



Sign in with Apple

**SICHER, SCHNELL UND EINFACH ZUM NEUEN  
ACCOUNT**

# ABOUT ME

- » Stefan Herold • @blackjacxxx 
- » Mobile Dev seit 2009
- » Seit 2017 bei ioki im Herzen Frankfurts

# IOKI

- » Demand Responsive Transport
- » Leuchtturmpunkt mit HVV Hamburg
- » Whitelabel Passenger App • iOS & Android
- » Driver App • React Native
- » Backend • Ruby

# SIGN IN WITH APPLE

- » Registrierung und Login
- » schnell, sicher und privat
- » kein Tracking durch Apple
- » App erhält:
  - » stabile, eindeutige userID
  - » Vor- und Nachname
  - » verifizierte Email Adresse

# SIGN IN WITH APPLE

## PLATFORM

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iOS 13+

iPadOS 13+

tvOS 13+

watchOS 6+

macOS Catalina 10.15+

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Web

Windows

Android

## APPLE ID

iCloud Nutzer

beliebige Apple ID

# SICHER

- » Kein Passwort
- » Zwei-Faktor-Authentisierung
- » Anti-Fraud (Glaubwürdigkeitsprüfung)
- » Jahrelang entwickelter Algorithmus
- » On-Device Machine Learning / Account History
- » 1-Bit-Info über Echtheit des Users
- » iOS only

# PRIVAT

Eindeutige, zufällige Email  
privaterelay.appleid.com

App sieht nur diese Email

- » Kommunikation mit genau einem Developer
- » Zwei-Wege-Kanal
- » Kein speichern von Emails
- » Weiterleitung deaktivierbar

The screenshot shows a mobile application interface for managing a temporary email account. At the top, there is a header with the time '00:00' and signal strength indicators. Below the header, a blue 'Back' button is on the left and a black 'Checkmark' title is on the right. The main content area features a large green circular icon with a white checkmark. To the right of the icon, the word 'Checkmark' is displayed above 'Stefan Herold'. Below this section, a message states: 'You created an account in this app on 04 November 2019 and shared your name and used 'Hide my email''. A 'HIDE MY EMAIL' button is present. Further down, it says 'This app received' followed by an email address '7pucxd78iq@privaterelay.appleid.com'. There is also a 'Forward to' field containing 'stefan.herold@gmail.com' with a green toggle switch next to it. A note explains that 'Hide my email' allows apps to contact you without receiving your real email address, with a 'Learn more' link. At the bottom, a red 'Stop using Apple ID' button is visible, along with a note about future account creation.

00:00 1

Back Checkmark

Checkmark  
Stefan Herold

You created an account in this app on 04 November 2019 and shared your name and used 'Hide my email'.

HIDE MY EMAIL

This app received  
7pucxd78iq@privaterelay.appleid.com

Forward to  
stefan.herold@gmail.com

'Hide my email' allows apps to contact you without receiving your real email address. [Learn more](#).

Stop using Apple ID

Next time that you use this app, you may be asked to create a new account.

# WER'S BRAUCHT

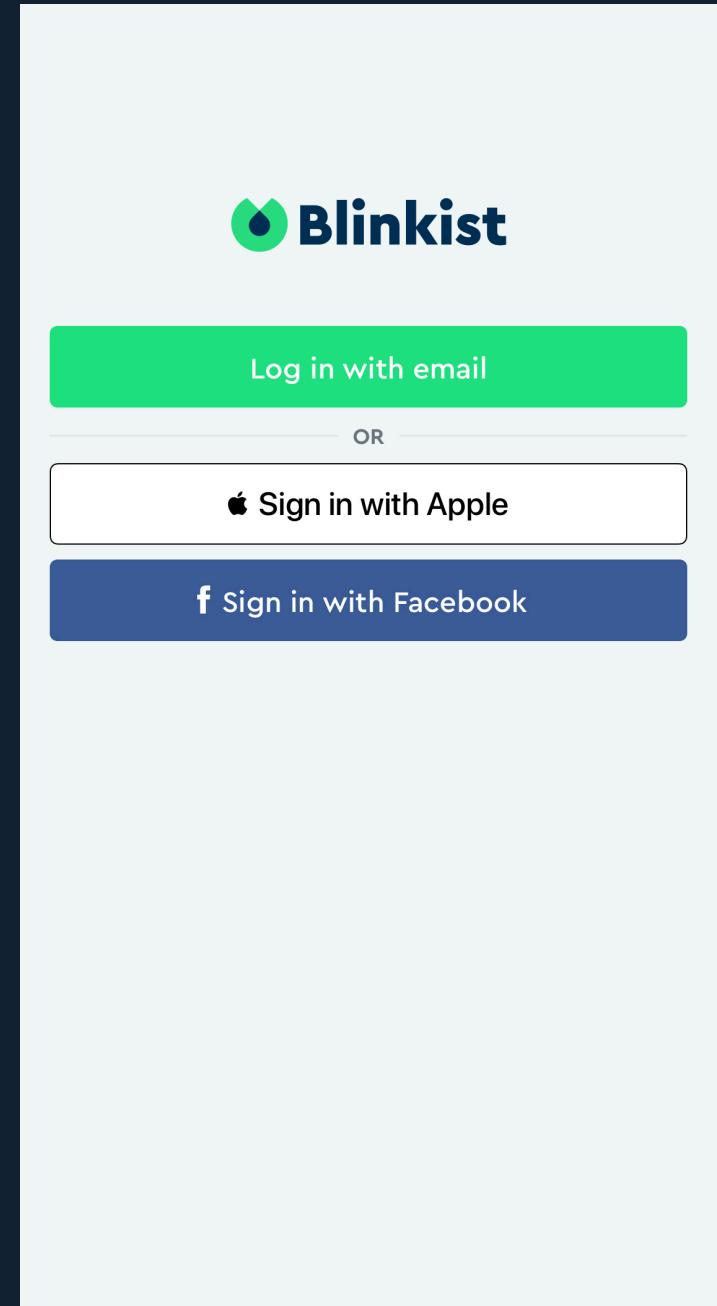
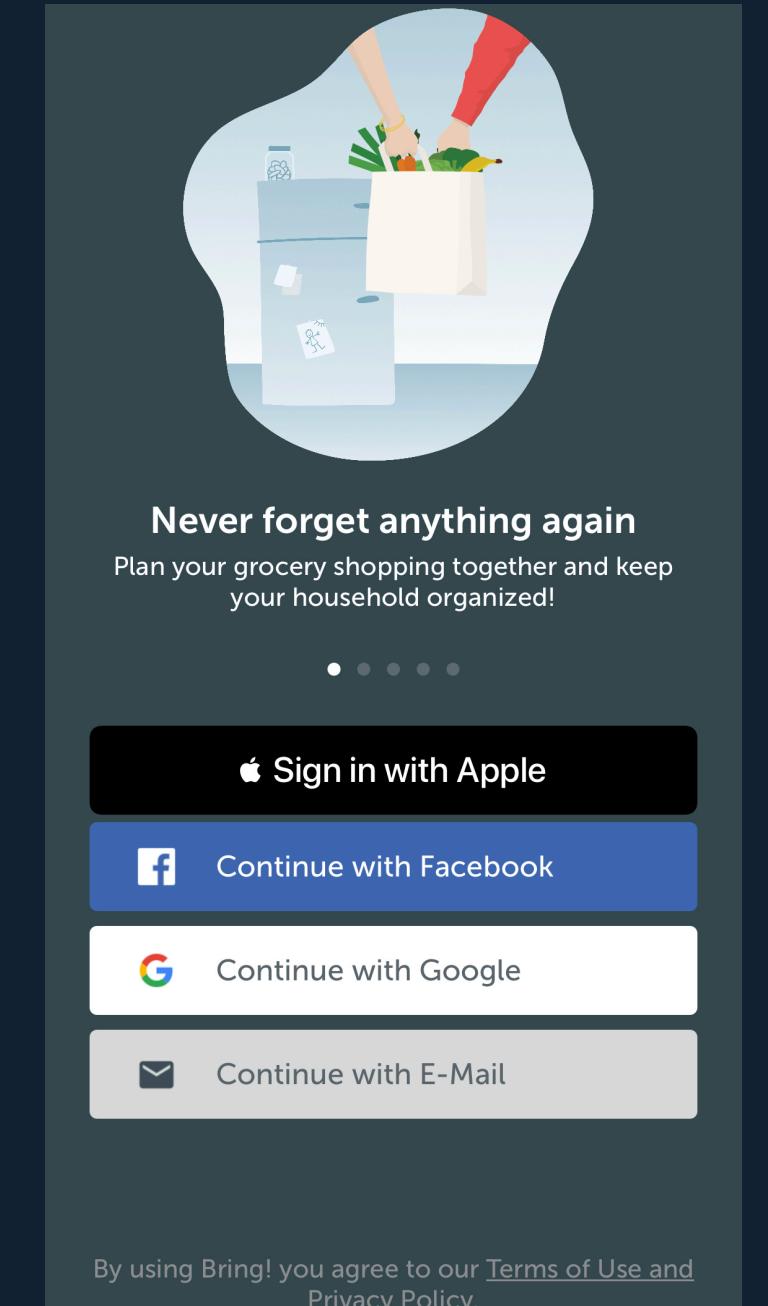
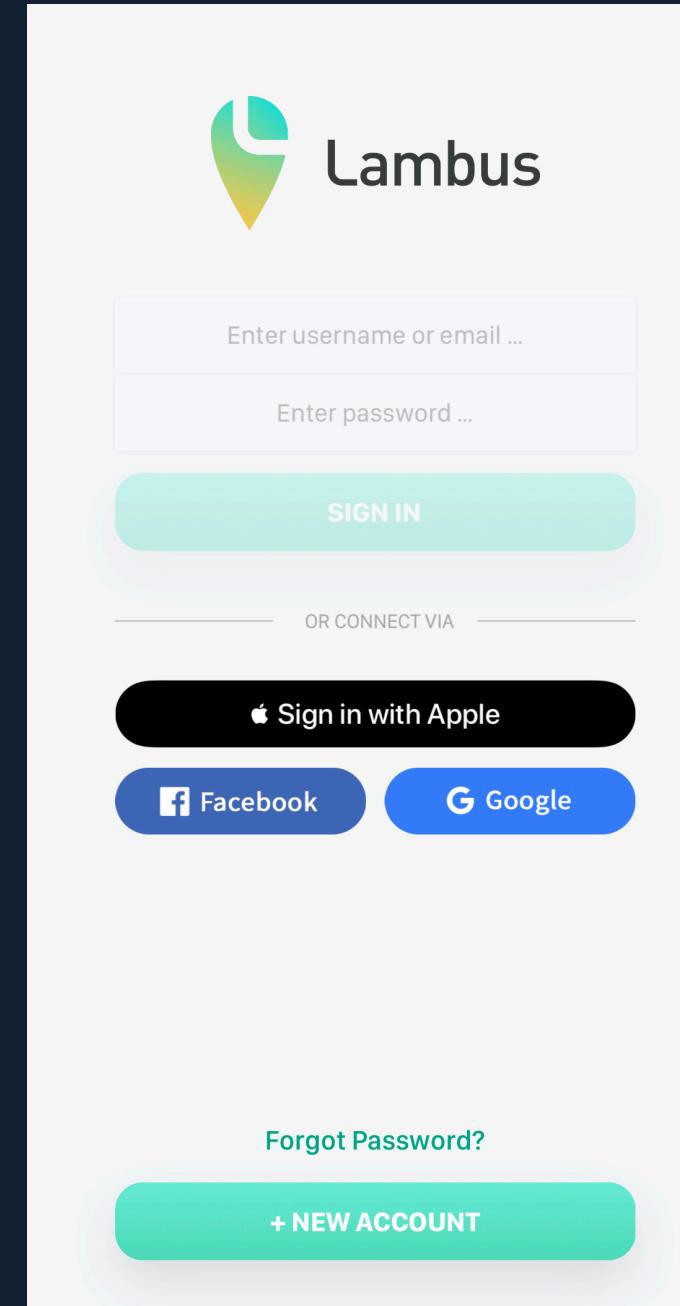
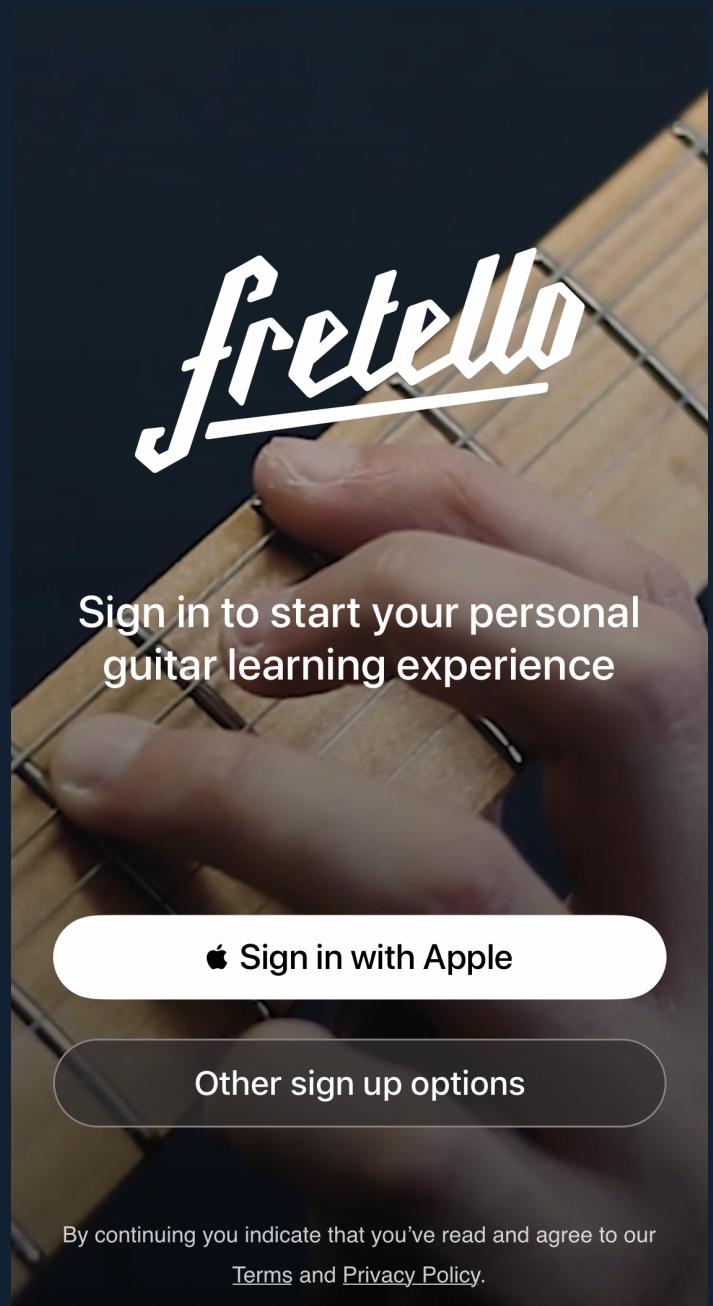
Apps die exklusiv third-party login service nutzen

- » Facebook Login
- » Google Sign-In
- » Sign in with Twitter
- » Sign In with Linked-In
- » Login with Amazon
- » WeChat Login

# WER NICHT

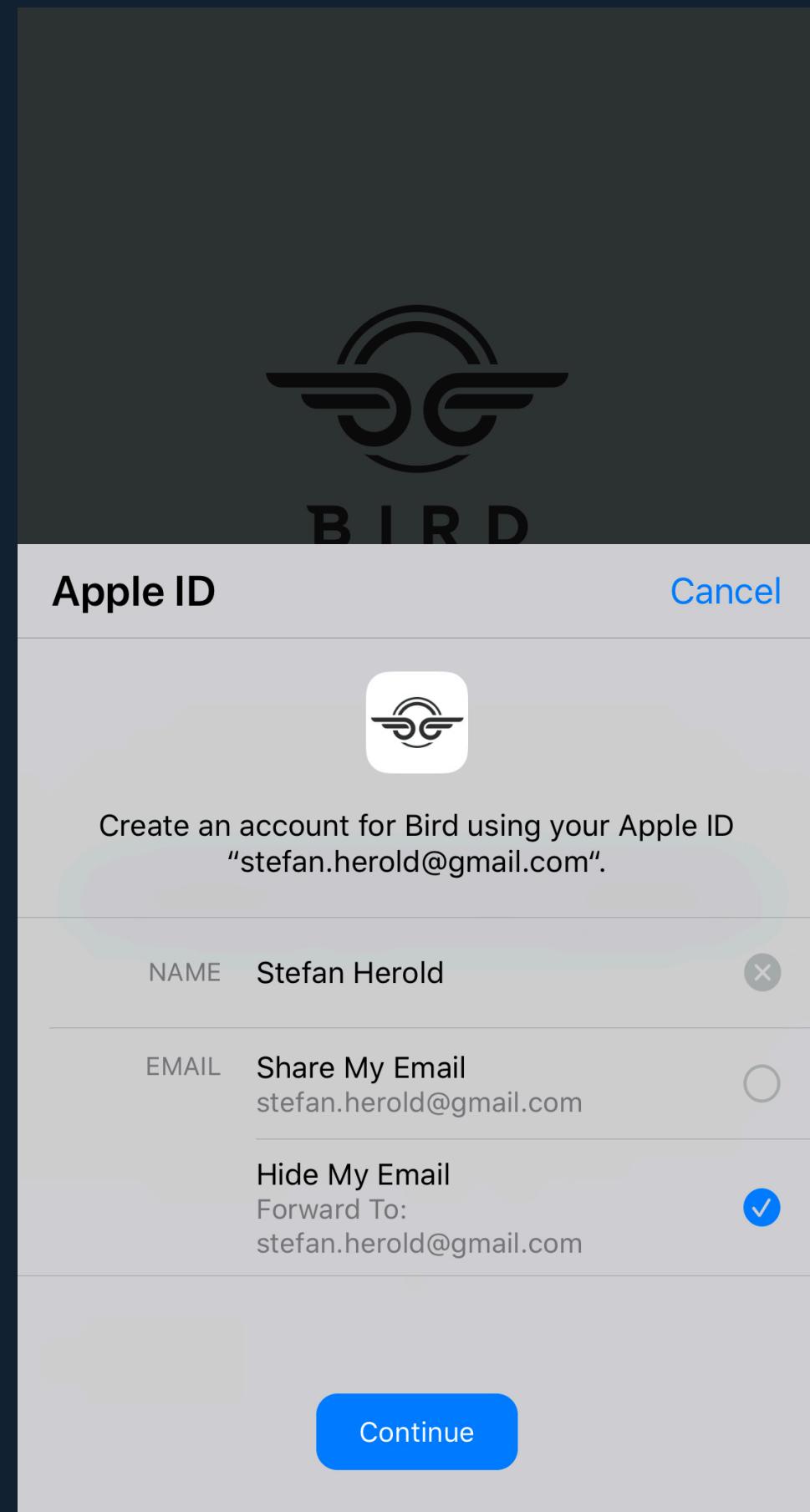
- » App nutzt firmeneigenes Login-System
- » App nutzt ausweisbasiertes Login-System
- » App ist Client für 3rd party / social service
- » Bildungs-, Enterprise- oder Business-App mit existierendem Firmen-Account

# APPS



# REGISTRIERUNG

| APP      | EMAIL | NAME |
|----------|-------|------|
| Bird     | ✓     | ✓    |
| Lambus   | ✓     | ✓    |
| Bring    | ✓     | ✓    |
| Blinkist | ✓     | ✗    |
| Parcel   | ✗     | ✗    |



# REGISTRIERUNG

Folgendes bekommen wir:

- » UserID • eindeutig, stabil über alle Geräte mit gleicher AppleID
- » Identity Token • JWT zur Nutzerverifizierung • 10 min
- » Auth Code • Refresh Token
- » Verifizierte Email • entfällt beim Onboarding
- » Vor- und Zuname • PersonNameComponents
- » Real User Indicator • Boolean: User / Unknown
- » Credential State • authorized, revoked, notFound

# DEMO



# ZUSAMMENFASSUNG

- » Überblick über Vor- / Nachteile
- » Was bedeuten Sicher & Privat
- » Theorie: Registrierung & Login
- » Praxis: Erweitern einer bestehenden App

# VIELEN DANK FÜR'S ZUHÖREN



⚠ Demo App Code & Slides

<https://github.com/Blackjacx/SignInWithApple>

📺 Introducing Sign In with Apple - Session Video Notes

<https://github.com/Blackjacx/WWDC#introducing-sign-in-with-apple>

💻 Apple Docs

<https://developer.apple.com/sign-in-with-apple>

💡 Review Guidelines

<https://developer.apple.com/app-store/review/guidelines/#sign-in-with-apple>

🌐 REST API

<https://developer.apple.com/documentation/signinwithapplerestapi>

🐦 Twitter

@blackjacxxx

# MEHR LINKS

- » Answers to your burning questions  
<https://techcrunch.com/2019/06/07/answers-to-your-burning-questions-about-how-sign-in-with-apple-works>
- » Token Handling im Backend  
<https://blog.curtisherbert.com/so-theyve-signed-in-with-apple-now-what>
- » Ray Wenderlich Tutorial mit SwiftUI  
<https://www.raywenderlich.com/4875322-sign-in-with-apple-using-swiftui>
- » Sign in with Apple für Web  
<https://developer.okta.com/blog/2019/06/04/what-the-heck-is-sign-in-with-apple>
- » 9To5Mac Artikel  
<https://9to5mac.com/2019/10/15/how-to-use-sign-in-with-apple-iphone-ipad-mac>
- » How to integrate Sign In with Apple in your iOS app  
<https://benoitpasquier.com/how-to-integrate-sign-in-with-apple-ios/>
- » Auth0 - Sign In With Apple  
<https://auth0.com/docs/quickstart/native/ios-swift-siwa/00-login>
- » Why sign-in with apple may take you more than 5 minutes and how it works?  
<https://dev.to/michalrogowski/why-sign-in-with-apple-may-take-you-more-than-5-minutes-and-how-it-works-55p6>
- » Erzeugen des Private Keys  
<https://developer.apple.com/account/resources/authkeys/add>
- » Konfiguration erlaubter Email-Adressen  
<https://developer.apple.com/account/resources/services/configure>
- » Why isn't the user data being returned every time?  
<https://forums.developer.apple.com/thread/119826>

# BACKUP

# REGISTRIERUNG

```
func didPressSignInWithApple(_ sender: UIButton) {  
  
    let provider = ASAuthorizationAppleIDProvider()  
    let request = provider.createRequest()  
    request.requestedScopes = [.email, .fullName] // optional - only request what's required  
  
    let controller = ASAuthorizationController(authorizationRequests: [request])  
    controller.delegate = self  
    controller.presentationContextProvider = self  
    controller.performRequests()  
}
```

# LOGIN

Beim Appstart:

```
let provider = ASAuthorizationAppleIDProvider()  
  
provider.getCredentialState(forUserID: userId) { (state, error) in  
    // evaluate state  
}
```

State-Änderungen:

```
let name = ASAuthorizationAppleIDProvider.credentialRevokedNotification  
center.addObserver(forName: name, object: nil, queue: nil) { [weak self] _ in  
    self?.performSignOut()  
}
```