- Authentication is based on one or more of the following factors:
 - Knowledge something you know, like a password.
 - Possession something you have.
 - Inherence something that you are (biometric data).

- Passwords
 - Strong passwords are long.
 - Switching case is helpful.
 - That's it more characters means more possibilities for bad actors to deal with.
 - You will see contradictory advice on this...

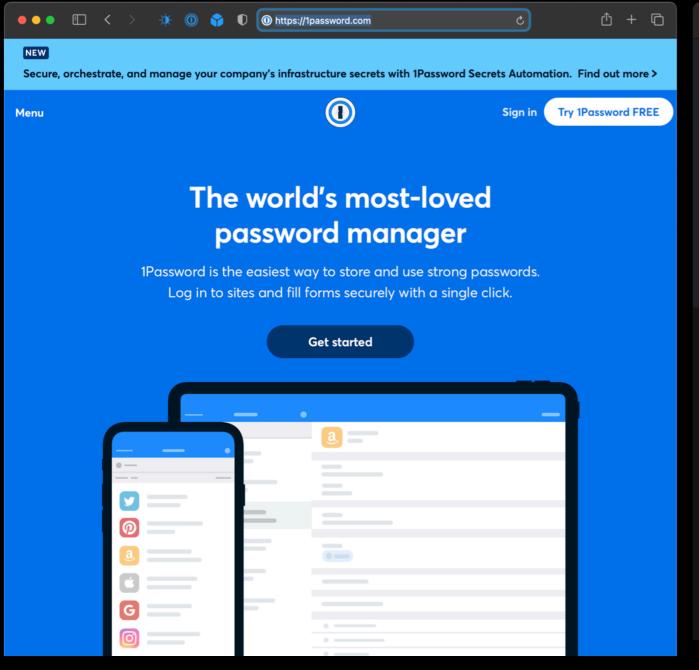
Safe Computing

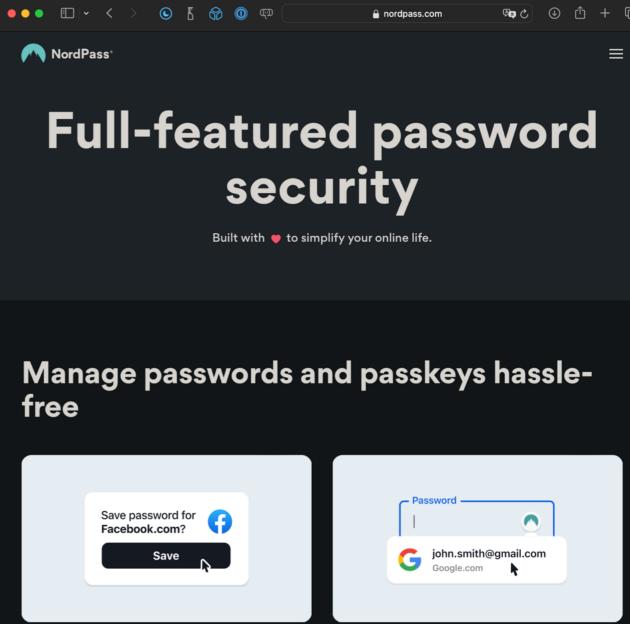
User Authentication



- How are passwords found by bad actors?
 - Educated guesses
 - Knowledge you have shared on social media
 - Brute force (trying all possible combinations)
 - Stuffing (get credentials for one site, use on another)
 - Phishing

- How to avoid problems with your passwords?
 - Use a password manager!
 - No, really.
 - Use a password manager.
 - iCloud Keychain across Apple platforms
 - <u>1Password</u> is an amazing password manager.
 - And a Canadian company!
 - Nordpass





- Passkeys
 - Passwords are problematic, despite the existence of password managers
 - Passkeys are a new, cross-platform, cross-vendor standard
 - Passkeys are an implementation of the WebAuthentication or WebAuthn standard, which uses public-key cryptography to secure accounts
 - No need to remember passwords; uses information inherent to who you are for authentication (biometrics via another device)
 - Here is a good overview of what passkeys are and how to use them

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User Authentication



iOS/Mac Android Windows Web

- Passkeys demo
 - GitHub login

