Research Project: Account Task: [3056] Amable Rodríguez v1.0 / 2018-07-24

Reset password

Come up with a strategy for resetting password with email you no longer have access to.

Digital Collaboration Division, Chief Information Officer Branch Treasury Board of Canada Secretariat / Government of Canada

Division de la collaboration numérique, Direction du dirigeant principal de l'information Secrétariat du Conseil du Trésor du Canada / Gouvernement du Canada

Document revisions

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1.0	Document creation	Amable Rodríguez	2018-07-24
1.1	Added "Results and Recommendations" section	Amable Rodríguez	2018-07-31

Table of contents

Team	4
Context	5
Research Scope	6
Current State Recovery email No access to email account	7 7 8
Case 1: Recovery email Apple Yahoo	9 10 11
Case 2: Phone number Apple Google	13 14 17
Case 3: Security questions Apple	20 21
Results and Recommendations	23
References	24

UX Research : Account - [3056] Password reset

3

Team



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Context

Problem:

User gets a new job at new department, gets new email address, no longer able to reset password as no longer able to receive email.

Goal:

Come up with strategy to handle this situation. possible options are text, alternative email, etc. Look into whats best for our users and what we can be securely offered.

Research Scope

Current state:

How reset password functionalit works currently in **GCcollab**? What happens when the user does not have access to the email assocuated with their account?

Case 1: Recovery email

How Apple and Yahoo handle their password reset through the use of a secondary email?

Case 2: Phone number

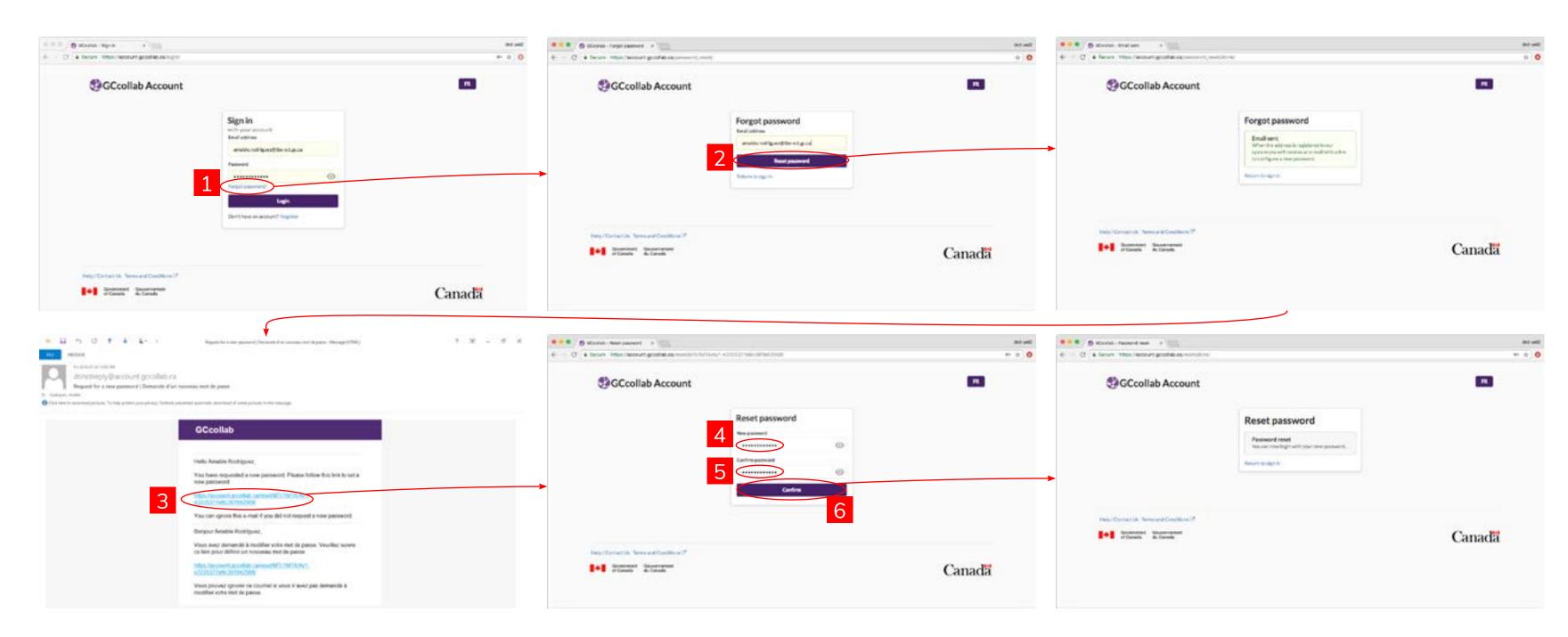
How the two-step verification works for Apple and Google?

Case 3: Security questions

How **Apple** make use of the security questions in order to allow the user to reset their password as an alternative athentication method?

Current state: Recovery email GCcollab

Using the user id email to receive reset password link

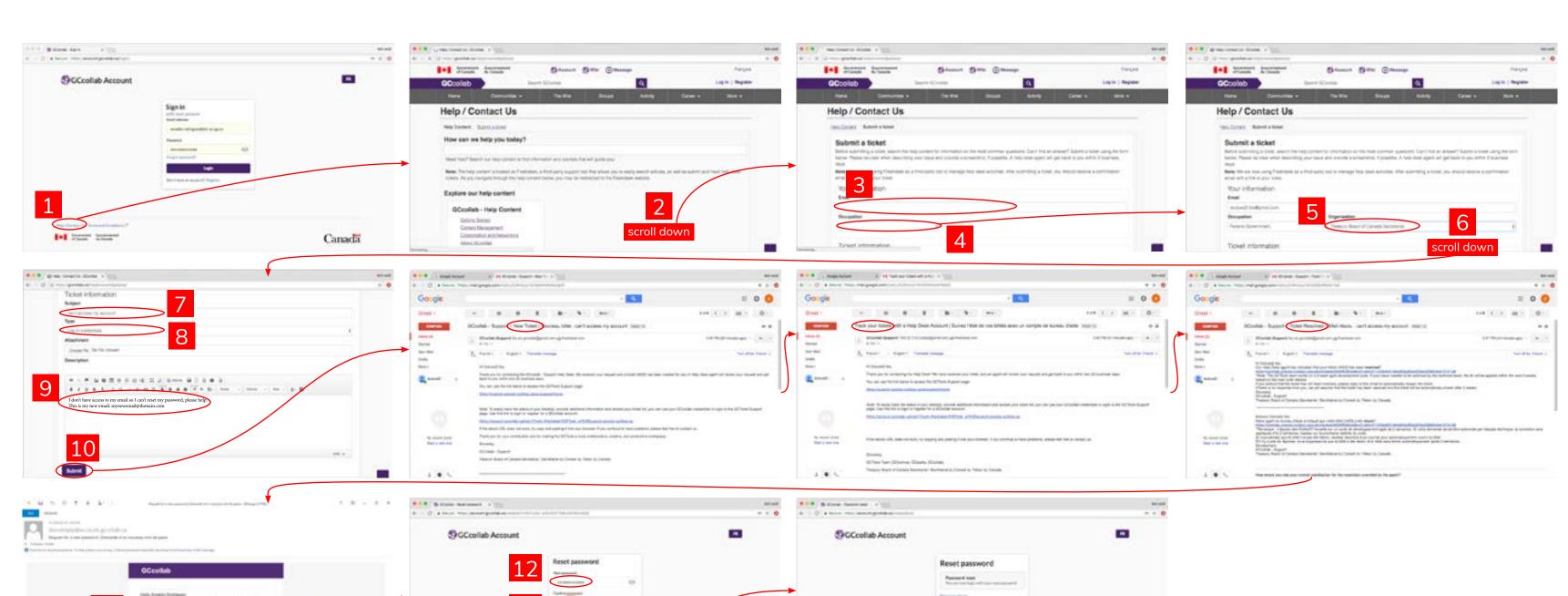


Current state: No access to email account GCcollab

141 June Dress

Asking for help when there is no access to the user id email account:

- a) Help-desk receives the ticket, identify the right user profile, update the email account and send the password reset link to this new address (1 to 10)
- b) From there the user follows the reset password link to their new email account (11 to 14)



Canada

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Case 1: Recovery email

1.1. Apple

- Apple offers recovery email access as one option for the user to reset their password¹
- A link is sent to the user's recovery email¹

1.2. Yahoo

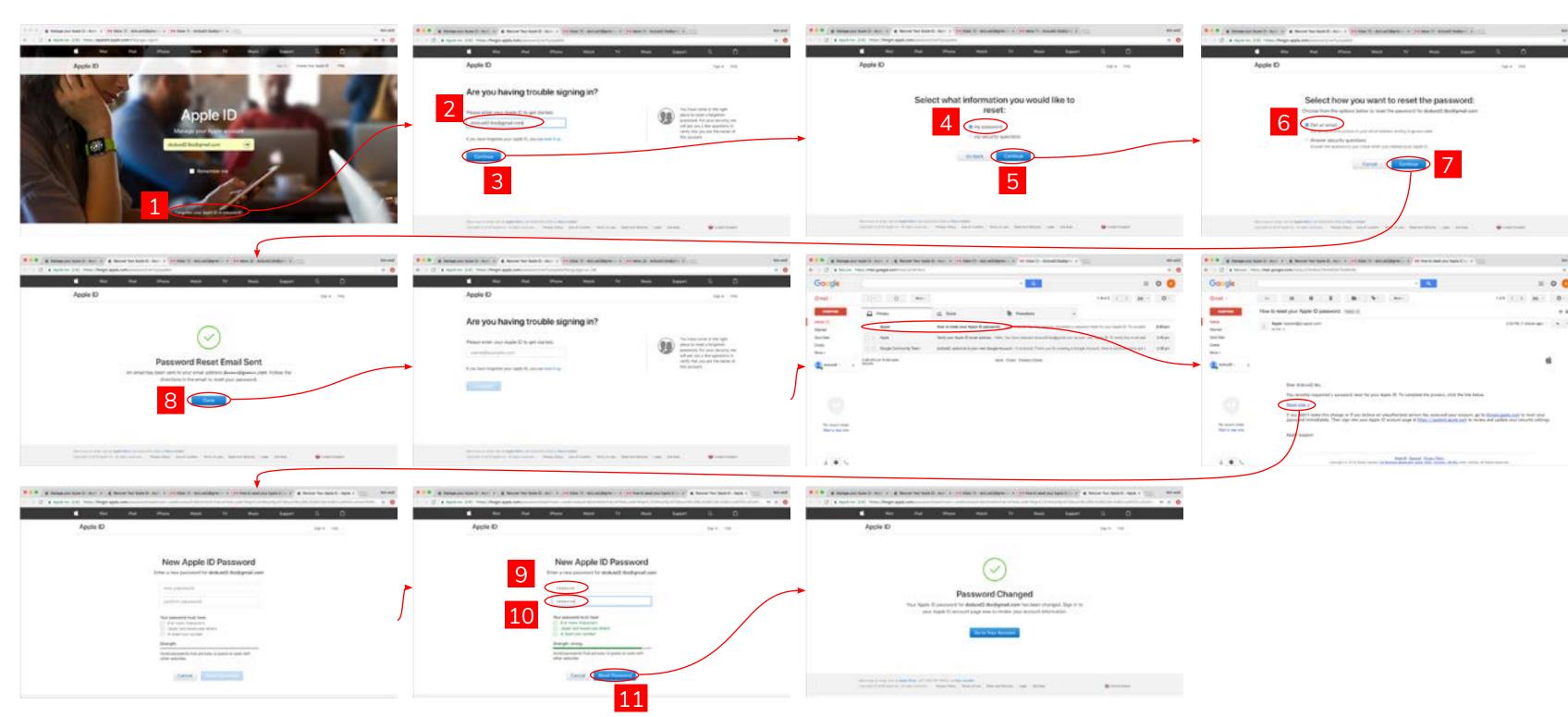
- Yahoo! users can add a recovery email address as an option to reset their password²
- A link is sent to the user's recovery email (user can add/replace as many as 10 email addresses on their account)²

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Case 1: Recovery email 1.1. Apple

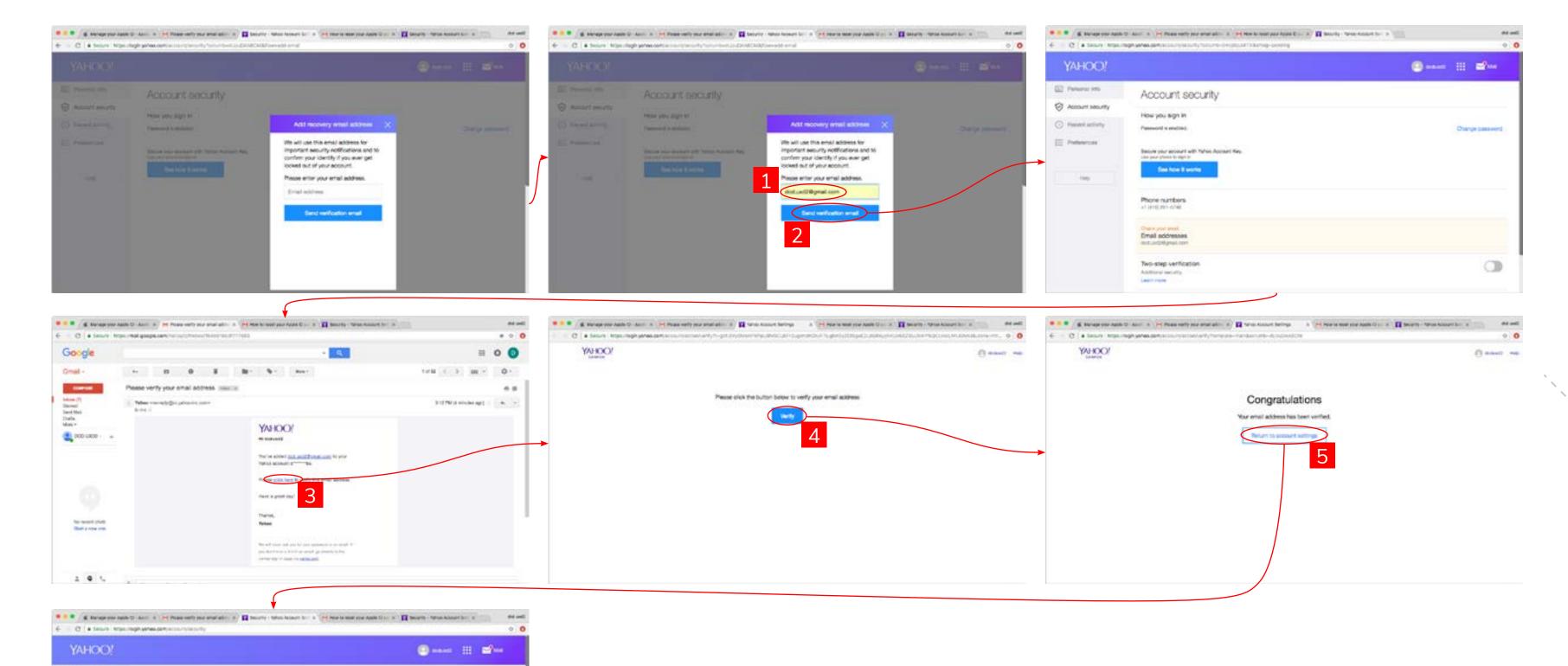
Using the user id email to receive reset password link



Case 1: Recovery email 1.2. Yahoo

GZ Personal Into (i) Heated activity

a) Adding a secondary email



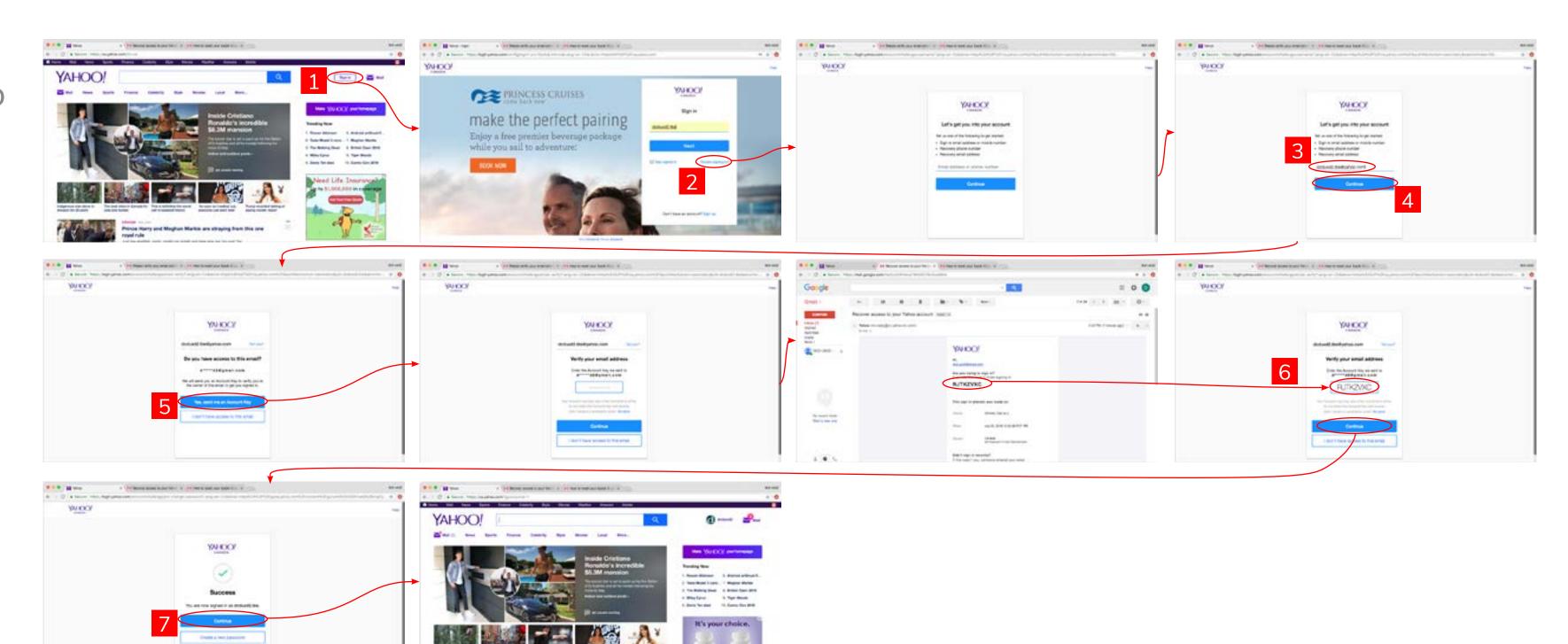
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Case 1: Recovery email

1.2. Yahoo

b) Using the recovery email to reset the account password



Case 2: Phone number

2.1. Apple

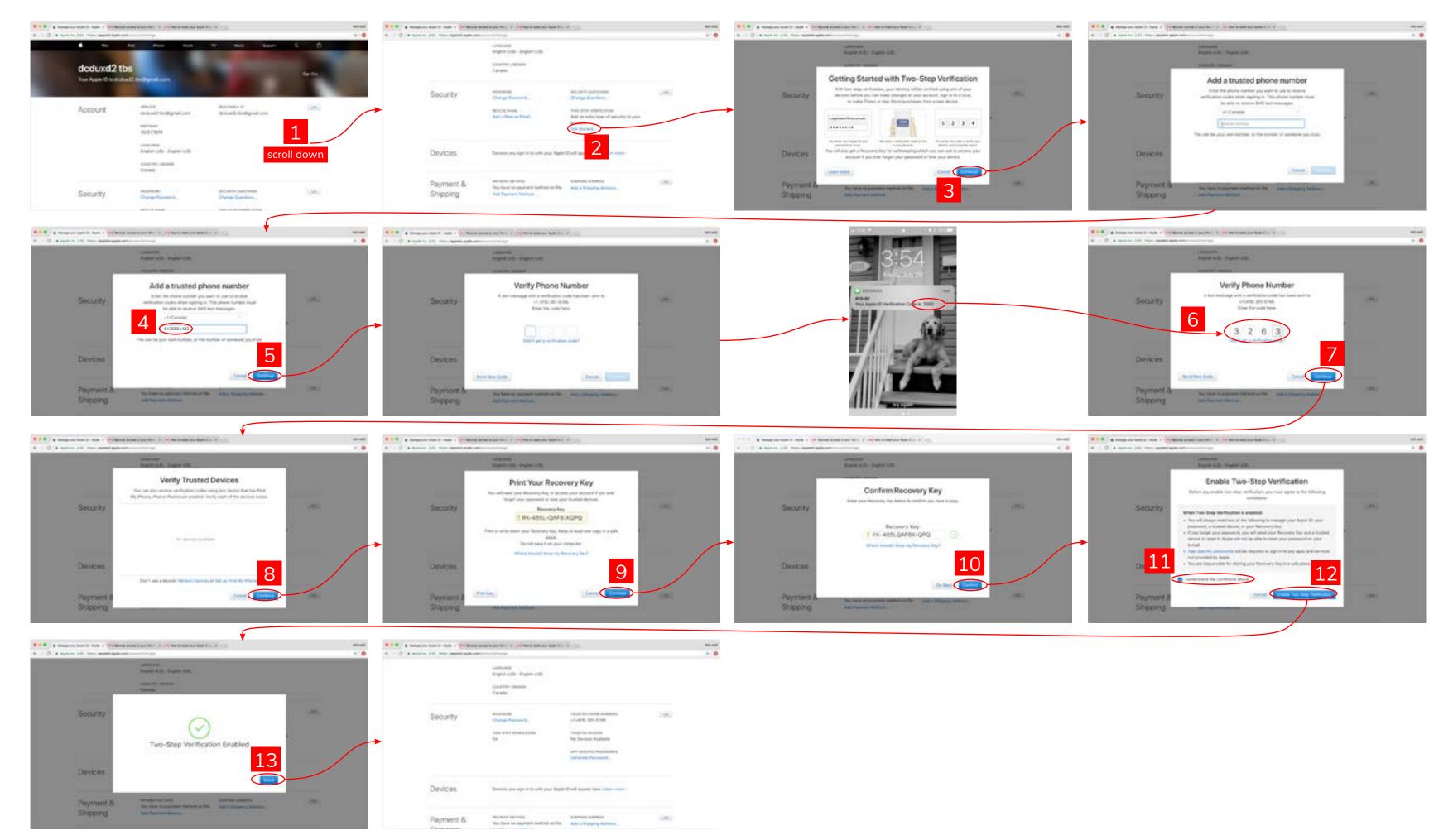
- Apple offers two-step phone access as an option, so the user can reset their password¹
- A verification code is sent to the user's additional trusted device to be inputted online (similar concept for their emerging method: "two-factor" authorization for multi-Apple device users, a "recovery key" is sent)¹

2.2. Google

- Google will request a phone number for two-step verification processes to protect against unauthorized device use³
- A verification code is sent to the user's device to be inputted online (code is unique mix of numbers meant for one-time use)³

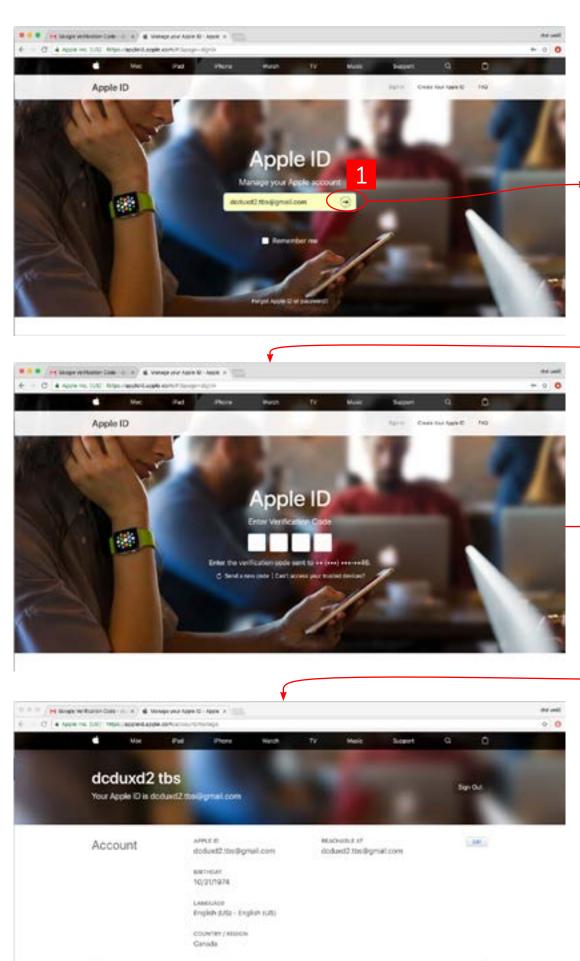
Case 2: Phone number 2.1. Apple

a) Adding a recovery phone number as part of two-step verification



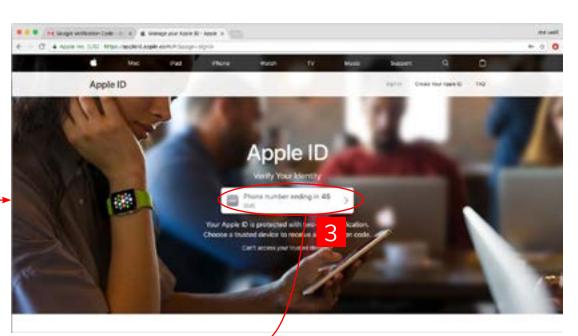
Case 2: Phone number 2.1. Apple

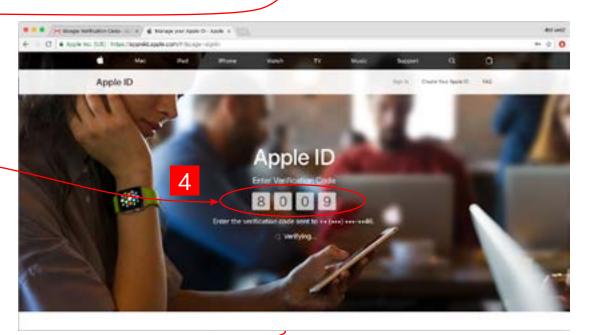
b) Login in using phone number as part of two-step verification





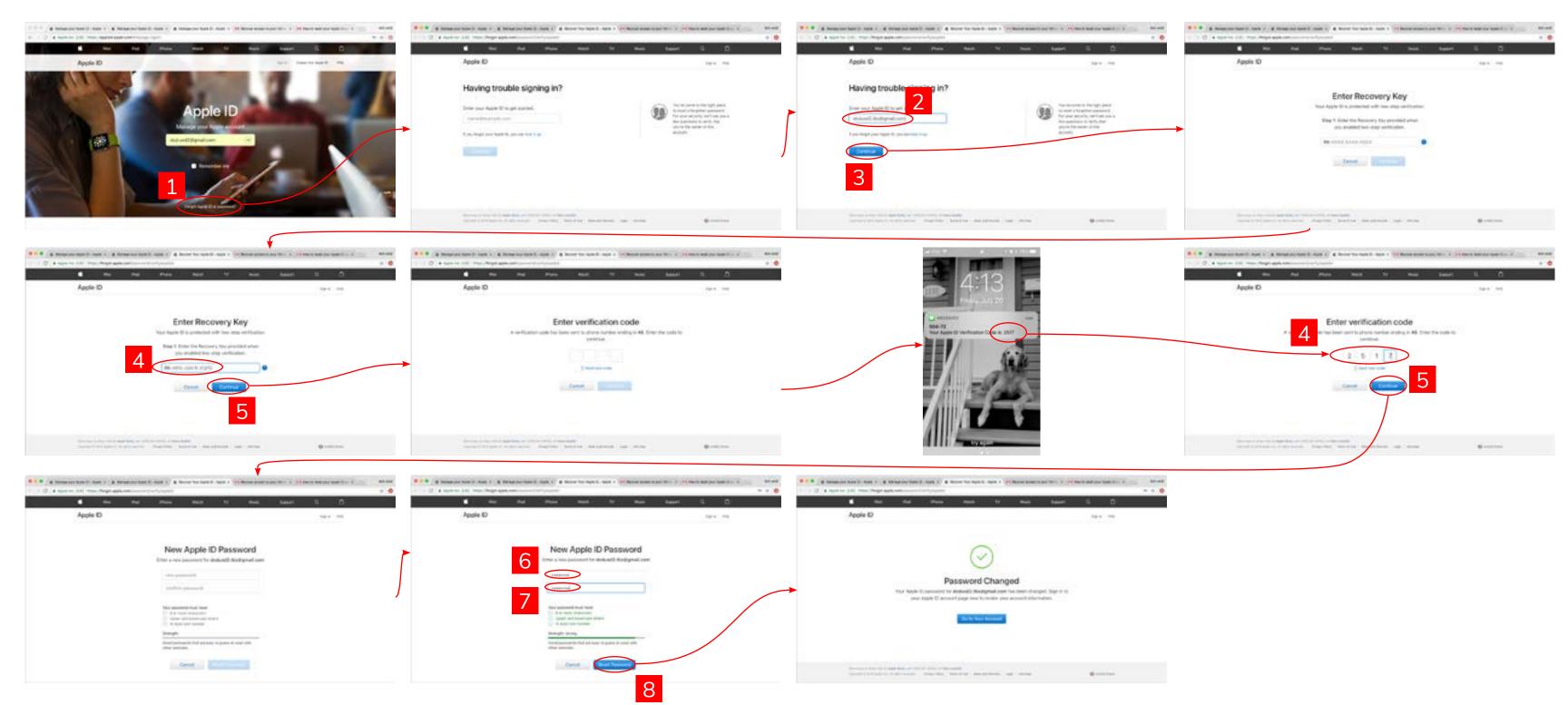






Case 2: Phone number 2.1. Apple

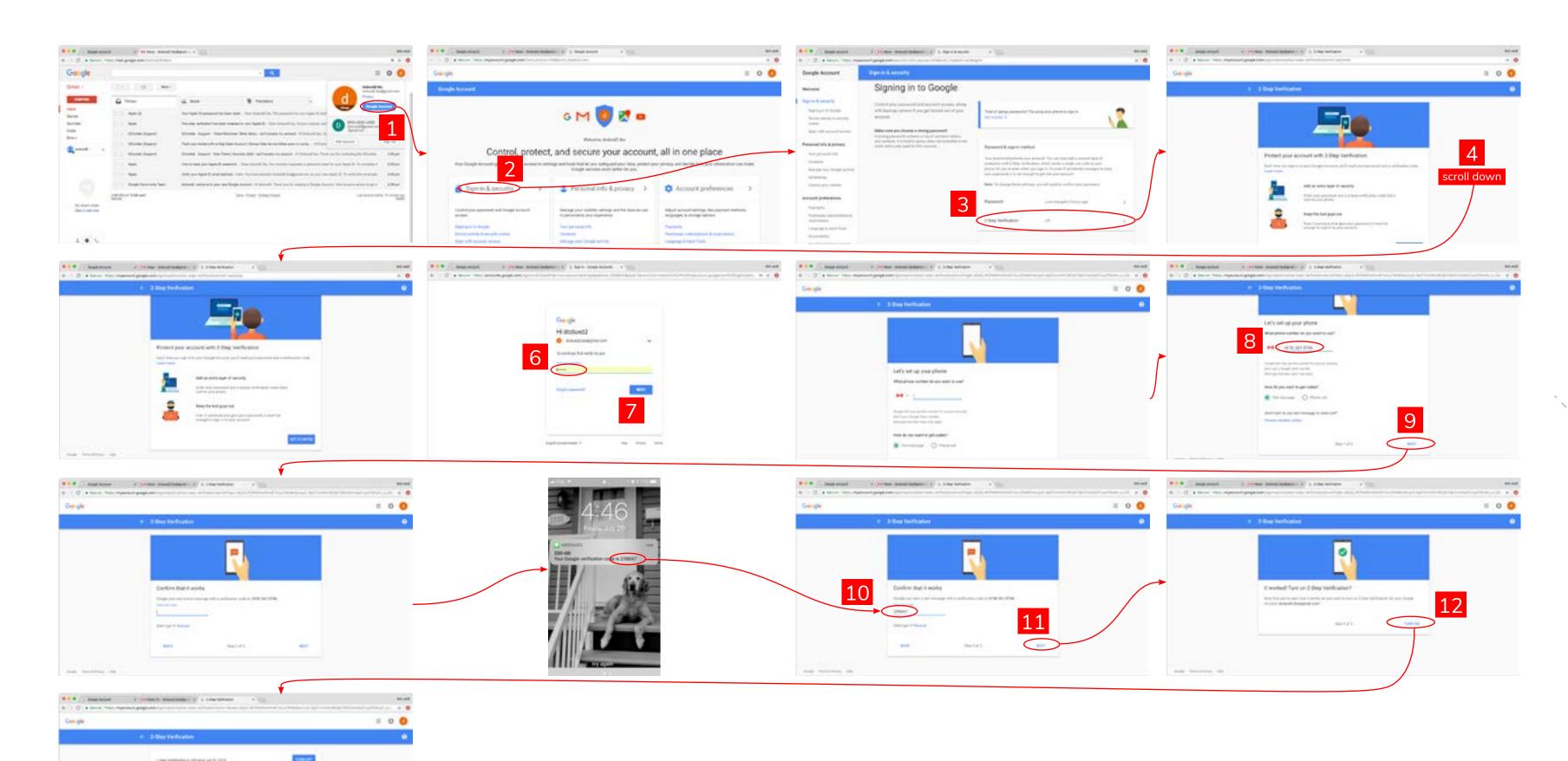
c) Recovering access using phone number



Case 2: Phone number

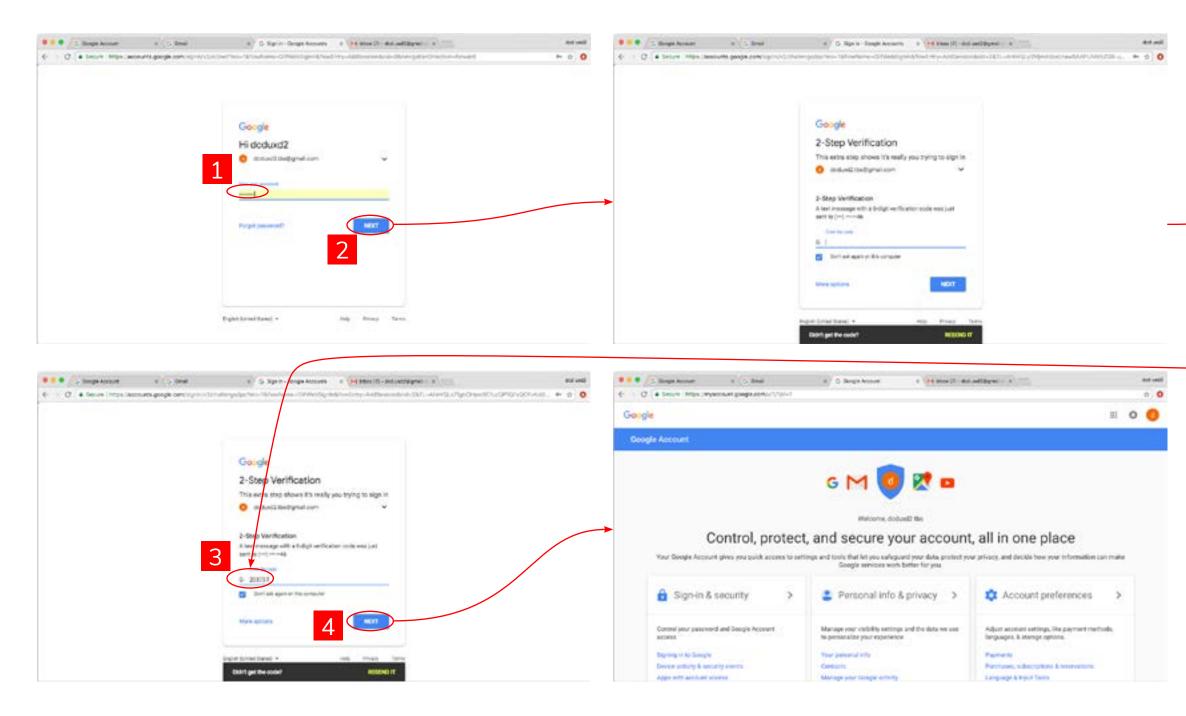
2.2. Google

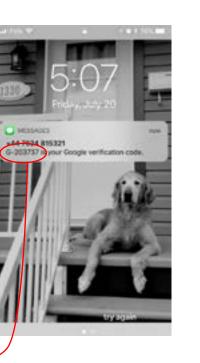
a) Adding a recovery phone number as part of two-step verification



Case 2: Phone number 2.2. Google

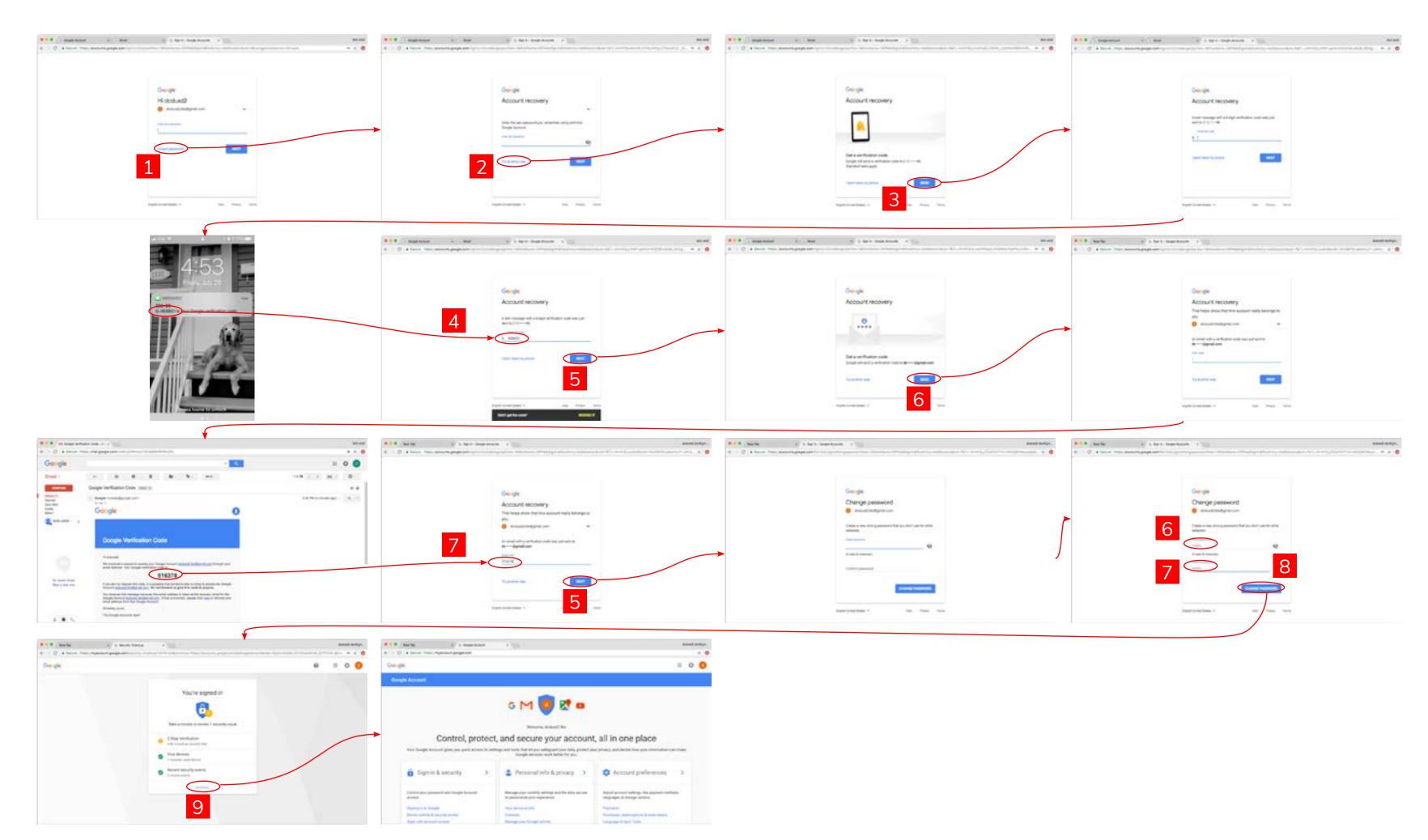
b) Login in using phone number as part of two-step verification





Case 2: Phone number 2.2. Google

c) Recovering access using phone number



Case 3: Security questions

Apple

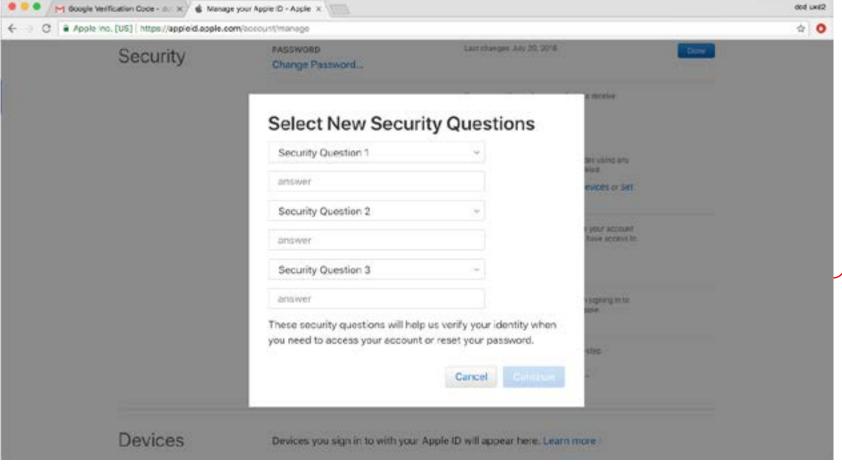
- Apple offers security questions as one option to reset their password¹
- The user must answer a set of questions with the correct response to receive access to the ability to make their desired password changes¹

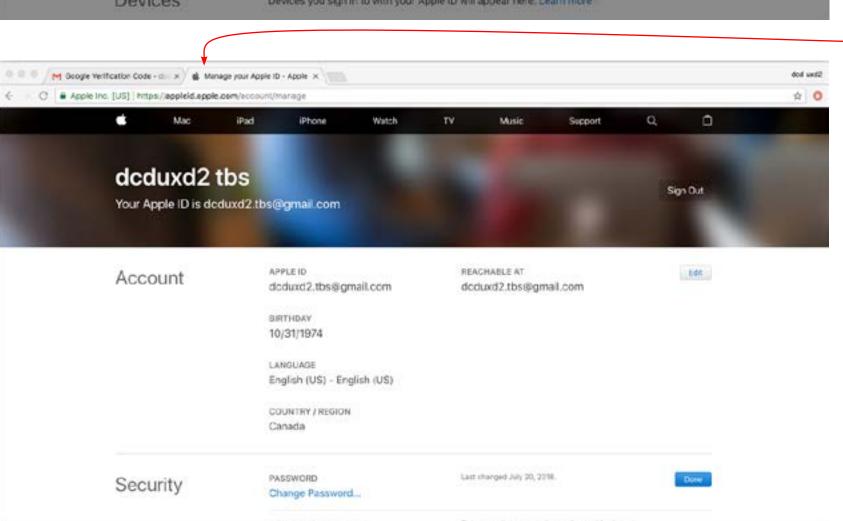
TD web-banking (no task flow were done)

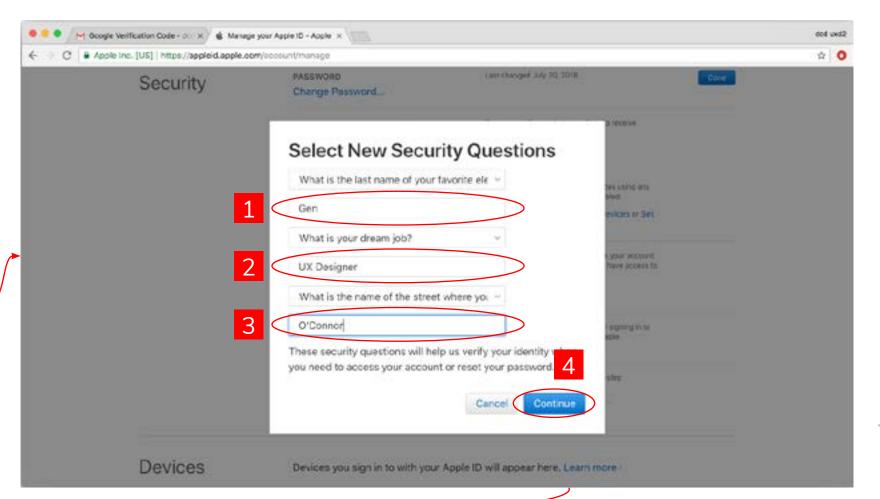
- Regardless of attached phone/email contacts, TD web-banking demands five security questions (answers include letters, no spaces etc.) be answered to protect against unauthorized account use⁴
- The user must answer a set of questions with the correct response (no additional characters) to receive access to the ability to make their desired changes⁴
- Note: TD is moving towards two-step verification with emphasis on text or voice etc.4

Case 3: Security questions Apple

a) Adding sequrity questions

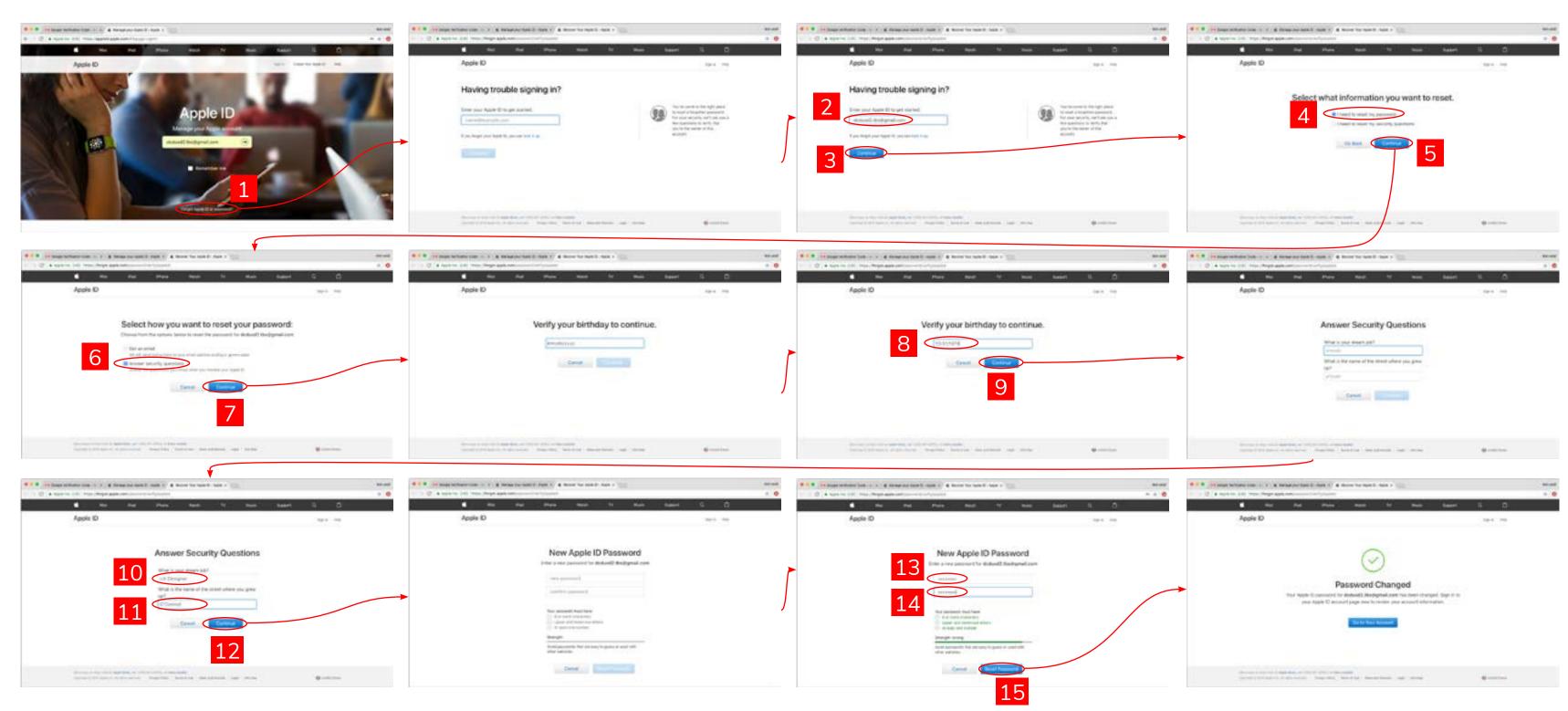






Case 3: Security questions Apple

b) Answering security questions to reset password



Results and Recommendations

Key messages from prior conversations with Legal:

• Legal services has confirmed that we possess the legal authority to run the GCTools as a whole

Key messages from recent conversations with the **Information and Privacy Policy Division (IPPD)**:

- IPPD highlights that we should limit the collection of personal information to what is necessary.
- IPPD suggests that we explore/consider options that would not require collection of additional personal information.
- IPPD highlights that regardless of the consent to collect, we must determine our legal authority to collect.
- IPPD posed one option to consider: the security questions.
- IPPD suggests consultations with legal, IT Security, and Cyber Security.

References

1 Apple reset password support page

https://support.apple.com/en-ca/ht201487

2 Yahoo help page on how to add additional recovery methods

https://help.yahoo.com/kb/SLN2058.html?guccounter=1

3 Google page about stronger security on Google accounts

https://www.google.com/landing/2step/#tab=how-it-works

4 TD FAQ page, answer about what happens if user forgets answer to security questions

http://td.intelliresponse.com/easyweb/index.jsp?requestType=Normal-Request&id=742&question=What+if+I+forget+the+answers+to+my+T-D+IdentificationPlus+questions
swers+to+my+TD+IdentificationPlus+questions

UX Research : Account - [3056] Password reset

74