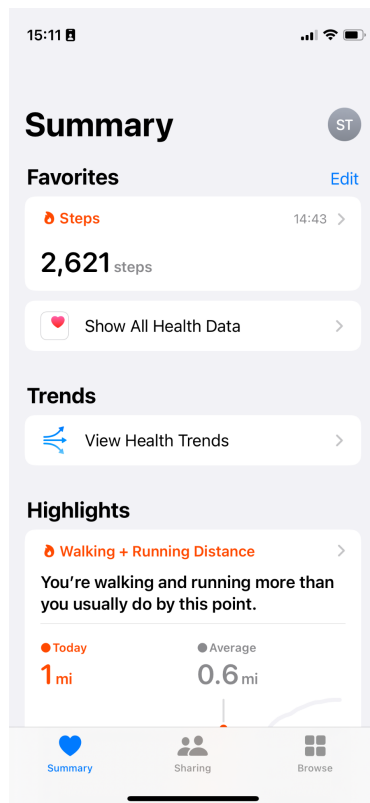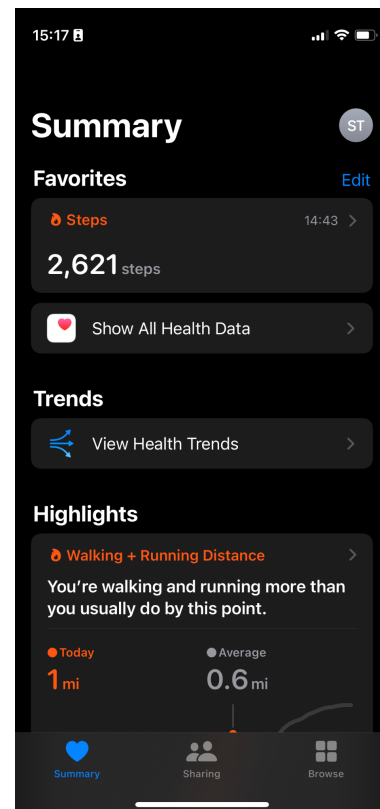**Stephen Tambussi**
COEN268 - Assignment 1
Group 4

Apple's Health app is one of the most popular health applications on mobile devices. As such, it follows the material design principles almost entirely. Specifically, the Health app follows the color system for material design by including primary, secondary, background, and data visualization colors, while also having alternative colors for light and dark themed modes.
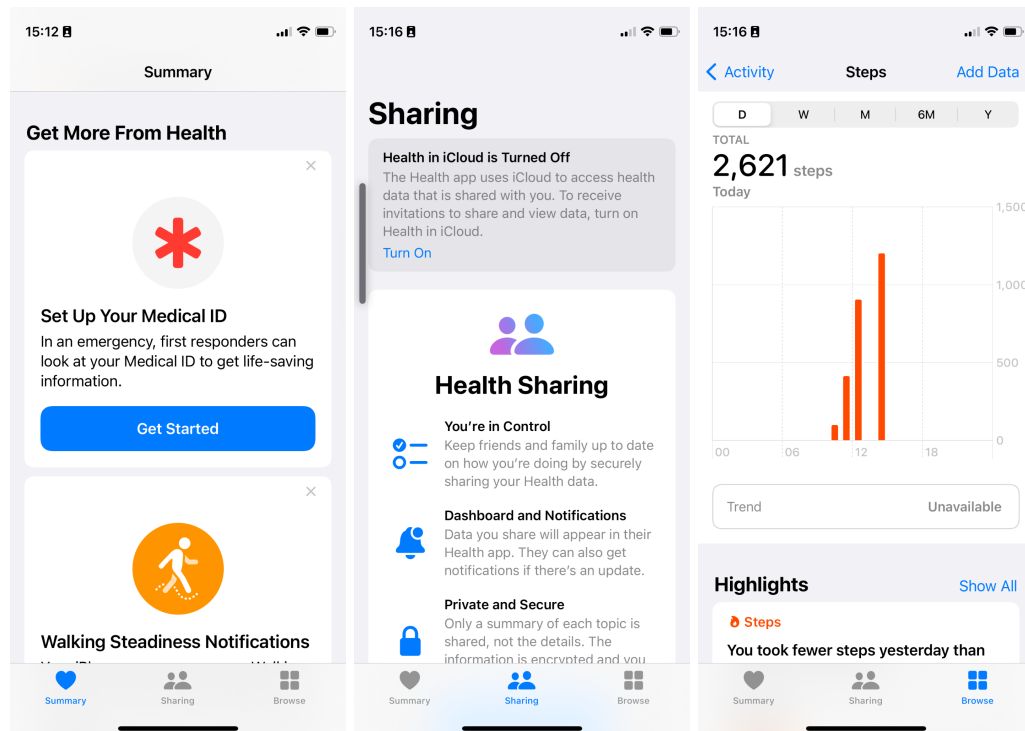
Color Analysis

Light Mode

Dark Mode - Alternative Colors

As shown in the above two screenshots, Apple's Health app follows the outlined color system for material design. Offering both light and dark modes, the app utilizes alternative colors to maintain legibility of the content. The following outlines the app's usage of the material design color system:

- Primary color: displays most frequently across the app and in this case is the system bar at the bottom containing "Summary," "Sharing," and "Browse."
    - Light mode: light gray (#f7f7f7)
    - Dark mode: dark gray (#292929)
- On primary color: appears on the primary color surface and is most prominent on the system bar with the inactive tabs.
    - Light mode: dark gray (#989492)

- Dark mode: dark gray (#878788)
- <u>Secondary color</u>: accent elements and in this app it is the blue that highlights the currently selected app tab along with the "Edit" button at the top right.
  - Light mode: blue (#007aff)
  - Dark mode: blue (#0584ff)
- <u>Surface color</u>: affects surfaces of components, such as cards, sheets, and menus. In the app, it is components containing data such as "Steps."
  - Light mode: white (#ffffff)
  - Dark mode: dark gray (#1c1c1d)
- <u>On surface color</u>: appears on the surface color and is most prominent on the number of steps data component.
  - Light mode: black (#000000)
  - Dark mode: white (#ffffff)
- <u>Background color</u>: appears behind the scrollable content. In the app, it appears behind the surfaces which are white in light mode and dark gray in dark mode.
  - Light mode: light gray (#f2f2f6)
  - Dark mode: black (#000000)
- <u>On background color</u>: appears on the background color and is most prominent in the app text "Favorites," "Trends," and "Highlights."
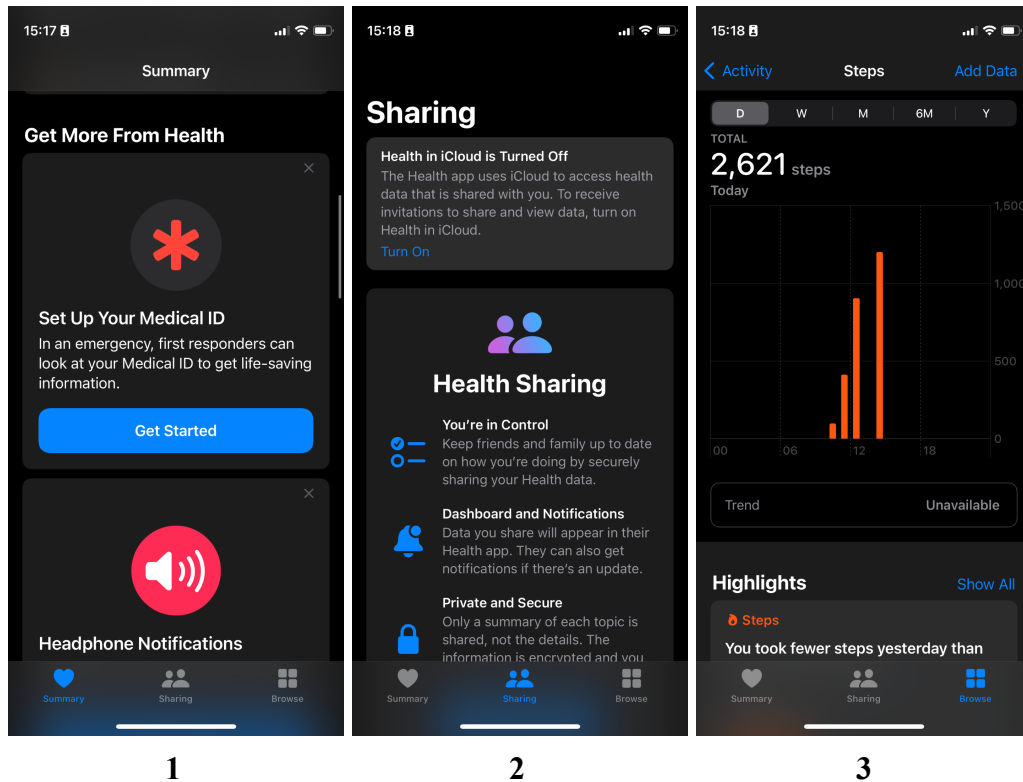 - Light mode: black (#000000)
  - Dark mode: white (#ffffff)

Light Mode

1   **2**   **3**

Dark Mode

Continuing the analysis of the Health's app usage of the material design color system:

- <u>On secondary color</u>: appears on the secondary color (blue) and is most prominent on the "Get Started" button in screenshot 1 of light and dark mode.
    - Light mode: white (#ffffff)
    - Dark mode: white (#ffffff)
- <u>Data visualization color</u>: an additional color to convey categories outside the main color theme and is most prominent on the steps chart in screenshot 3 of light and dark mode.
    - Light mode: orange (#ff4900)
    - Dark mode: orange (#ff5712)

While the Health app almost completely follows the material design color system, it lacks primary and secondary color variants as well as an error color. Like most Apple apps, the Health app's design is inline with their minimalistic style and any errors that occur are displayed with the same color theme as the rest of the app's components. Nevertheless, the app does a good job at complying with the guidelines defined by the material design color system.