

Velkommen til 2. gruppetime



Gruppe 2
Andrea og Fredrik

Agenda

- Gruppetimeressurser
- Viktig beskjed: husk å send inn team!
- Teori
 - emulator
 - komponenter
 - material 3
- Livekoding:
 - Hva skjer om vi ikke bruker state/remember
 - Exposed drop down menu
 - Dokumentasjon!!
- Lab

Emulator

- Anbefalt: *Resizable, API level 33*
- Appen vil kjøres på det minimum api-nivået du velger og oppover
- Dersom vi velger et høyt API-nivå, vil vi ikke kunne nå så mange brukere (API-level 23, vil kjøres på android-versjonen 6.0 og nyere)
- Men på en positiv side, kan du benytte funksjonalitet som ikke fantes i android tidligere
- Lavt API-level kan også være dårligere mtp. sikkerhet, fordi bla. fingerprint authentication kom først med 6.0, og nye algoritmer for kryptografi kom først i 8.1.

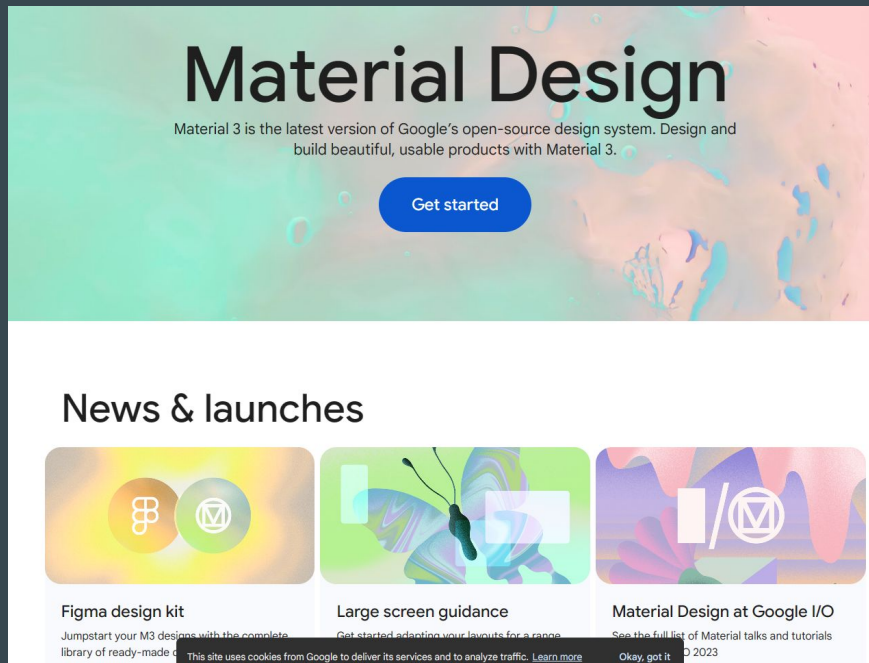
Komponenter

- Komponenter er interaktive byggesteiner/deler
 - delene gjennomfører konkrete/små funksjoner
 - vi setter sammen løst koblede uavhengige komponenter til en helhet
- Compose tilbyr en rekke av disse
- Fordeler med komponentbasert utvikling:
 - forenkler og akselerer utviklingen
 - mindre kode fordi gjenbruk av kode
 - skaper kontinuitet

```
Button(onClick = {  
    @Composable  
    @ComposableInferredTarget  
})  
public fun Button(  
    onClick: () -> Unit,  
    modifier: Modifier = COMPILED_CODE,  
    enabled: Boolean = COMPILED_CODE,  
    shape: Shape = COMPILED_CODE,  
    colors: ButtonColors = COMPILED_CODE,  
    elevation: ButtonElevation? = COMPILED_CODE,  
    border: BorderStroke? = COMPILED_CODE,  
    contentPadding: PaddingValues = COMPILED_CODE,  
    interactionSource: MutableInteractionSource = COMPILED_CODE,  
    content: @Composable() (RowScope.() -> Unit)  
): Unit
```

Material 3

- Material 3 er et design system
- Gir oss tilgang på ferdige komponenter
- Hvorfor?
 - Gjenbruk
 - Man bruker mindre ressurser, færre linjer med kode
 - Man koder mer effektivt
 - Consistency(konsekventhet)
 - UI-en ser lik ut, brukere blir ikke forvirra.




The screenshot shows the Material Design website homepage. At the top, there is a large teal and pink gradient banner with the text "Material Design" in a large, bold, black font. Below this, a smaller line of text reads "Material 3 is the latest version of Google's open-source design system. Design and build beautiful, usable products with Material 3." A blue button with the text "Get started" is positioned to the right. Below the banner, the section "News & launches" is visible, featuring three cards with colorful abstract backgrounds and icons. The first card is titled "Figma design kit" and includes the text "Jumpstart your M3 designs with the complete library of ready-made d". The second card is titled "Large screen guidance" and includes the text "Get started adapting your layouts for a range". The third card is titled "Material Design at Google I/O" and includes the text "See the full list of Material talks and tutorials". At the bottom of the page, there is a cookie consent banner that reads "This site uses cookies from Google to deliver its services and to analyze traffic. Learn more" and "Okay, got it". The year "© 2023" is also visible in the bottom right corner.

Material Design

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[Get started](#)

News & launches




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Okay, got it

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Livekoding