Project Background

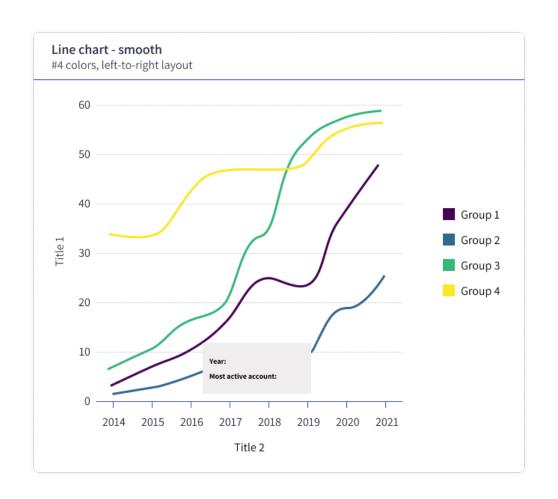
As the computing context broadens, everyone has to interact with digital technologies everyday. Our digital encounters influence and define parts of our everyday lived experiences. The digital experiences are by design, with the chase for short-term revenue return and market growth, companies are using dark patterns, manipulative design patterns, to trick people into clicking, subscribing, downloading, or giving out personal data.

Researchers and practitioners are finding ways to train employees and companies to build ethical awareness. However, these trainings and design knowledge don't always reach everyday technology users, more efforts are needed to help everyday users recognize and defense themselves against dark and manipulative design patterns.

The first step in achieving this goal is to understand how people currently view on dark patterns, and their sensitivity towards dark patterns.

Task 1: Line Chart

視覺化年份與 tweet 類別分佈折線圖,可看出不同年份中 tweet 類別的分佈。以年份 (Year)為橫軸,description_group 次數統計為縱軸 (null 資料可直接忽略不計), 另加上 Tooltip,滑鼠移到折線上時可以顯示該年度最活躍的 account。 結果示意:



Task 2: WordCloud

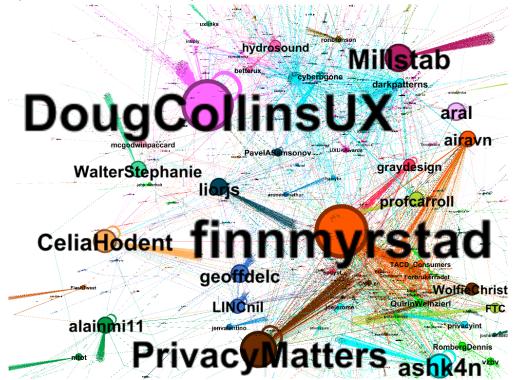
使用 WordCloud 視覺化年份與 tweet 關鍵字,關鍵字使用 tweet_final 中 tweet 內容欄位。請加入讓使用者可操作的 slide bar,讓使用者可選擇年份呈現不同的WordCloud。字體顏色對應類別,字體大小對應次數統計。結果示意:



Task 3: Tweet Network

視覺化帳號之間 retweet 的連結。每個節點代表一個 user account,節點之間連結的現代表另一帳號 retweet 了此帳號的 tweet (referenced_tweet)。請以節點尺寸表示 account 的 followers 數量,以顏色表示 retweet 帳號所屬的 description_group,並在圖表旁邊加上 legend。

結果示意(請忽略此圖中的關鍵字):



Dataset

Tweets from 2010 to 2022

tweets_final

tweet_user_info

Note: description_group in the tweet_user_info maps to discipline in the

tweets_final