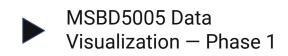
Data

#### **BEST VIDEO CONTENT for**

## OVER-THE-TOP (OTT) STREAMING SERVICE







Group 16: Chan Kar Chun (20729353), Lakhani Harsh Sunil (20910249), Tsang Kai Ho (20905476), Wong Yan Ho (20605624)

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Tools to be used

Our temporary visualizations











Data





#### DATA — Overview

Streaming Platform	Number of Features	Number of Videos	TV Show Percentage	Movie Percentage
Amazon Prime Video	18	9871	14%	86%
Disney+	18	1535	27%	73%
HBO Max	18	3294	23%	77%
Netflix	18	5850	36%	64%







#### **DATA** — General Structure

Attributes	Description	Attributes	Description	
id	The video ID provided on JustWatch	seasons	The number of seasons of a show	
title	The name of a video	name	The name of the actor/actress of a video	
type	TV show or movie	character	The character name of the actor/actress in the video	
description	A brief description of a video	role	Actor/actress or director	
release_year	The year of release of a video	imdb_id	The video ID on IMDb	
age_certfication	Age certification for a video	imdb_score	The score of a video on IMDb	
runtime	The length of a movie or an episode of a TV show	imdb_votes	The votes of a video on IMDb	
genres	The genres of a video	tmdb_score	The score of a video on TMDb	
production_countries	The countries produced a video	tmdb_popularity	The popularity of a video on TMDb	







#### DATA — Source

Streaming Platform	Source URL		
Amazon Prime Video	https://www.kaggle.com/datasets/victorsoeiro/hbo-max -tv-shows-and-movies		
Disney+	https://www.kaggle.com/datasets/victorsoeiro/amazon- prime-tv-shows-and-movies?select=titles.csv		
HBO Max	https://www.kaggle.com/datasets/victorsoeiro/amazon-prime-tv-shows-and-movies?select=titles.csv		
Netflix	https://www.kaggle.com/datasets/victorsoeiro/amazon- prime-tv-shows-and-movies?select=titles.csv		







# PURPOSE ())







#### I PURPOSE



#### **BACKGROUND**

Survey findings indicate that although Amazon offers more content, Netflix reigns as the more popular streaming service. This could be because of the quality of content.



#### GOAL

Our aim is to help Content Producers create popular content by analyzing various attributes of movies and TV shows and providing valuable insights.



#### **TASKS**

Explore the optimal combination of attributes that drive popularity in video content.









## INITIAL PLAN





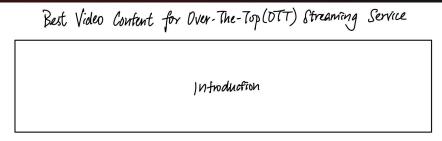
# System Design Introduction

Introduction

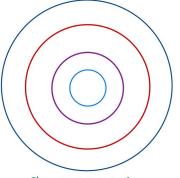
Overview

In-depth Analysis

Recommendation



# of videos released by each platform



Show the data implicitly Give a general view # of videos released by each platform over years

	1700	1970	(700	1970	2000	2010	2020
frime	KEX	Xxx	xxx	xrx	κø	<b>₩</b>	XXX
Netflix	XFX	Xes	Xxx	XFX	<b>አ</b> ø	Юœ	Khor
HBO	Krx	Xxx	Kĸĸ	xrx	አ <sub>ኞ</sub>	1000	100c
Disneyt	KFX	Xxx	Kĸĸ	KFX	ĸ፠	King-	Roc

Show the data explicitly categorize by years (decades) can show the trend.





Introduction

Overview

In-depth Analysis

Recommendation

Overview - Describe our dataset

. compare candidate attributes with "popularity"

Description of data

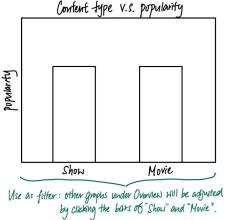
• # of videos, attributes • details of attributes

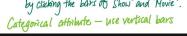
• popularity measure: Popularity Index per Content (PIC)

PIC = avg ( normalized normalized PIC)

PIC = avg ( normalized normalized Normalized)

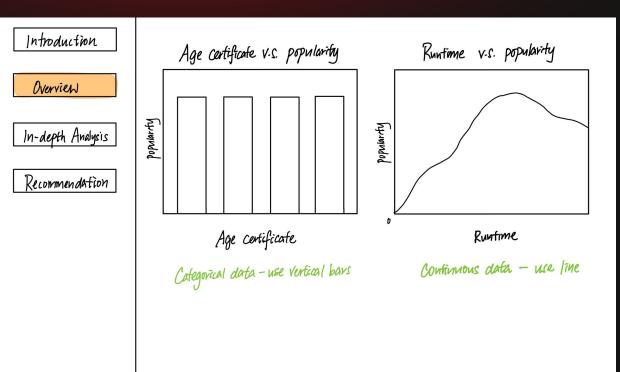
Heat map to see the correlation of each attribute





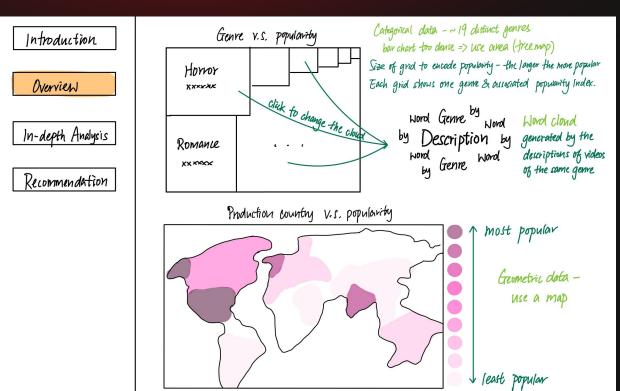














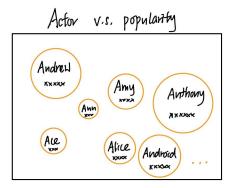


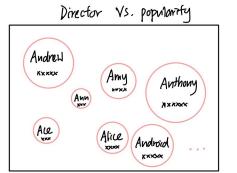
Introduction

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Actors & directors can form a network - use nodes

Size of node to encode popularity: the larger the more popular Each node indicates an actor/a director displays their name & average popularity





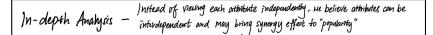
### **System** Design

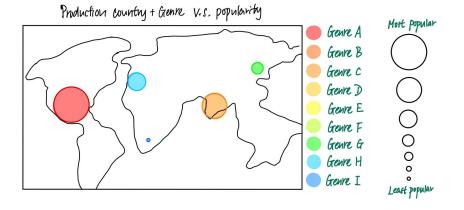
In-depth **Analysis**  Introduction

Overview

In-depth Analysis

Recommendation



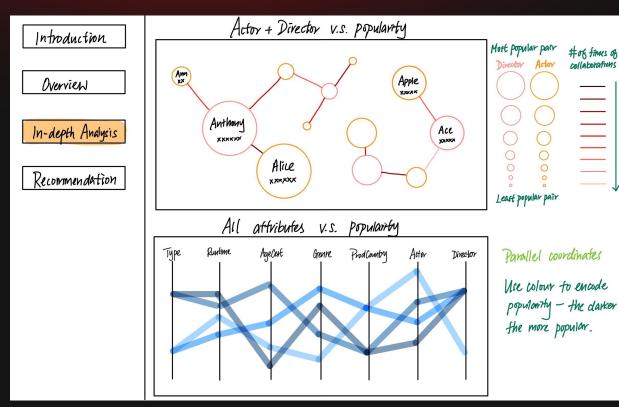






### **System** Design

### In-depth **Analysis**







### System Design

Recommendation

Introduction

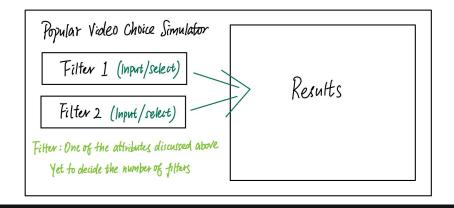
Overview

In-depth Analysis

Recommendation

· Potential popular video combinations Recommendation -· popular video choice simulator

Potential combinations a popular video has: (2) 3











## MPLEMENTATION PLAN





#### Tool — Python

 Perform data preprocessing tasks including data cleaning, data transformation, and data integration









#### **Tool** — Streamlit

- Python-based interface with real-time data processing capabilities
- Ability to incorporate python based visualization libraries such as Matplotlib Plotly and Seaborn









#### | Tool - Tableau

Perform initial Exploratory Data Analysis (EDA) to get an understanding of the data





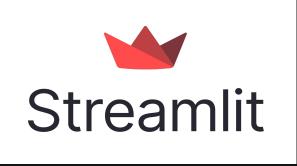




Develop a dynamic web app with Streamlit, integrating Python libraries and Tableau visualizations for a seamless and interactive user experience



















## INITIAL RESULTS

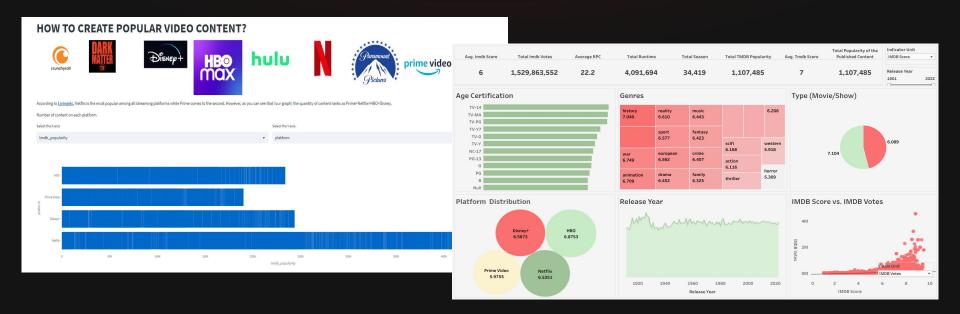








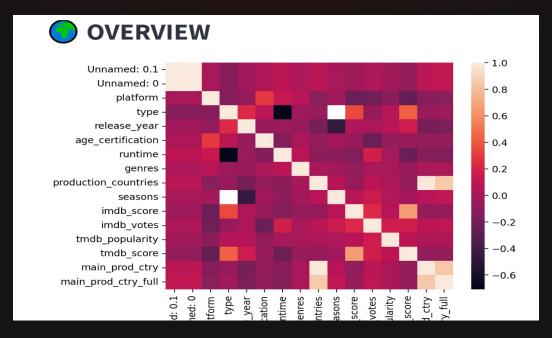
#### **Introduction**







#### **Overview**





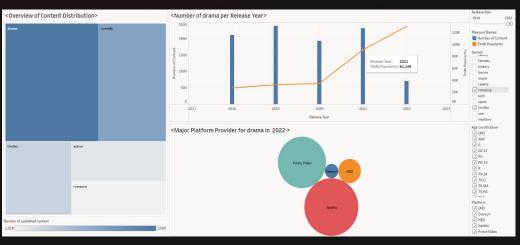




#### In-depth Analysis

- Different Content Category has its own PRC
- OTT Platform Strategy based on PRC

	2018-2022			
	Popularity Ratio per Content (PRC)	Best Platform Seller		
Drama	34	Netflix		
Comedy	41.6	Netflix		
Thriller	75	Prime Video		
Action	100	Prime Video		
Romance	40	Netflix		



If you are a Thriller producer, Prime Video will be your partner if you want your content get popular





## THANK YOU!

Please feel free to raise your questions.

