7   font-weight: lighter;
8 }
9
10 #my-paragraph {
11   color: blue;
12 }
13
14 .big {
15   font-size: 25px;
16 }
```

Browser Tests

https://9nypo.csb.app/

This is a Heading

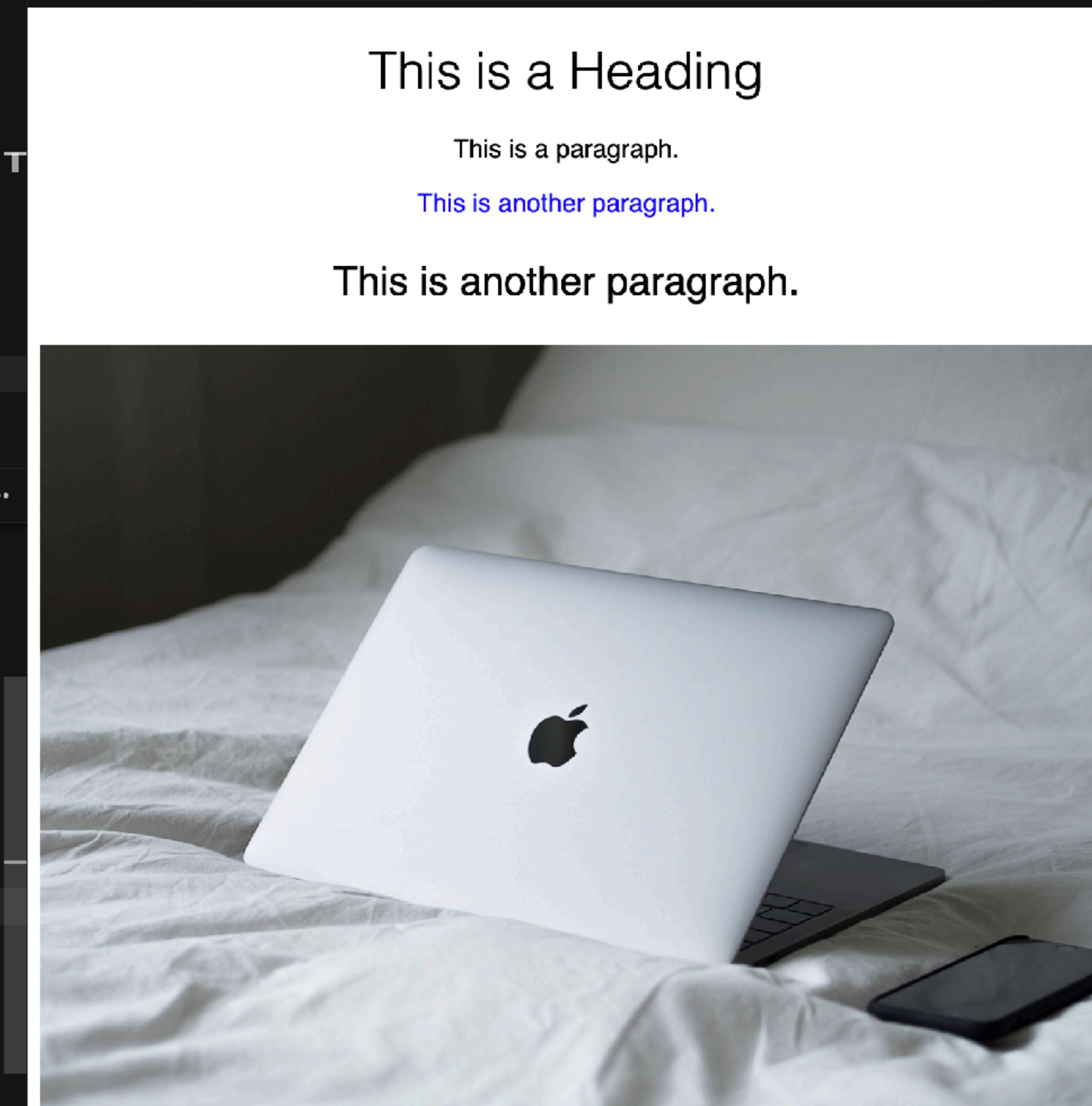
This is a paragraph.

This is another paragraph.

This is another paragraph.

```
index.html < > C https://9nypo.csb.app/ Browser Tests  
1  <!DOCTYPE html>  
2  <html>  
3  <head>  
4  <title>Page Title</title>  
5  <link rel="stylesheet" href="styles.css" />  
6  </head>  
7  <body>  
8  <h1>This is a Heading</h1>  
9  <p>This is a paragraph.</p>  
10 <p id="my-paragraph">This is another paragraph.</p>  
11 <p class="big">This is another paragraph.</p>  
12   
13 </body>  
14 </html>
```

```
styles.css < ...  
9  
10 #my-paragraph {  
11   color: blue;  
12 }  
13  
14 .big {  
15   font-size: 25px;  
16 }  
17  
18 img {  
19   width: 100%;  
20 }
```



# CSS SELECTORS

CSS selectors are used to "find" (or select) the HTML elements you want to style.

Simple selectors (name, id, class)

Combinator selectors (a specific relationship between them)

Pseudo-class selectors (a certain state)

Pseudo-elements selectors (a part of an element)

Attribute selectors (attribute or attribute value)

# GETTING STARTED

1. Go to: <https://codesandbox.io/>
2. Sign In
3. Open this project: <https://codesandbox.io/s/html-css-javascript-starter-whlnu>
4. Add a paragraph.
5. Add styling (CSS).
6. Center all elements (text-align: center)
7. Change the color and font size.
8. Add an image (<img>)
9. Set/ change the width of the image.

```
index.html
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Page Title</title>
5     <link rel="stylesheet" href="styles.css" />
6   </head>
7   <body>
8     <h1>This is a Heading</h1>
9     <p>This is a paragraph.</p>
10    <p id="my-paragraph">This is another paragraph.</p>
11    <p class="big">This is another paragraph.</p>
12  </body>
13 </html>
14
```

```
styles.css
1 body {
2   font-family: Helvetica, Arial, sans-serif;
3   text-align: center;
4 }
5
6 h1 {
7   font-weight: lighter;
8 }
9
10 #my-paragraph {
11   color: blue;
12 }
13
14 .big {
15   font-size: 25px;
16 }
```

# S O L U T I O N

<https://codesandbox.io/s/html-css-javascript-9nypo>

# Grid & Flexbox

... two CSS layout models that can be used to create layouts with just a couple of CSS rules.

... responsive and flexible layouts.

# CSS Grids

**CSS Grid Teachers**

| Column 1   | Column 2  | Column 3  |
|--|---|---|
| Birgitte Kirk Iversen<br>Senior Lecturer<br><a href="mailto:hki@mail.dk">hki@mail.dk</a> | Martin Aagaard Nøhr<br>Lecturer<br><a href="mailto:mnor@mail.dk">mnor@mail.dk</a> | Peter Lind<br>Senior Lecturer<br><a href="mailto:peli@kua.dk">peli@kua.dk</a> |
| Column 4   | Column 5  | Column 6  |
| Column 7   | Column 8  | Column 9  |

**Header**

Column 1      Column 2      Column 3

Footer

**Amerikanske chocolate chip cookies**

**Cookies**

Klassiske amerikanske cookies - spredt udenpå og bløde indeni... Og hvis der er noget de virkelig kan, derover på den anden side af atlanten, så er det at bage cookies. Om vi kalder dem Chocolate chip cookies eller bare Cookies, ger nok ikke den store forskel. Der er chokoladestykker i - og de smager prægtfuldt. Prøv denne opskrift på den perfekte Chocolate chip cookie, næste gang kiksersluten banker på døren!

**Ingredienser**

**Cookies**

- Blædt smør, sukker, brun farrin, vanille og æg godt sammen.
- Sukker, jæt. 1½ dl 125 g
- Brun farrin, jæt. 1½ dl 125 g
- Vaniljebulle, 2 stk
- Æg, 1
- Hvedemel (ca. 4½ dl), 250 g
- Natur, 1 tsks
- Græn salt, ¼ tsks
- Bagpulver, ½ tsks

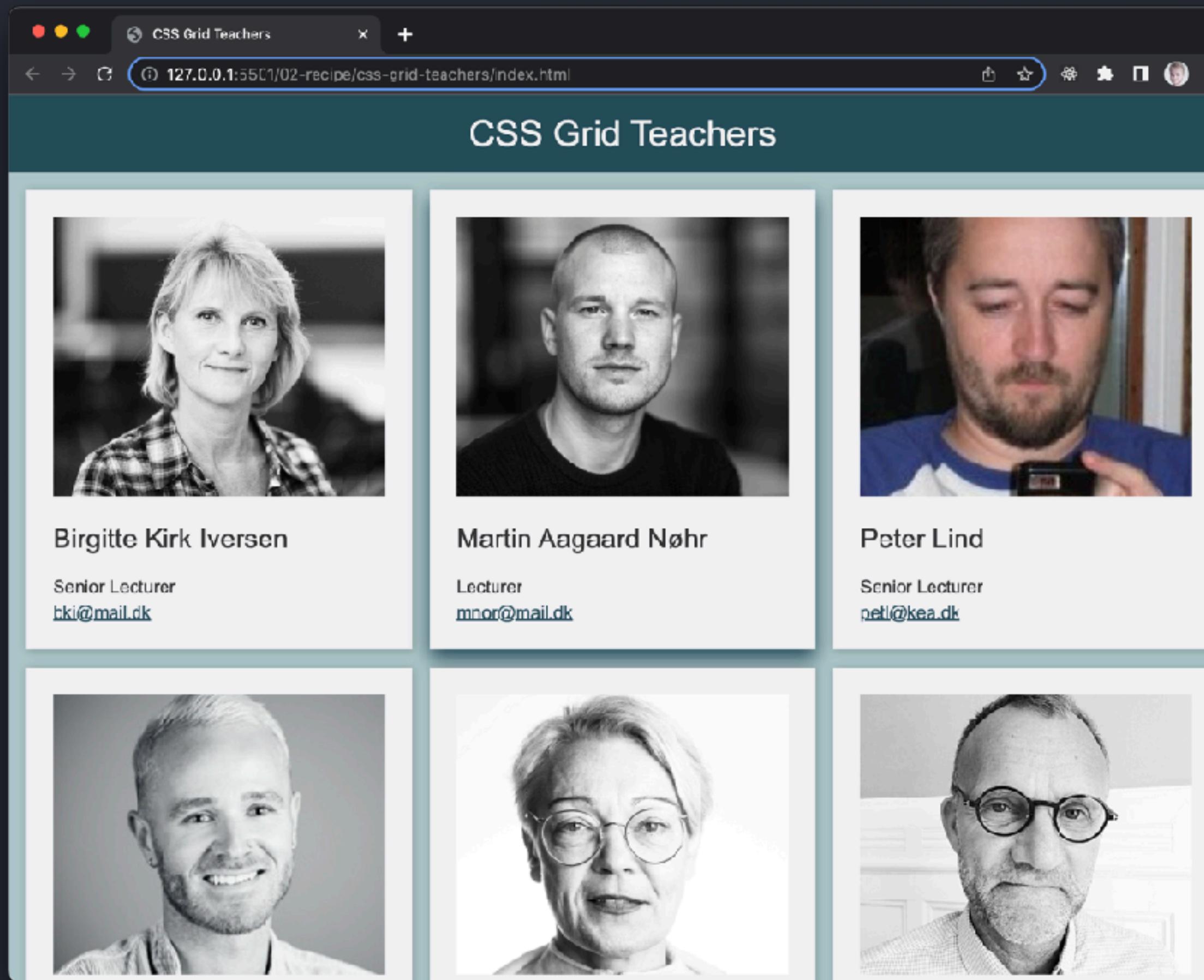
**Sådan gør du**

**Cookies**

1. Pak smør, sukker, brun farrin, vanille og æg godt sammen.
2. Bland hvedemel, natur, salt og bagpulver og vær det i smørblandingen sammen med chokolade.
3. Del degen i 20 stykker à ca. 45 g og form dem til kugler.
4. Sat kuglerne på plader med bagpapir - tryk dem let flate. Kagejæt fylder en del ud, så seg for, at der er god plads imellem dem.
5. Bag kuglerne til da er pydte, men bløde i midten.
6. Lad kagejæt afkøle ca. 6 min. på bagpladen og flyt dem så over på en rist.

**Bagtid**

# CSS Grid



```
<section class="grid-container">...</section>

/* ----- grid container styling ----- */
.grid-container {
  display: grid;
  grid-template-columns: 1fr;
  gap: 1em;
  padding: 1em;
}

@media (min-width: 600px) {
  .grid-container {
    grid-template-columns: 1fr 1fr;
  }
}

@media (min-width: 992px) {
  .grid-container {
    grid-template-columns: 1fr 1fr 1fr;
  }
}
```

w CSS Templates

w3schools.com/css/css\_templates.asp

HTML CSS JAVASCRIPT SQL PYTHON PHP BOOTSTRAP HOW TO W3.CSS JAVA JQUERY C++

CSS Multiple Columns  
CSS User Interface  
CSS Variables  
CSS Box Sizing  
CSS Media Queries  
CSS MQ Examples  
CSS Flexbox

**CSS Layout Templates**

We have created some responsive starter templates with CSS.

You are free to modify, save, share, and use them in all your projects.

Header, equal columns and footer:

Try it (using float) »

Try it (using flexbox) »

Try it (using grid) »

Header, unequal columns and footer:

Try it (using float) »

Try it (using flexbox) »

Try it (using grid) »

Topnav, content and footer:

Sidenav and content:

NetSikker inkluderet  
sikrer dig hjælp ved digitale krænkelser  
Se vilkår på telenor.dk

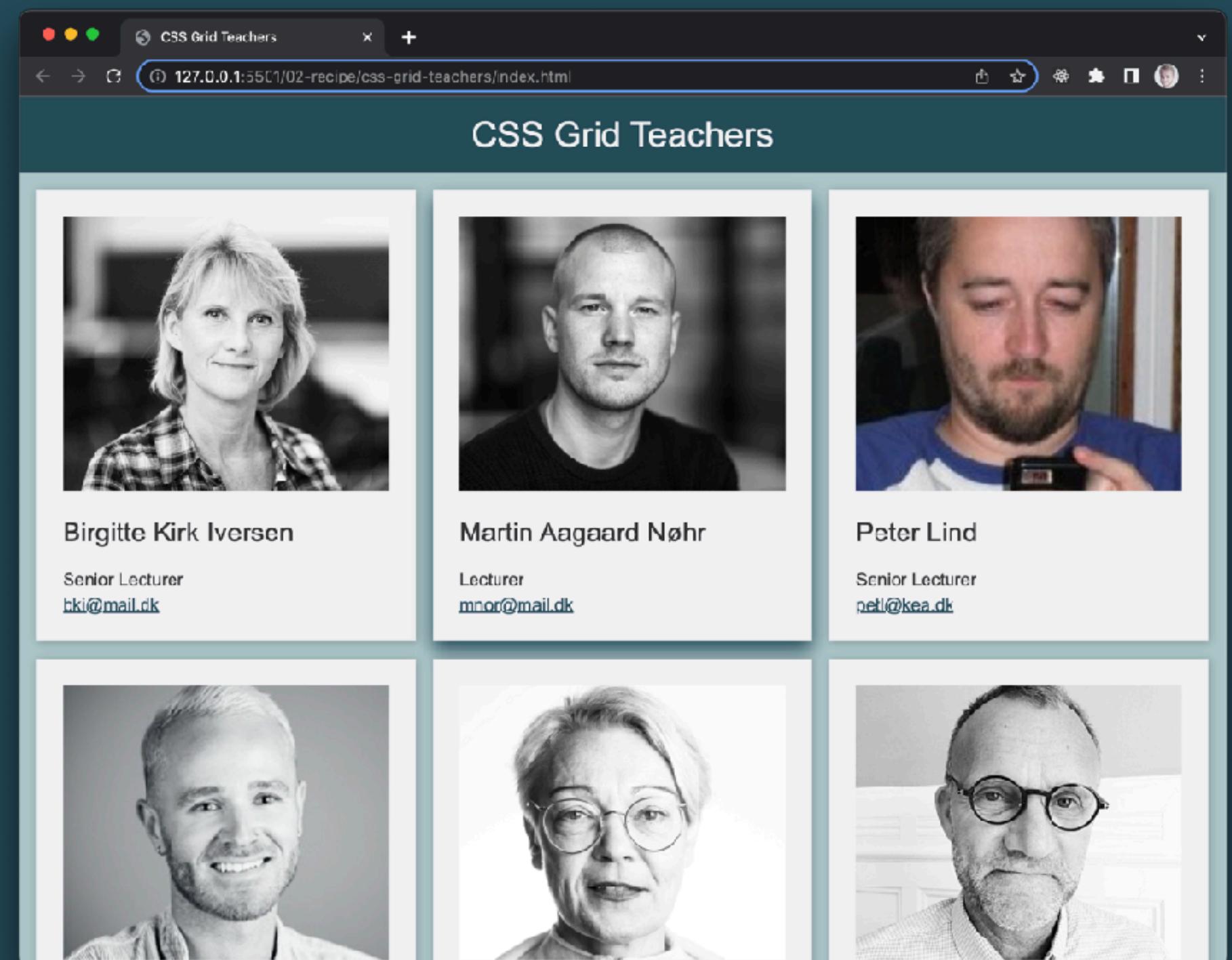
NEW  
We just launched W3Schools videos  
Explore now

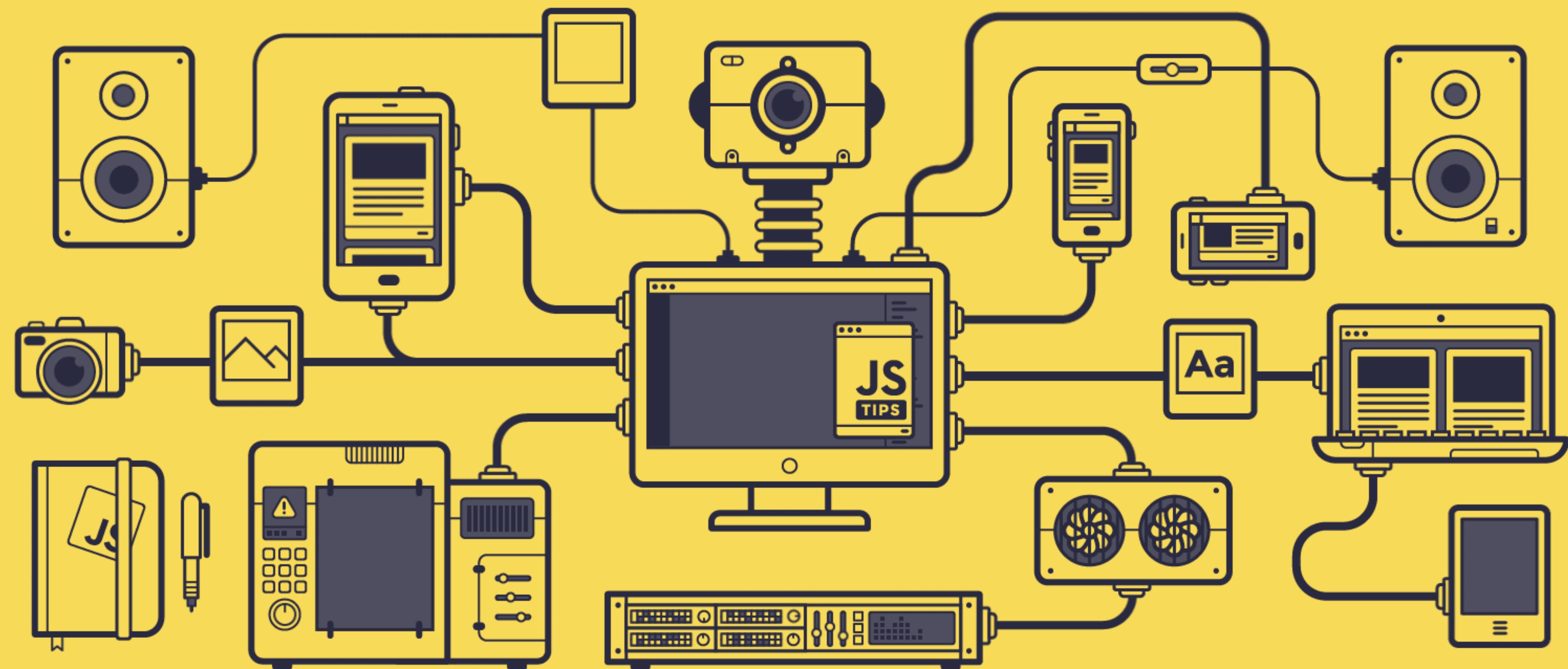
COLOR PICKER

LIKE US

# GRID TEACHERS

1. Åben og brug denne skabelon: <https://codesandbox.io/s/grid-teachers-template-vdimm>
2. Centrer overskriften (h1)
3. Tilføj to underviser mere fra <https://www.eaaa.dk/kontakt/find-medarbejder/>
4. Tilføj en baggrundsfarve på fx body
5. Ændre vægtningen på overskrifter (font-weight) på fx h1 og h2)
6. Tilpas farven på alle links (a)
7. Tilpas anden styling (css). Se fx: <https://www.w3schools.com/css/>







```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Page Title</title>
5      <link rel="stylesheet" href="styles.css" />
6    </head>
7    <body>
8      <h1>This is a Heading</h1>
9      <p>This is a paragraph.</p>
10     <button>Try me</button>
11     <script src="app.js"></script>
12   </body>
13 </html>
```



```
1  function changeMyWebsite() {
2    document.body.style.backgroundColor = "red";
3    document.body.style.color = "white";
4    document.querySelector("h1").innerHTML = "My new header";
5    alert("Hi, Welcome to my web app!");
6  }
7
8  document.querySelector("button").addEventListener("click", changeMyWebsite);
9  |
```

< > ⌛ https://brg12.csb.app/

# This is a Heading

This is a paragraph.

Try me

# What is JavaScript?

- The world's most popular programming language.
- The programming language of the Web.
- Easy to learn.
- Can change content of a webpage (HTML content).
- Can change styling of HTML.

index.html x

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Page Title</title>
5     <link rel="stylesheet" href="styles.css" />
6   </head>
7   <body>
8     <h1>This is a Heading</h1>
9     <p>This is a paragraph.</p>
10    <button>Try me</button>
11    <script src="app.js"></script>
12  </body>
13</html>
```

js app.js x

```
1 function changeMyWebsite() {
2   document.body.style.backgroundColor = "red";
3   document.body.style.color = "white";
4   document.querySelector("h1").innerHTML = "My new header";
5   alert("Hi, welcome to my web app!");
6 }
7
8 document.querySelector("button").addEventListener("click", changeMyWebsite);
9
```

The screenshot shows a code editor interface with two open files: `index.html` and `app.js`. The `index.html` file contains the following HTML code:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <link rel="stylesheet" href="styles.css" />
  </head>
  <body>
    <h1>This is a Heading</h1>
    <p>This is a paragraph.</p>
    <input type="text" placeholder="Type your name" id="name" />
    <button>Try me</button>
    <script src="app.js"></script>
  </body>
```

The `app.js` file contains the following JavaScript code:

```
function alertName() {
  const name = document.querySelector("input").value;
  alert("Hi, " + name + "! Welcome to my web app!");
}

document.querySelector("button").addEventListener("click", alertName);
```

Browser Tests Terminal

< > ⌂ https://brg12.csb.app/

# This is a Heading

This is a paragraph.

Type your name

Try me

<https://codesandbox.io/s/javascript-input-okm7e>

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <link rel="stylesheet" href="styles.css" />
  </head>
  <body>
    <h1>This is a Heading</h1>
    <p>This is a paragraph.</p>
    <input type="text" placeholder="Type your name" id="name" />
    <button>Try me</button>
    <section id="content"></section>
    <script src="app.js"></script>
  </body>
```

This is a Heading

This is a paragraph.

Rasmus Cederdorff

Try me

Rasmus Cederdorff

```
function displayName() {
  const name = document.querySelector("input").value;
  document.querySelector("#content").insertAdjacentText("beforeend", name);
}

document.querySelector("button").addEventListener("click", displayName);
```

# DOM MANIPULATION

```
// declaring a variable with a value
let message = "Hi Frontenders!"

//accessing the variable and logging it to the console
console.log(message);

// appending the variable (the string) to the DOM element #content
document.querySelector("#content").innerHTML = message;
```

```
<body>
  <header>
    <h1>PROJECT TEMPLATE</h1>
  </header>
  <section id="content"></section>
  <!-- main is file -->
  <script src="js/main.js"></script>
</body>
```



JavaScript Introduction × +

w3schools.com/js/js\_intro.asp Incognito :

Home HTML CSS **JAVASCRIPT** SQL PYTHON PHP BOOTSTRAP MORE ▾ REFERENCES ▾ CERTIFICATES ⏎ ⏎ ⏎ 🔍

JS Tutorial JS HOME JS Introduction JS Where To JS Output JS Statements JS Syntax JS Comments JS Variables JS Operators JS Arithmetic JS Assignment JS Data Types JS Functions JS Objects JS Events JS Strings JS String Methods JS Numbers JS Number Methods JS Arrays JS Array Methods JS Array Sort JS Array Iteration JS Dates JS Date Formats JS Date Get Methods

## JavaScript Can Change HTML Attribute Values

In this example JavaScript changes the value of the `src` (source) attribute of an `<img>` tag:

The Light Bulb

Turn on the light Turn off the light

Try it Yourself »

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Progress Bars Parallax Login Form HTML Includes Google Maps Range Sliders Tooltips Slideshow Filter List Sort List

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CERTIFICATES

HTML CSS JavaScript Python SQL PHP And more

index.html x

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Page Title</title>
5     <link rel="stylesheet" href="styles.css" />
6   </head>
7   <body>
8     <h1>This is a Heading</h1>
9     <p>This is a paragraph.</p>
10    <button>Try me</button>
11    <script src="app.js"></script>
12  </body>
13</html>
14
```

js app.js x

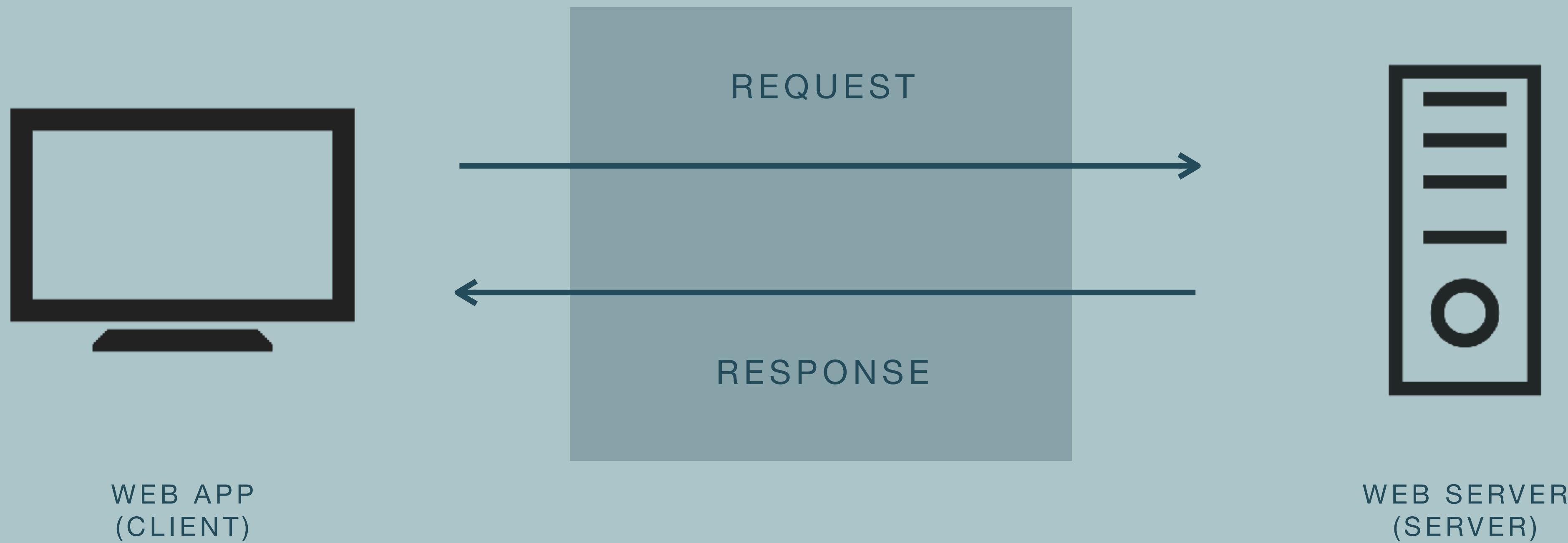
```
1 function changeMyWebsite() {
2   document.body.style.backgroundColor = "red";
3   document.body.style.color = "white";
4   document.querySelector("h1").innerHTML = "My new header";
5   alert("Hi, welcome to my web app!");
6 }
7
8 document.querySelector("button").addEventListener("click", changeMyWebsite);
9
```

# With JavaScript we are able to

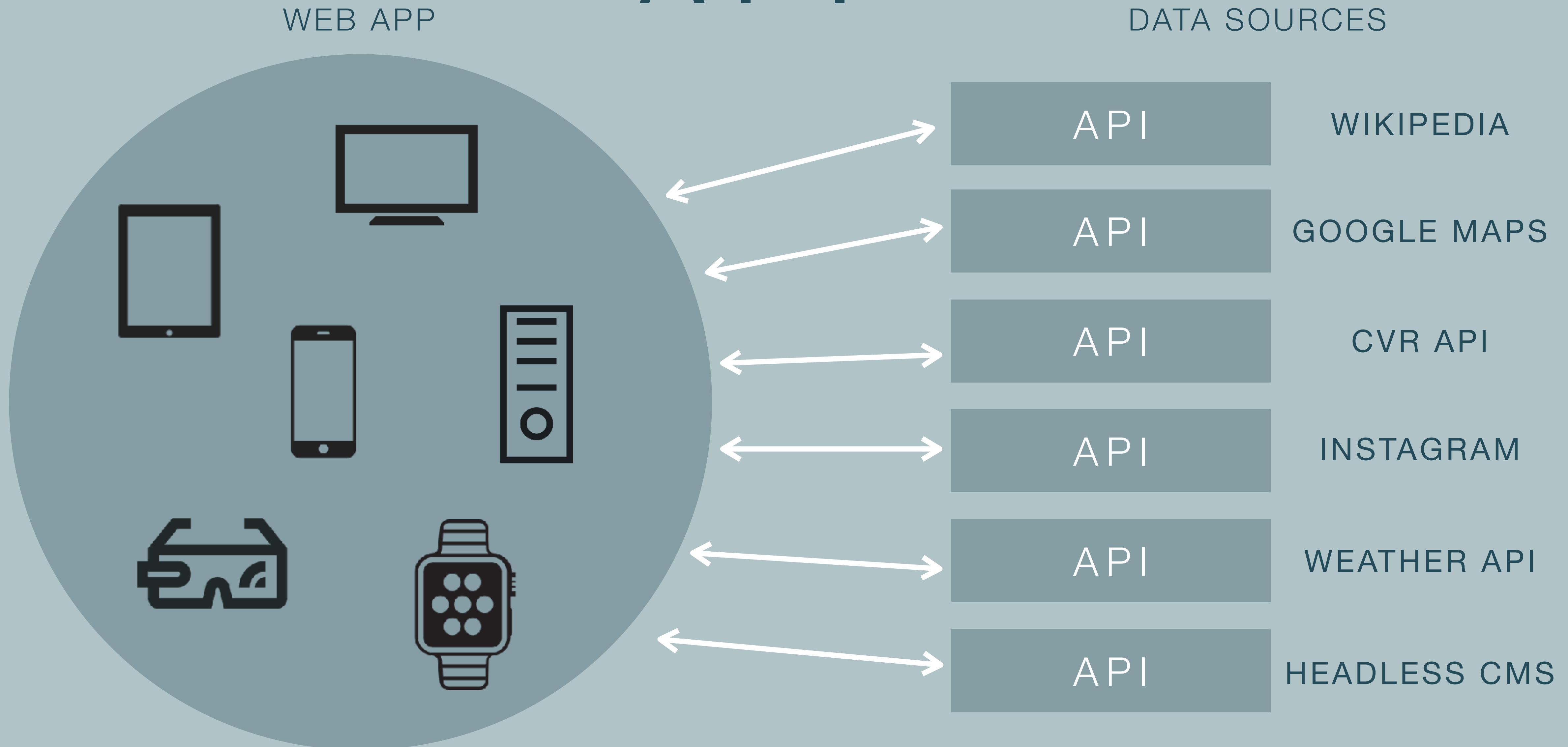
- build dynamic web pages and web apps.
- fetch content/ data from a backend (web service, data source, etc. ) through an API.
- do DOM-manipulation.
- build and develop anything 🤯

<https://www.w3schools.com/js/default.asp>

# CLIENT SERVER MODEL



# API



cederdorff

Drafts / grid-teachers-fetch

0 Share Fork Create

index.html

```
8 <header>
9   <h1>MDU Teachers</h1>
10 </header>
11 <section id="teachers" class="grid-container"></section>
12
13   <script src="app.js"></script>
14 </body>
15 </html>
```

JS app.js

```
1 function fetchTeachers() {
2   fetch(
3     "https://raw.githubusercontent.com/cederdorff/mdu-frontend/main/data/teachers.json"
4   )
5     .then((response) => response.json())
6     .then((data) => appendTeachers(data));
7 }
8
9 fetchTeachers();
10
11 function appendTeachers(teachers) {
12   for (const teacher of teachers) {
13     document.querySelector("#teachers").innerHTML += `
14       <article class="grid-item">
15         
18         <h2>${teacher.name}</h2>
19         <p>${teacher.position}</p>
20         <a href="mailto:${teacher.mail}">${teacher.mail}</a>
21       </article>
22     `;
23   }
24 }
25
```

Browser Tests Terminal

https://3ojxr.csb.app/

# MDU Teachers

Birgitte Kirk Iversen  
Senior Lecturer  
[bki@baaa.dk](mailto:bki@baaa.dk)

Dan Okkels Brendstrup  
Lecturer  
[dob@baaa.dk](mailto:dob@baaa.dk)

Console 0 Problems 0

fb3bcd59e

Ln 1, Col 1 Spaces: 2 UTF-8 LF JavaScript

<https://codesandbox.io/s/grid-teachers-fetch-3ojxr>

# CREATE YOUR OWN WEBPAGE

1. Open dette projekt: <https://codesandbox.io/s/html-css-javascript-my-webpage-starter-odt36>
2. Tilpas indholdet: dit navn, kort beskrivelse af dig, mail, webpage eller din skoles, evt. billede
3. Tilføj en ny paragraf (`<p></p>`) hvor du kort beskriver hvorfor du meldte dig til studiepraktik på multimediedesigneruddannelsen.
4. Tilføj et grid hvor du viser undervisere. Evt med `fetch`
5. Test din løsning
6. Prøv at ændre noget styling (CSS).



Rasmus Cederdorff

Underviser i Frontendudvikling  
[race@eaaa.dk](mailto:race@eaaa.dk) [cederdorff.com](mailto:cederdorff.com)



# PROJECTS

<https://codesandbox.io/s/html-css-javascript-starter-whlnu>

<https://codesandbox.io/s/html-css-javascript-9nypo>

<https://codesandbox.io/s/javascript-starter-brg12>

<https://codesandbox.io/s/javascript-input-okm7e>

<https://codesandbox.io/s/html-css-javascript-my-webpage-starter-odt36>

<https://codesandbox.io/s/html-css-javascript-my-webpage-wyg9w>

<https://codesandbox.io/s/grid-teachers-template-vdimm>

<https://codesandbox.io/s/grid-teachers-fetch-3ojxr>

<https://codesandbox.io/s/grid-participants-fetch-s2zee>

# STUDIEVEJLEDNING

[Forside](#) [Kontakt](#) [Find medarbejder](#) [Medarbejder](#)

## Dorte Hedevang

**Stilling**

studie- og karrierevejleder

**Afdeling**

Kvalitet og studieliv

**Mail**

[dohe@eaaa.dk](mailto:dohe@eaaa.dk)

**Telefon**

[7228 6024](tel:72286024)

**Adresse**

Sønderhøj 30, 8260 Viby J



Spørgsmål vedrørende ansøgning,  
optagelse og adgangskrav?

[eaaa.dk/kontakt/find-medarbejder/medarbejder/dorte-hedevang/](http://eaaa.dk/kontakt/find-medarbejder/medarbejder/dorte-hedevang/)

www.eaaa.dk/videregående-uddannelser/ansog-om-optagelse/

ERHVERVSAKADEMI AARHUS

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Dyk ned i vores vejledningsunivers og få styr på din ansøgning.

**Søg ind på erhvervsakademi- eller professionsbacheloruddannelse**

**Søg ind på 1½-årig professionsbacheloruddannelse**

<https://www.eaaa.dk/videregående-uddannelser/ansog-om-optagelse/>

<https://www.eaaa.dk/videregaende-uddannelser/erhvervsakademiuddannelse/multimediedesigner/#ansoeg-om-optagelse>

The screenshot shows a web browser window with the URL [www.eaaa.dk/videregaende-uddannelser/erhvervsakademiuddannelse/multimediedesigner/#ansoeg-om-optagelse](https://www.eaaa.dk/videregaende-uddannelser/erhvervsakademiuddannelse/multimediedesigner/#ansoeg-om-optagelse) in the address bar. The page has a light yellow background. At the top, there is a navigation bar with links: Om uddannelsen, Vælg engelsk linje, **Ansøg om optagelse**, Praktik, Karriere, Studieliv, Studietilfredshed, Kontakt, and a menu icon. The 'Ansøg om optagelse' link is underlined and highlighted with a teal bar. Below the navigation, the main content area features a large heading 'Ansøg om optagelse'. A subtext explains: 'Her finder du informationer om, hvordan du søger ind på multimediedesigneruddannelsen på Erhvervsakademi Aarhus.' Underneath, a section titled 'Adgangskrav' lists four admission routes, each with a '+' button to expand more details:

- Adgang via gymnasial eksamen (kvote 1 eller kvote 2)**
- Adgang via relevant erhvervsuddannelse (kvote 2)**
- Adgang via 3-årig erhvervsuddannelse (kvote 2)**
- Anden adgang (kvote 2)**

Below this, a section titled 'Sådan søger du' provides instructions: 'Du søger ind på uddannelsen via [optagelse.dk](#). Du kan søge fra 1. februar. Der er studiestart i august.' It also notes: 'Hvis du vil starte på uddannelsen i januar, skal du søge ind via [nemStudie](#). Du kan søge fra 15. september.' At the bottom, a note reads: 'Orienter dig i ansøgningsfrister, dato for studiestart og øvrige regler for optag nedenfor.'





ET GLIMT AF MDU  
CASEARBEJDE

# ET GLIMT AF MDU

- Lav en video, der fortæller om hvad I oplever MDU er.
- Grupper af 5-6 personer
- Målgruppe: Unge mellem 16-25 (Jer selv)
- Udfordring: hvordan kan I lave en video, der giver målgruppen lyst til at læse MDU?

- Analyse af målgruppe
- Definition af formål
- Brainstorm og planlægning (storyboard)
- Film footage
- Rediger indhold (fx iMovie, CapCut eller lignende)

Slå kreativiten løs, skab stemninger,  
utraditionelle vinkler

- **Output:** Video  
+ evt. informationswebsite
- **Deadline:** torsdag kl. 14.20

Formål: at stifte  
bekendtskab med  
nogle af de  
værktøjer en  
multimediedesigner  
bruger

# ET GLIMT AF MDU

## GRUPPER

| # | Group 1                   | Group 2                    | Group 3                     | Group 4                          | Group 5                 |
|---|---------------------------|----------------------------|-----------------------------|----------------------------------|-------------------------|
| 1 | Filippa Vandsø            | Jasmin Kooi                | Asger Vrede Jensen          | Sarah Poulsen                    | Emma Sofie Veisgaard    |
| 2 | Karen                     | Lucas Rønne Jørgensen      | Anna Elizabeth Sylva        | Natalie Wolf Sønderskov Sørensen | Helene Holstein         |
| 3 | Hannah von Qualen Nielsen | jeppe husted               | Lise Bredkjær Juhl Pedersen | Malak                            | Klara Videriksen        |
| 4 | Nanna Bruun               | Oliver Vestergaard Thuesen | Nanna Hedegaard             | Signe Nielsen                    | Maria Mølgaard Pedersen |
| 5 | Albiona Kaqiu             | Andrea Bonde Vammen        | Anna Liatsou Madsen         | Mie Behrens Mathiesen            | Ayesha Ali              |
| 6 | Louise Lynge              | Anne Sofie Dilani Schröder |                             |                                  |                         |



FRIVILLIG  
AKTIVITET  
ONSDAG

16.00: Rundtur i Aarhus C

Afslutning på Aarhus  
Streetfood hvor  
Erhvervsakademiet giver mad

Mødested: udenfor  
indgangen Sønderhøj 30

- Design på MDU
- Casearbejde
- Frokost
- UX/UI på MDU ved  
Maria Louise Bendixen
- Besøg af nuværende  
studerende fra 3. semester
- Afrunding og præsentation  
af casearbejde





DRØMME STARTER MED UDDANNELSE

ERHVERVSAKADEMI AARHUS  
BUSINESS ACADEMY AARHUS

<https://www.youtube.com/watch?v=EL9KL3qpG7o>

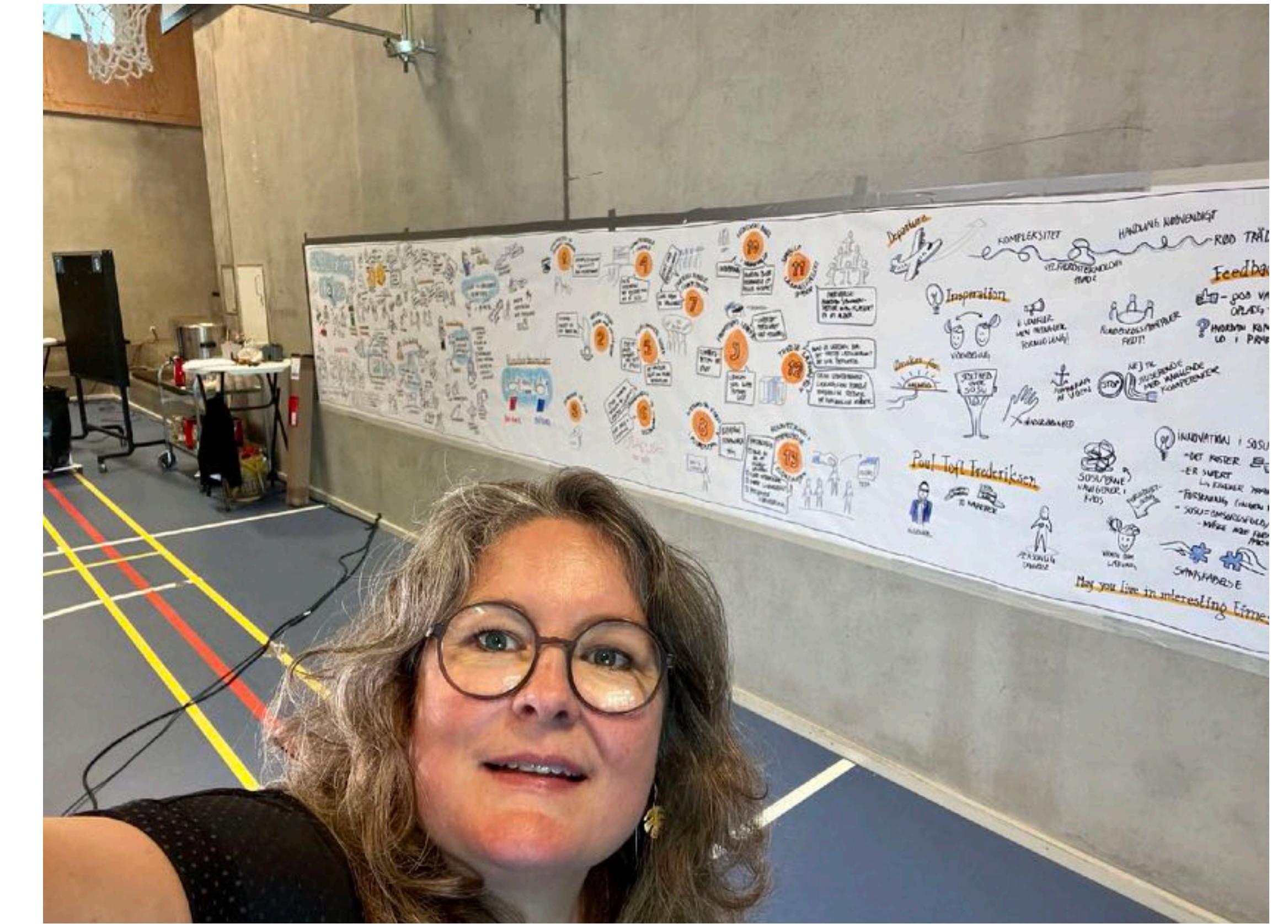
MARLENE AHLGREEN  
JENSEN  
DESIGNUNDERVISER

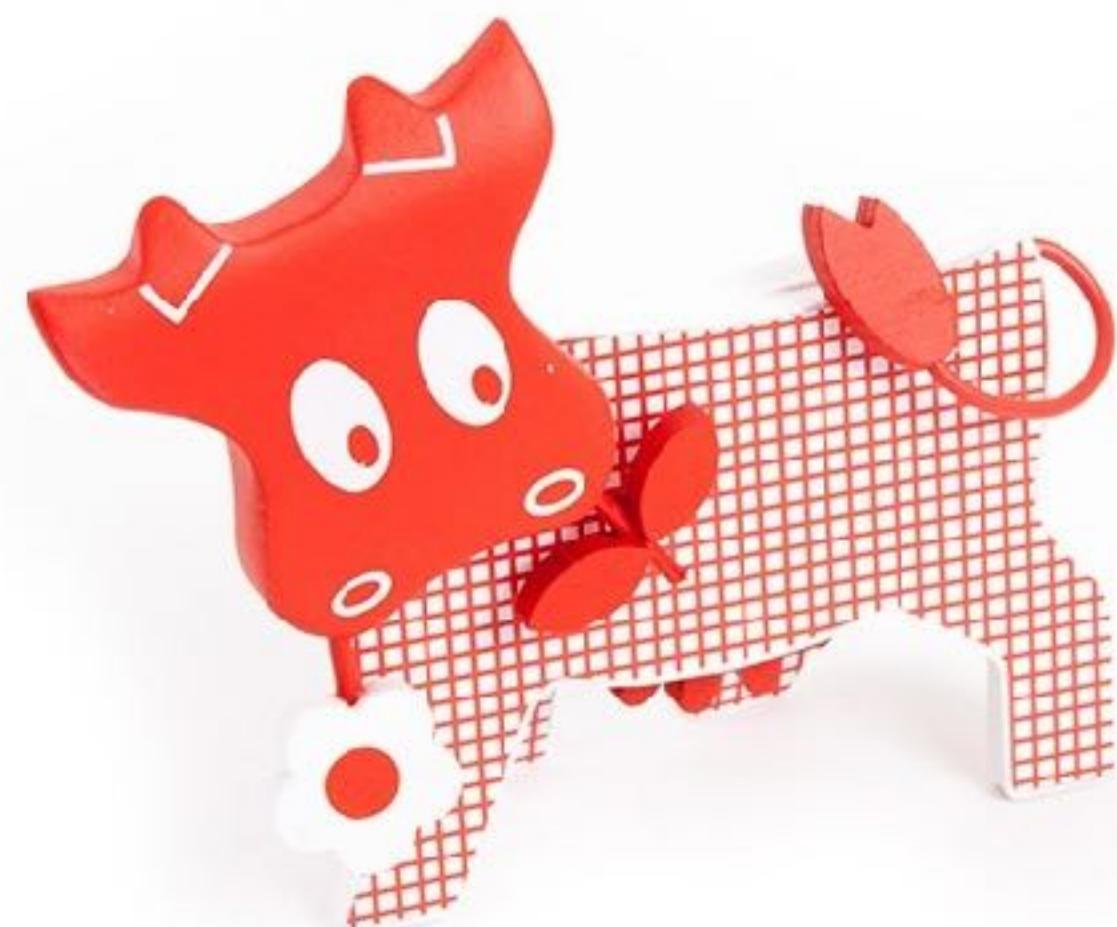
# Hvem er jeg?

- Marlene
- Designlærer siden 2008
- Passioneret omkring at tegne, farver, typografi, animationer

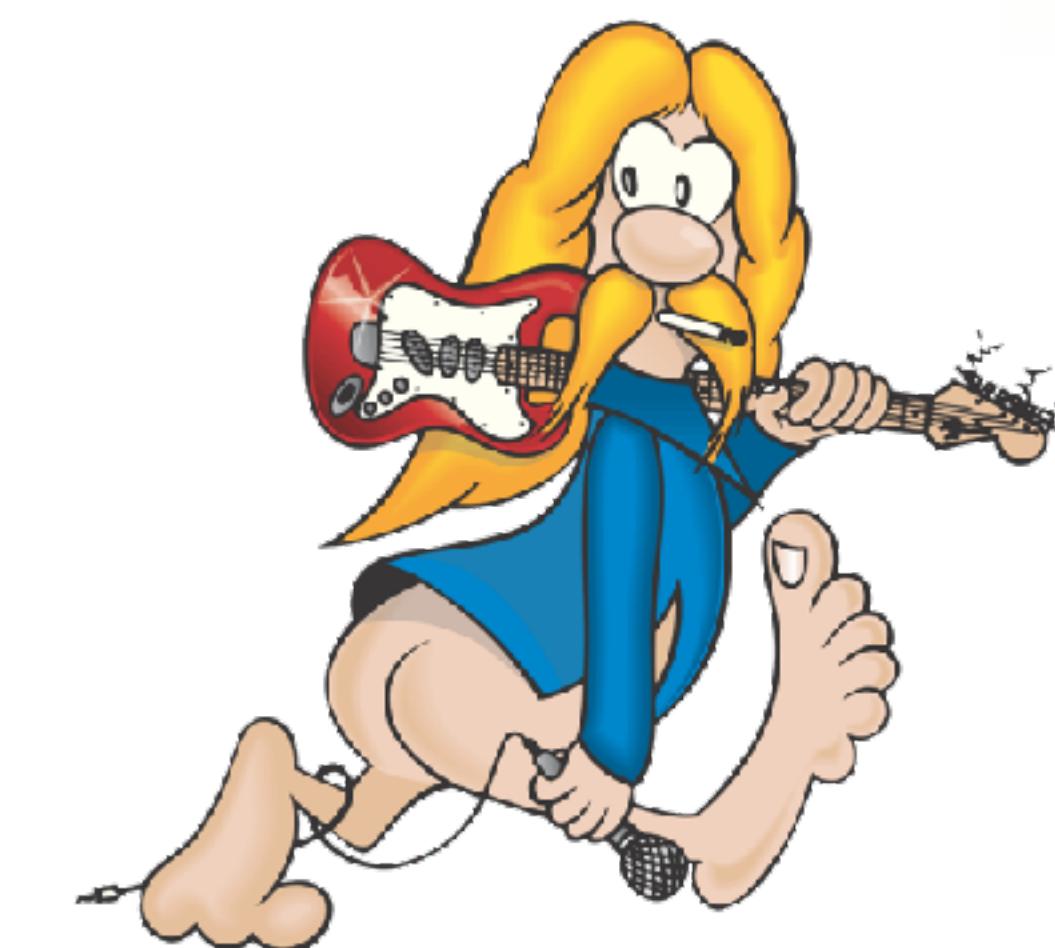
Totemdyr:



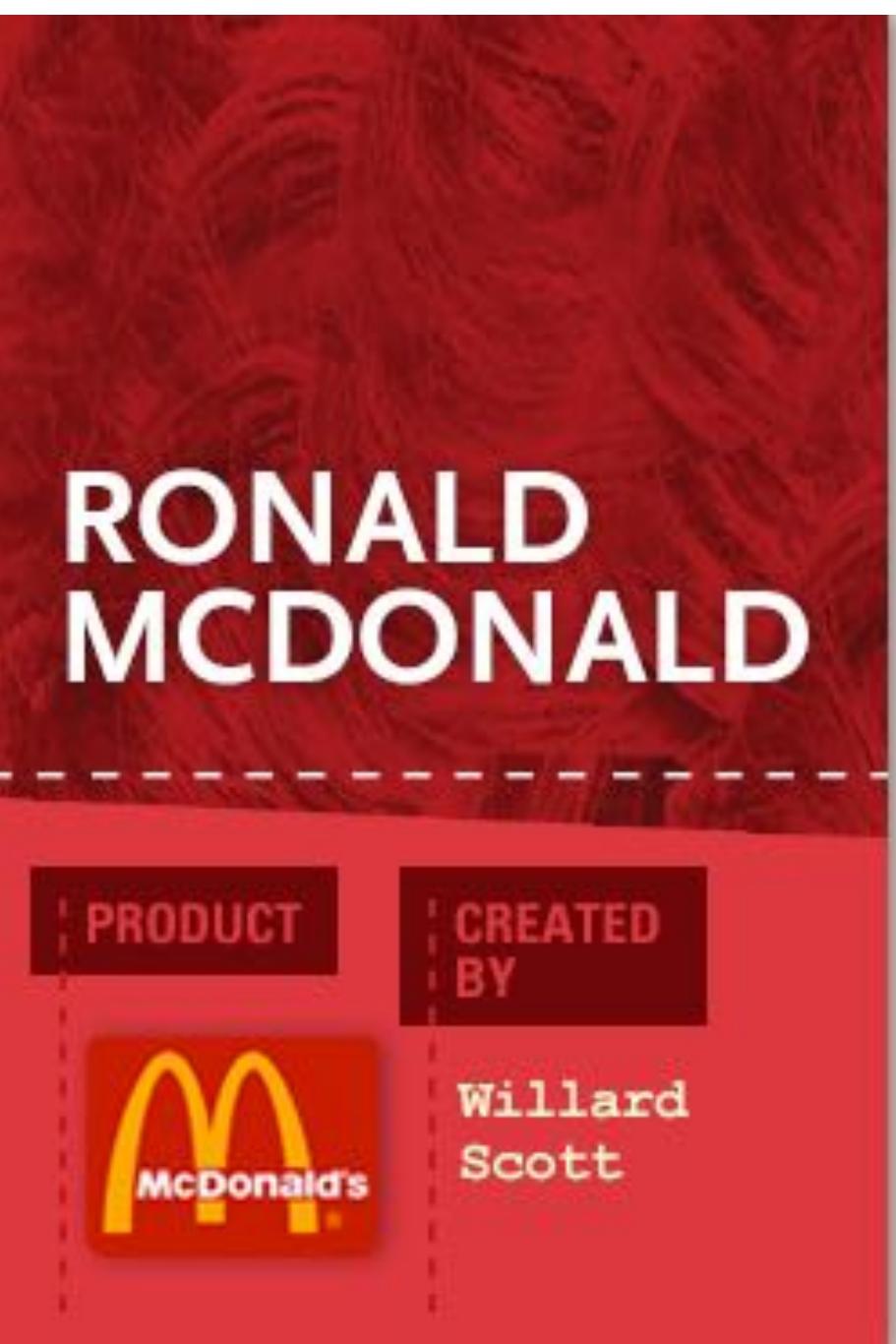




PLAY  
COMME des GARÇONS







Introduced  
**1963**



**1971**



**1978**

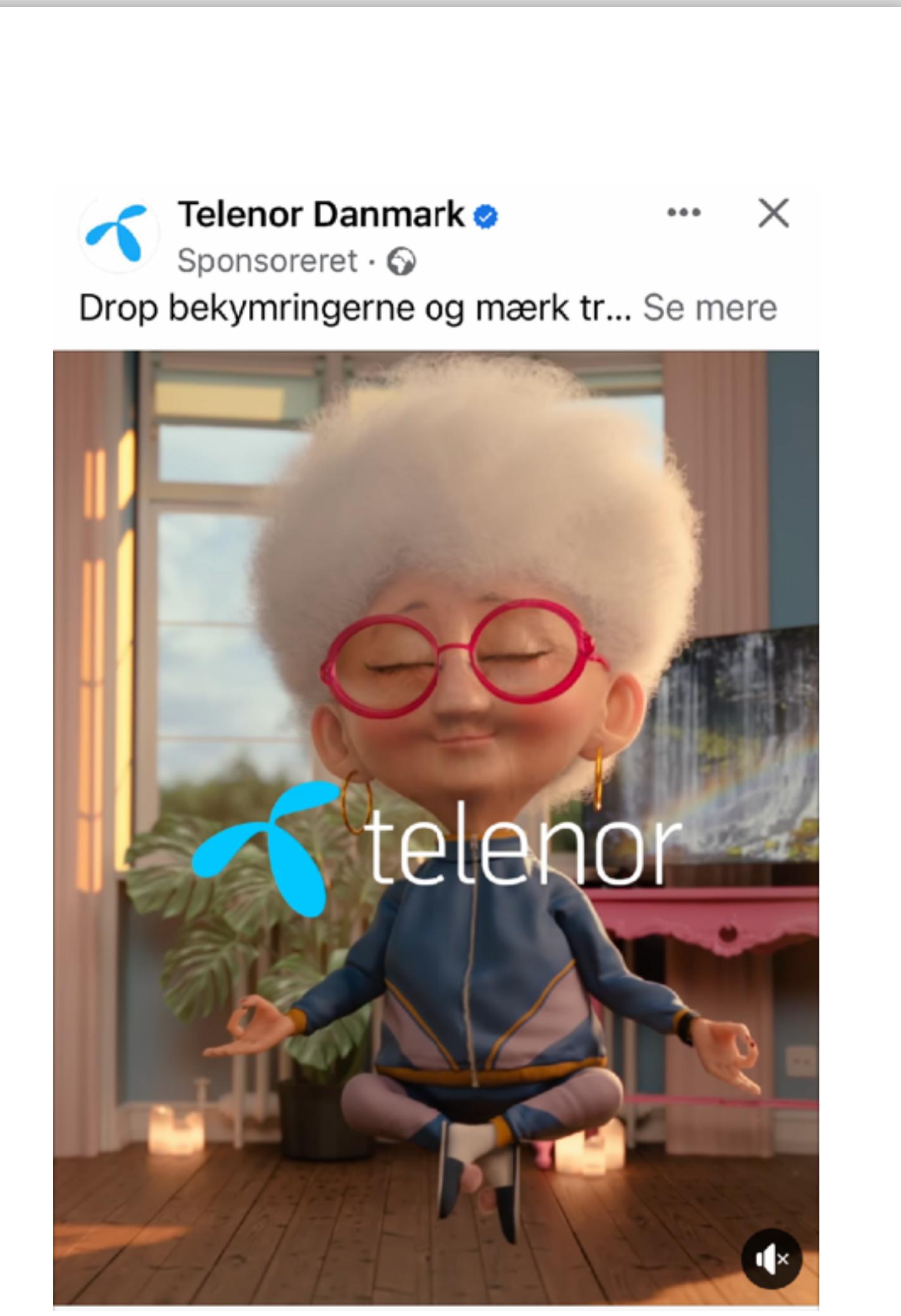


**1980**



**2003**  
Through  
Present

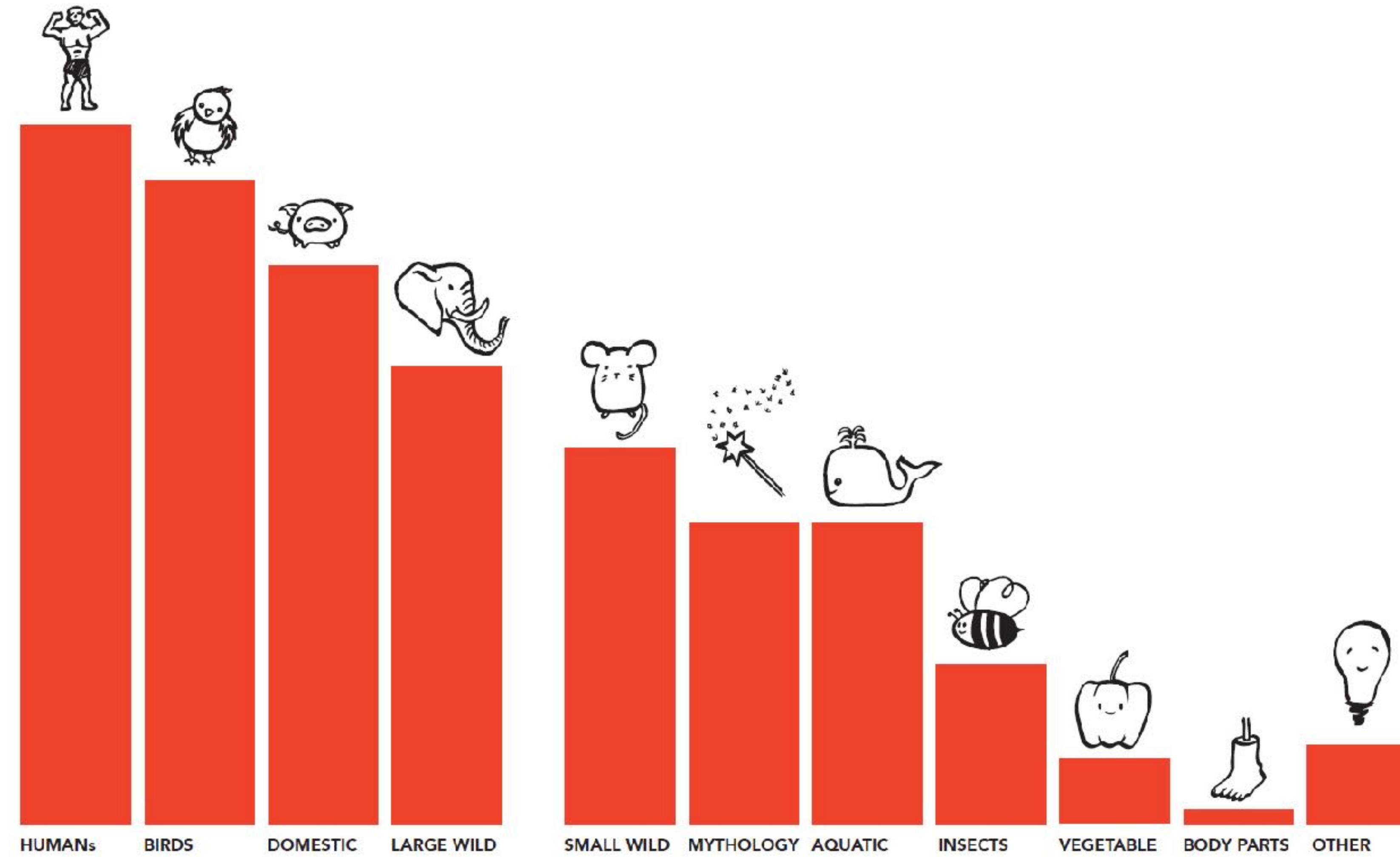






# Hvis du var et dyr?

Tegn Jeres totemdyr



# Visuel identitet



Google Logotype



Maps



Photos



Dots



Google G



Drive

Source: BRAND NEW blog post, September 2, 2015



# Tegn berømte logoer fra hukommelsen

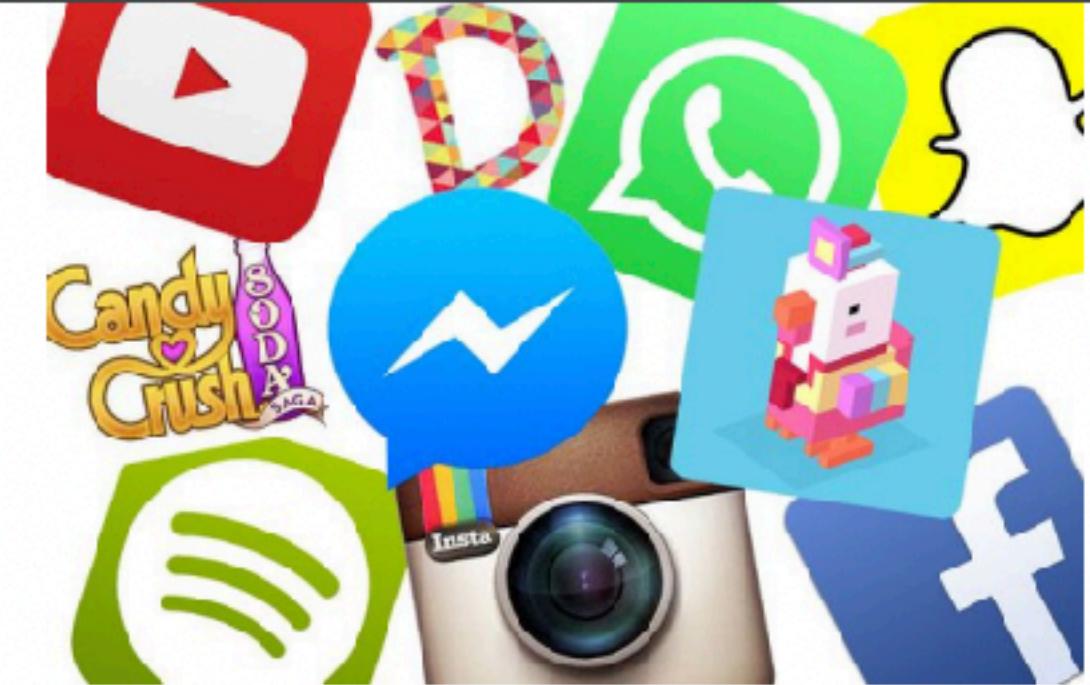
Google, 7 Eleven, Apple, Adidas, LEGO, Arla, Starbucks

[https://www.boredpanda.com/famous-brand-logos-drawn-from-memory/?utm\\_source=google&utm\\_medium=organic&utm\\_campaign=organic](https://www.boredpanda.com/famous-brand-logos-drawn-from-memory/?utm_source=google&utm_medium=organic&utm_campaign=organic)

# Hvad er vigtigt når man designer et logo?



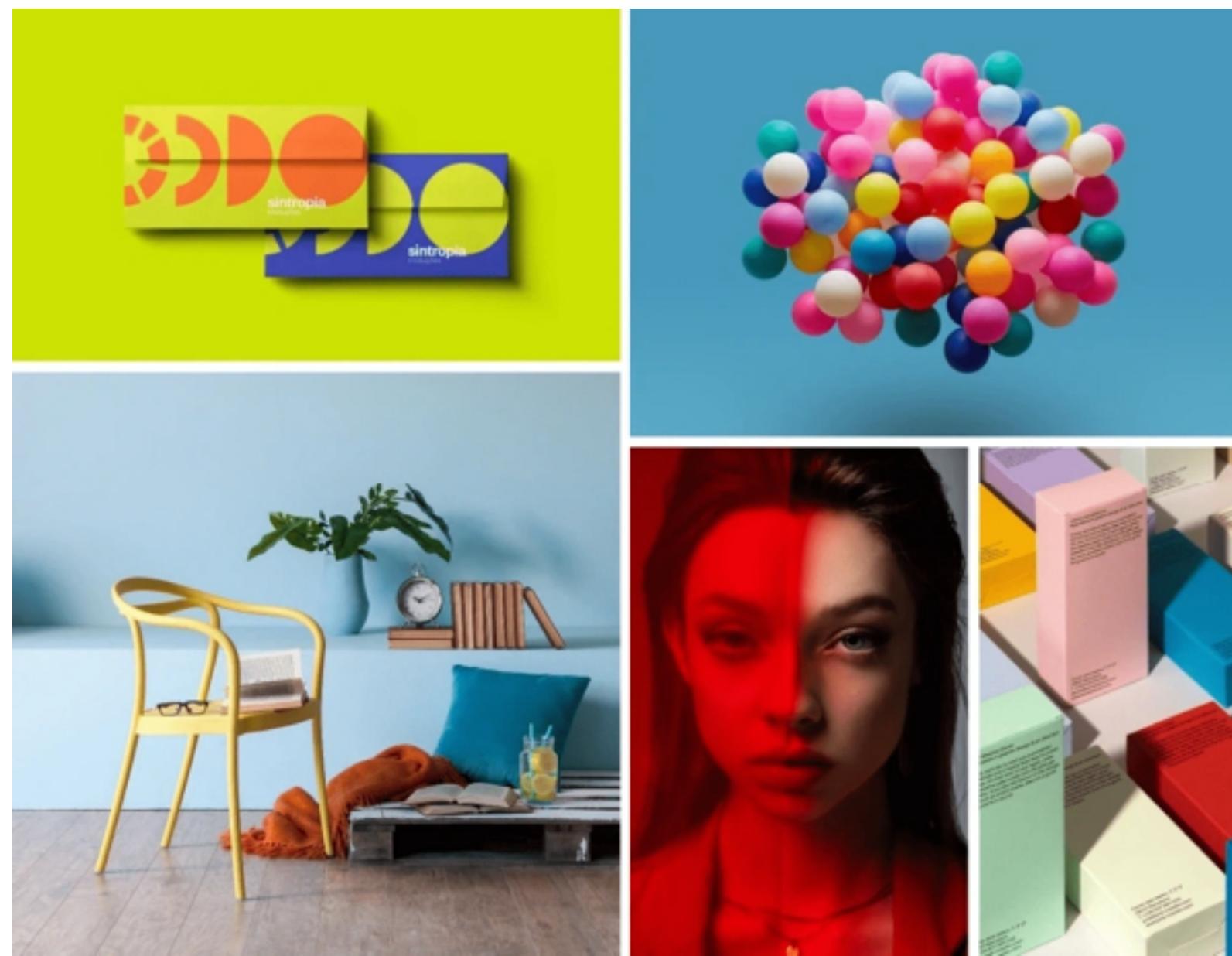




CUSTOMER  
ANALYSIS  
ADVERTISING  
MARKET  
SALES  
PROMOTION  
PRICE  
INTERNET  
TARGET



# Trends

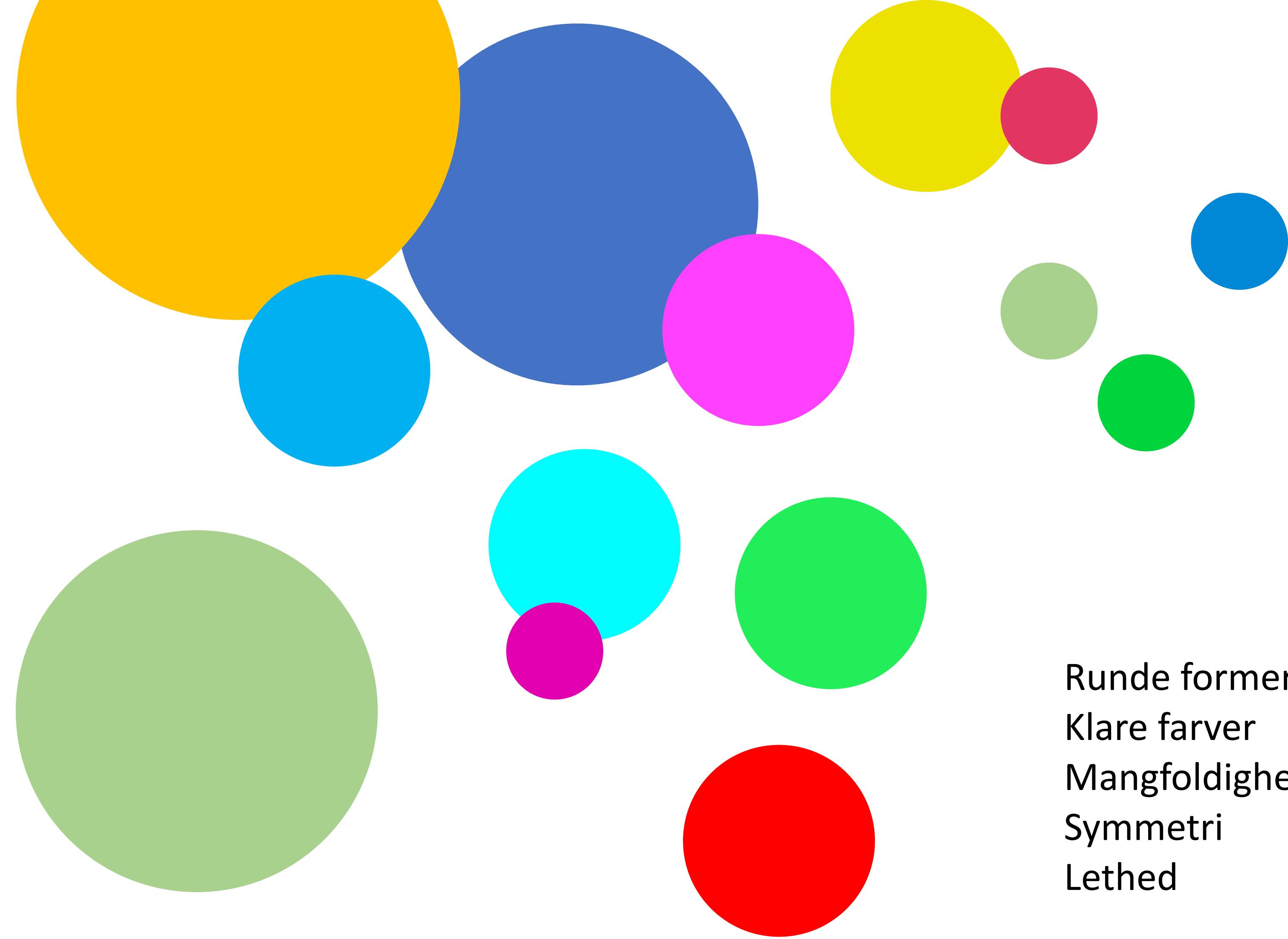


# 44 Types of Content Formats

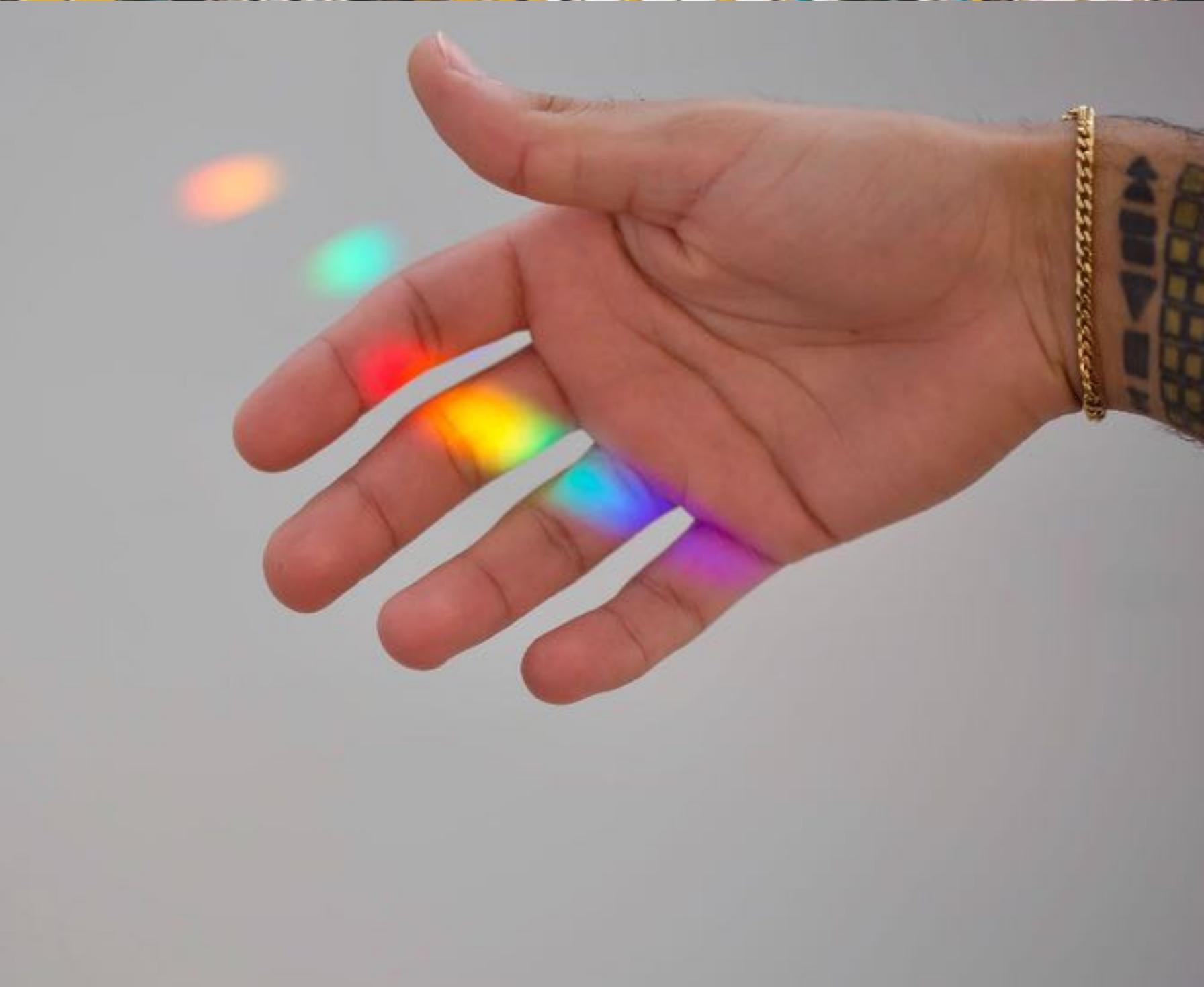
- |  |                                |                               |                            |
|--|--------------------------------|-------------------------------|----------------------------|
| 01  How-to's                           | 12  Helpful Application / Tool | 23  Q & A Session             | 34  Polls                  |
| 02  Content Curation                   | 13  Opinion Post               | 24  Webinar                   | 35  Podcasts               |
| 03  Case Studies                       | 14  White Papers               | 25  Guides                    | 36  Pinboards              |
| 04  Charts / Graphs                    | 15  Vlog                       | 26  Dictionary                | 37  Photo Collage          |
| 05  Ebooks                             | 16  Videos                     | 27  "Day in the Life of" Post | 38  Original Research      |
| 06  Email newsletters / Autoresponders | 17  Templates                  | 28  Infographics              | 39  Press release          |
| 07  Cartoons / Illustrations           | 18  Surveys                    | 29  Interview                 | 40  Photos                 |
| 08  Book summaries                     | 19  Slideshares                | 30  Lists                     | 41  Predictions            |
| 09  Tool Reviews                       | 20  Resources                  | 31  Mind Maps                 | 42  User Generated Content |
| 10  Giveaways                          | 21  Quotes                     | 32  Meme                      | 43  Company News           |
| 11  FAQ's                              | 22  Quizzes                    | 33  Online Game               | 44  Timelines              |

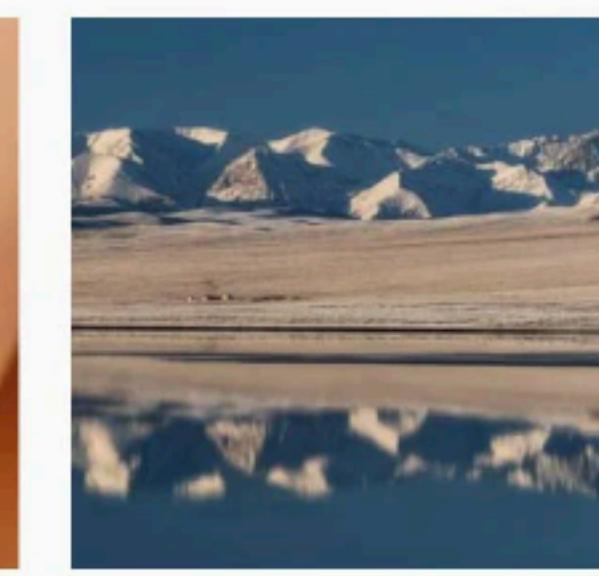
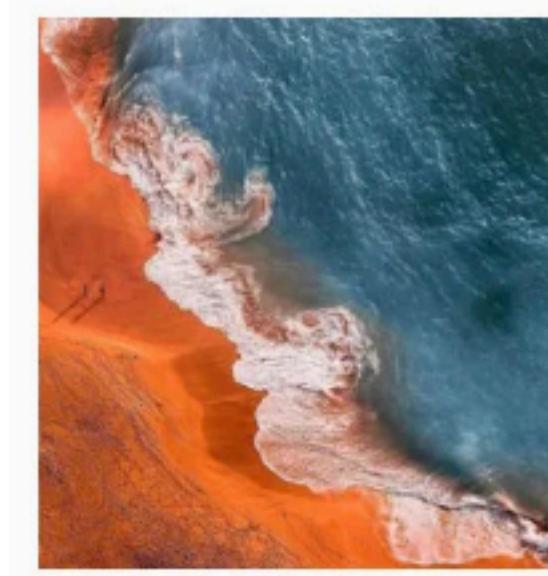
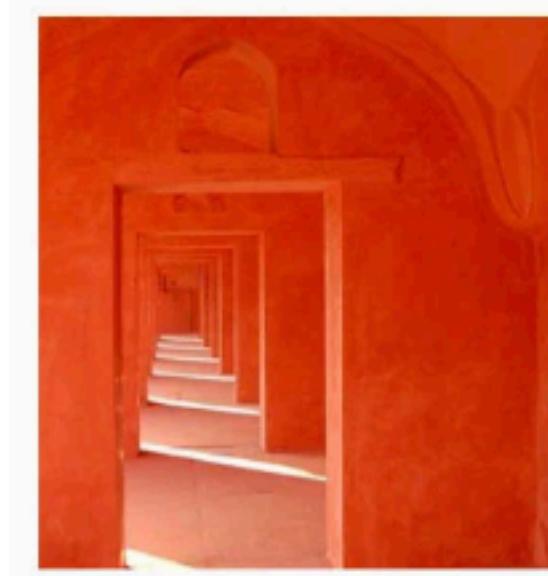






Runde former  
Klare farver  
Mangfoldighed - overflod  
Symmetri  
Lethed







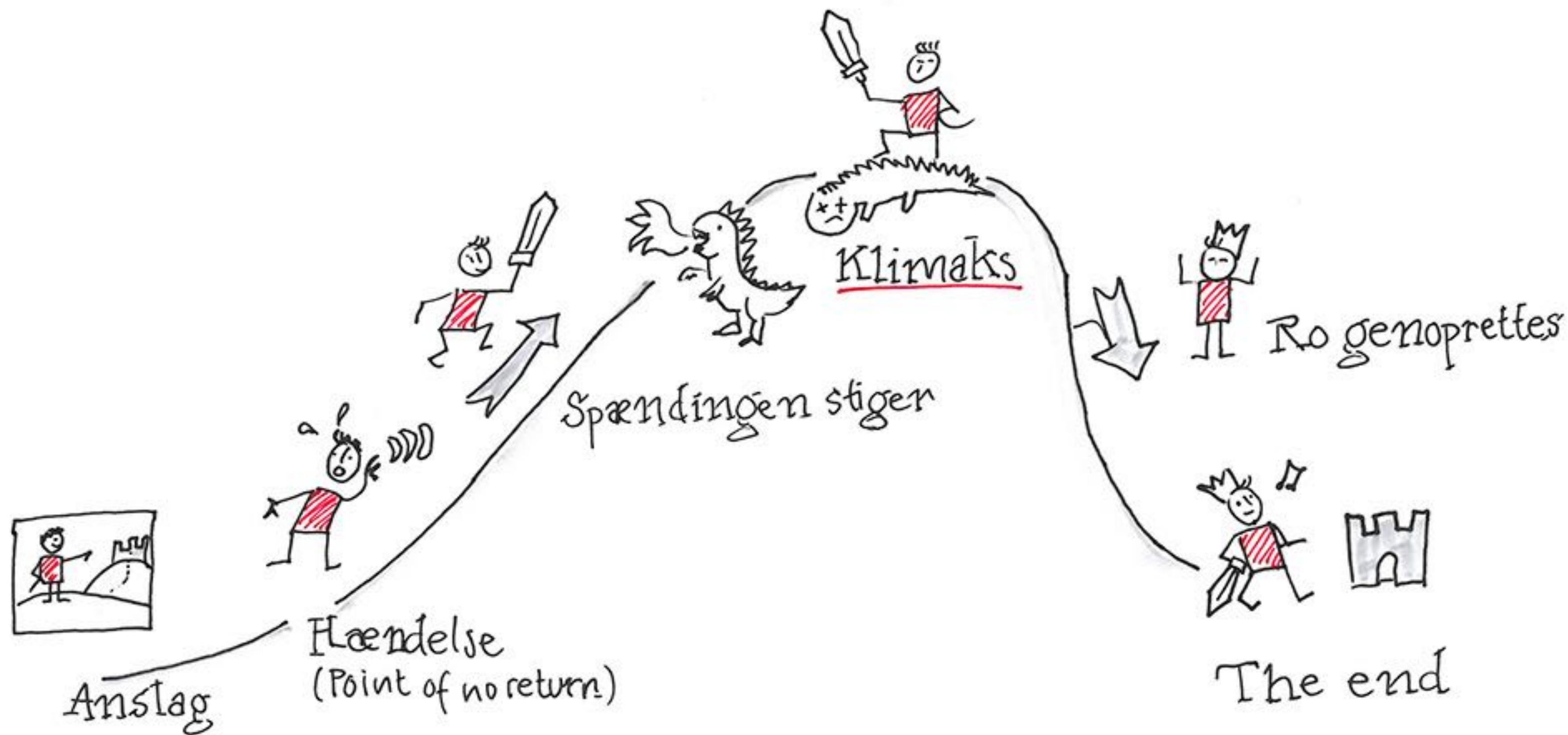
# Content produktion



Kantinensh30

Still-billede content der fanger øjet

Komponér et insta-feed til kantinen, hvor I fokuserer på billeder der fanger øjet, og giver dig lyst til at spise deres mad.



Historiefortællingens dna



C.W. looks on Clay. "There are no  
choices," instant C.W.S of Clay

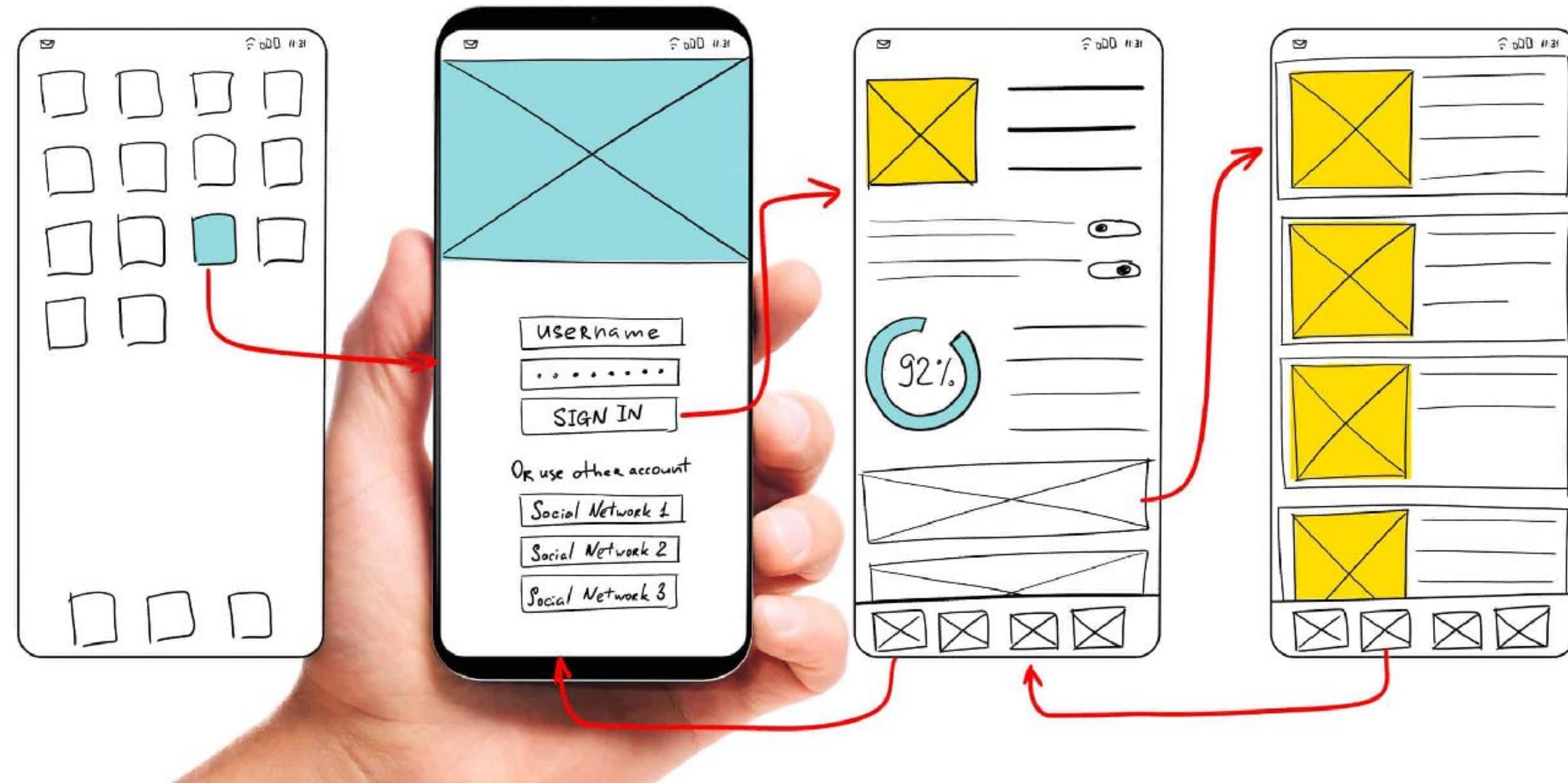


Laura "Clay..."



clay: "Get out!"





A dark, moody photograph of a person from behind, wearing a dark jacket, holding a tablet. The tablet screen shows a video of a man in a suit, possibly a video conference or a recorded video. The overall atmosphere is professional and mysterious.

# ET GLIMT AF MDU

CASEARBEJDE & FREMVISNING AF PRODUKTER



MARIA LOUISE  
BENDIXEN  
UX- OG CONTENTUNDERVISER

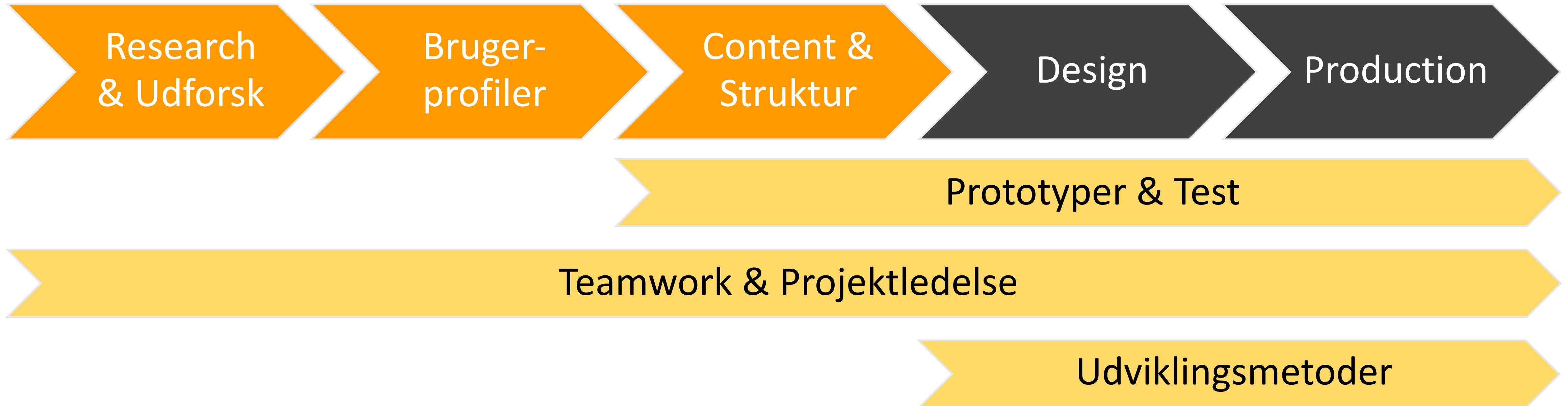
Okt 25

# Tænk på brugeren



>

Ved underviser i UX og content  
Maria Louise Bendixen



# RESEARCH



Hvad er en god morgen for dig?  
Hvilken betydning har det for resten af din dag?



Interviews  
Observationer  
Online søgning  
Spørgeskema

Brugerprofiler  
Brugeroplevelser



Alarmen  
ringer

Ud af sengen

En tur  
omkring  
badeværelset

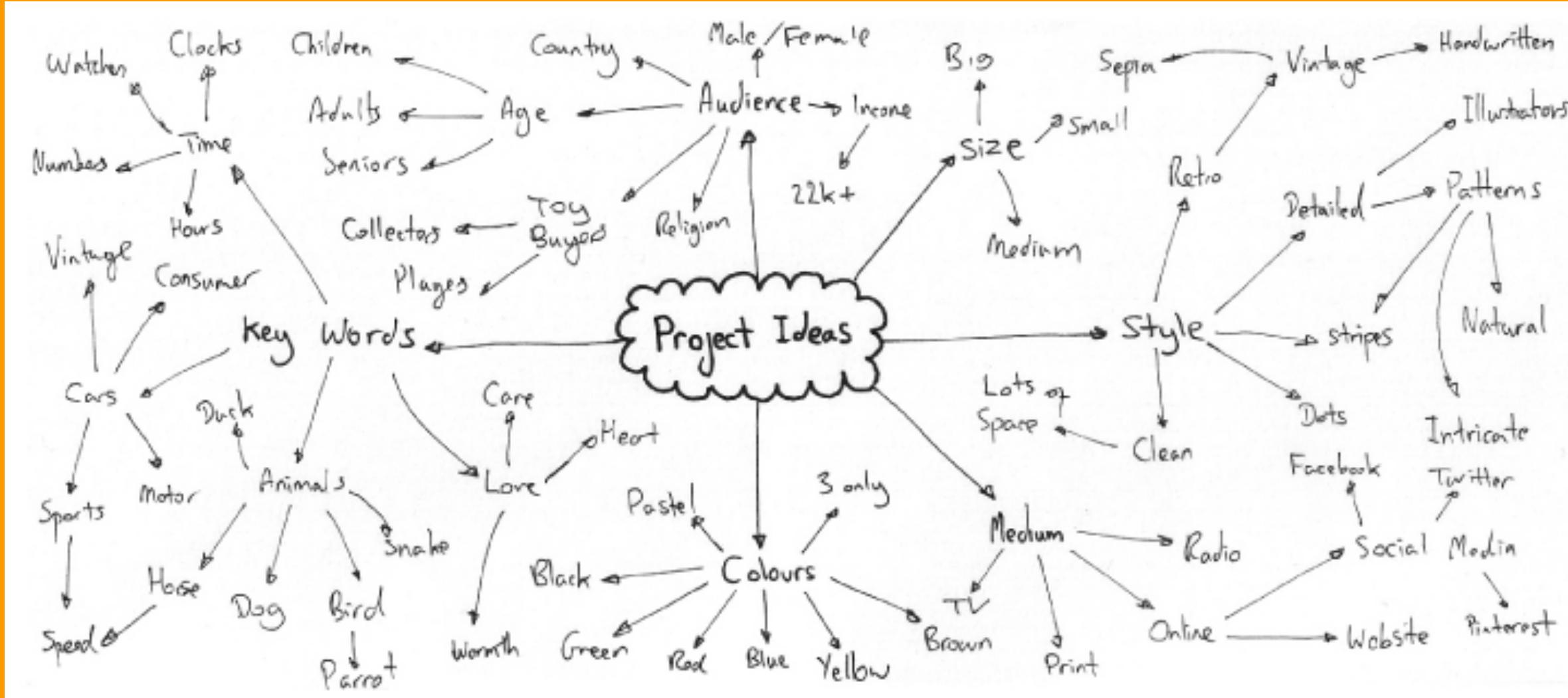
Morgenmad

Afsted til  
skole/arbejde

# MAPPING

Hvordan ser din morgen ud?  
Hvilke morgenritualer har du?  
Hvad fungerer godt?  
Hvad kunne være bedre?

# KREATIV



# Brainstorms og mindmaps

## utive benspænd og øvelser

# Brainstorm på en mulig app

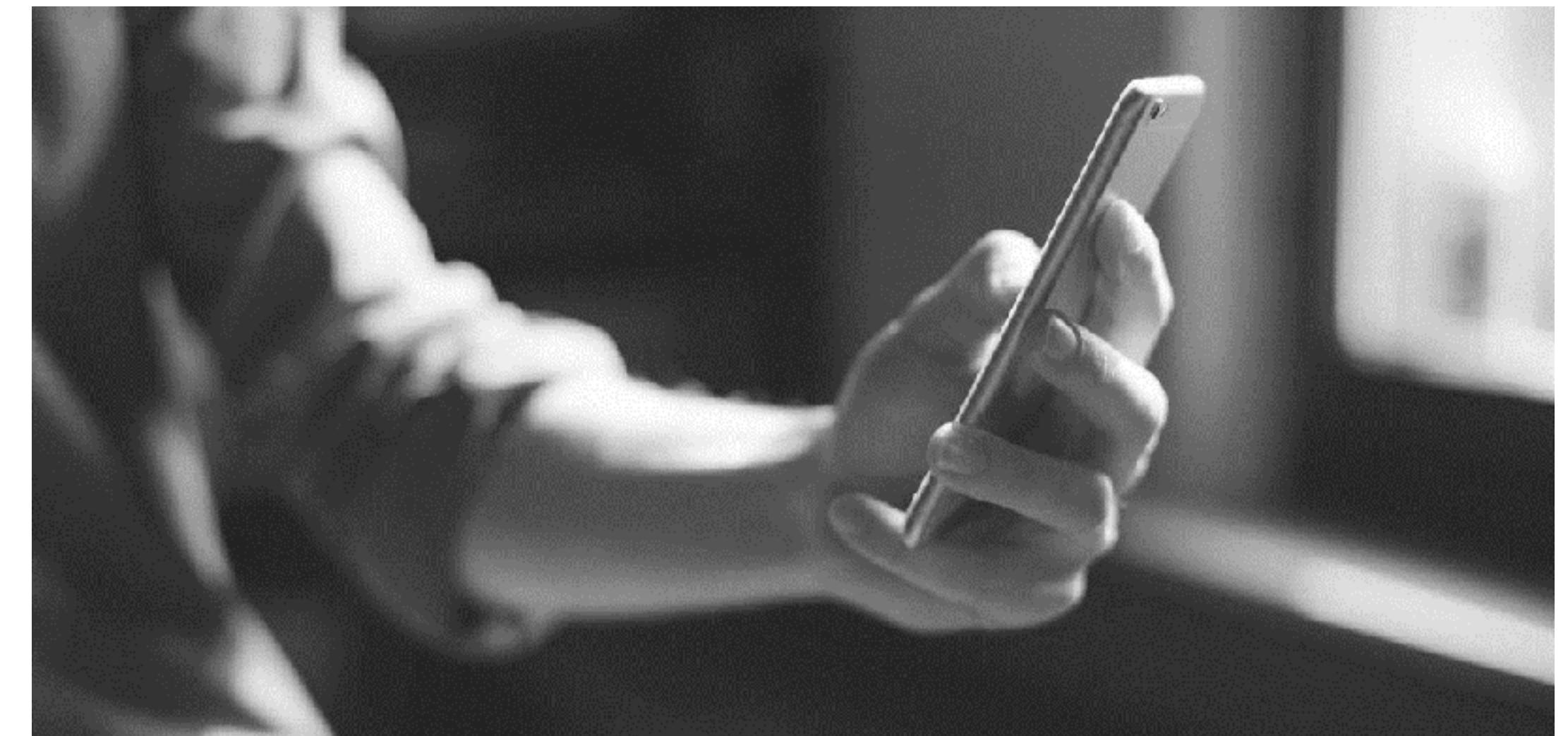
# Hvad ville kunne gøre din morgen lettere?

# I forhold til at stå op?

# Gøre dig klar?

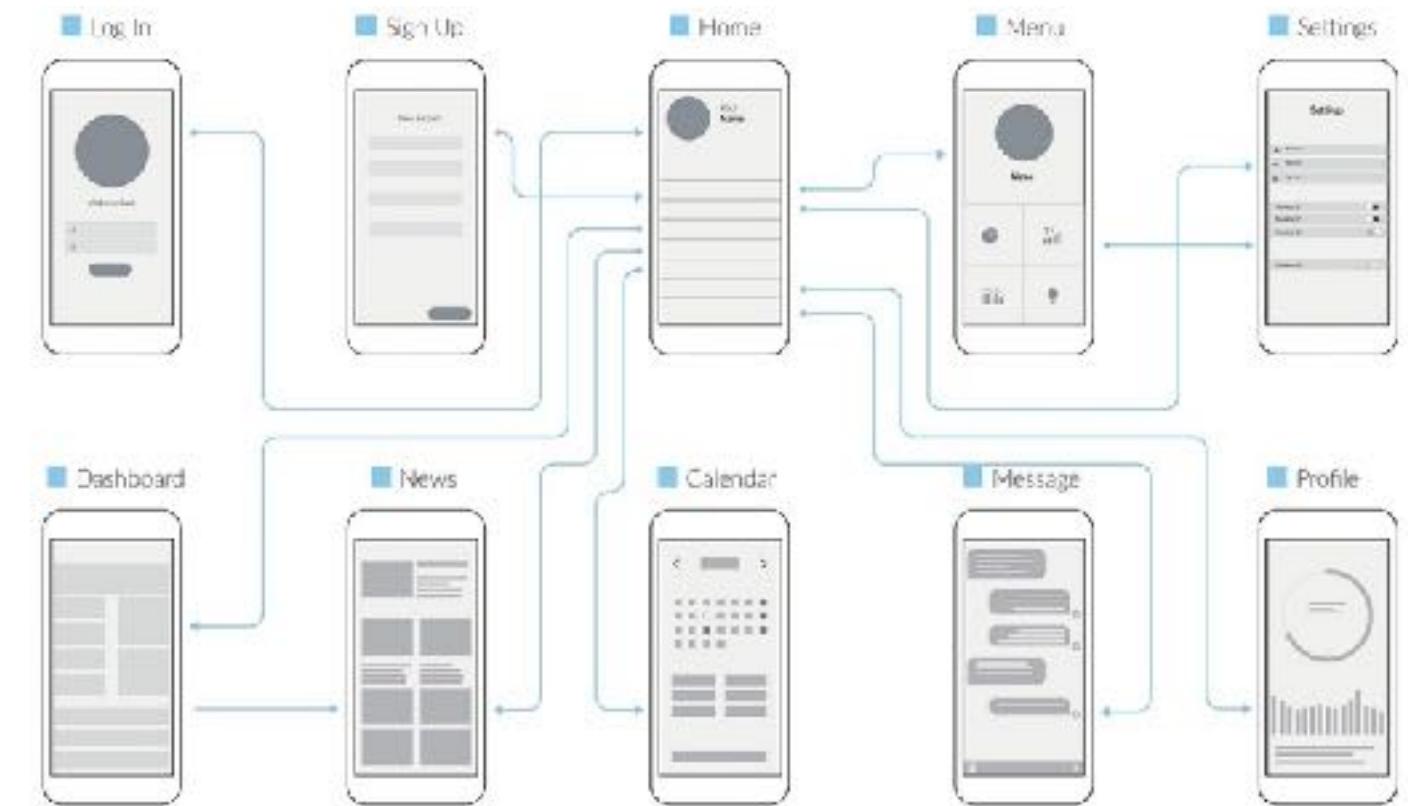
# Morgenmad, påklædning, transporttid etc.?

# Kan appen kombinere flere af disse opgaver?





*Lasalle*  
**Lotus**  
**Mambo**  
*Merlin*



**Brainstorm på stil: farver og billeder**

Hvilke farver signalerer morgen?

Hvilke billeder og illustrationer vil støtte op omkring stilen?  
Kan vi gøre brug af videoer?

# SKAB DIN LØSNING



BESØG AF  
STUDERENDE

# PORTFOLIO

<https://soviki.dk/>

<https://mariussart.com/>

<https://kristinedzu.github.io/portfolio/>

<https://portfolio.piotrpospiech.com/>

<https://www.majanorbjerg.dk/>

# SPØRGSMÅL & FEEDBACK

[eaaa.padlet.org/race/studiepraktik](https://eaaa.padlet.org/race/studiepraktik)



eaaa.dk

[https://www.eaaa.dk/videregående-uddannelser/  
erhvervsakademiuuddannelse/multimediedesigner/](https://www.eaaa.dk/videregående-uddannelser/erhvervsakademiuuddannelse/multimediedesigner/)

<https://www.baaa.dk/programmes/multimedia-design/>

ERHVERVSAKADEMI AARHUS  
BUSINESS ACADEMY AARHUS

