**Pixar Films**

Software engineer Eric Leung built and maintains a dataset and R package providing structured information about every Pixar film — from 1995’s Toy Story to 2024’s Inside Out 2. It lists each film’s creators (storywriters, screenwriters, directors, composers, and producers), budget, box-office earnings, aggregate critic ratings, Oscar nominations and wins, and more.

**Maven Pixar Challenge**

This is the official dataset for the [**Maven Pixar Outage Challenge**](https://mavenanalytics.io/challenges/maven-pixar-challenge/967013fc-1ff2-4453-a1ac-1ac1e0624c52).

For a chance to win a free annual membership, your task is to **use data visualization to showcase the legacy of Pixar films over time.**

Here's how to submit your entry:

1. Create a project based on the challenge objective and publish it to your Maven portfolio (make sure to select the challenge in the project options)
2. Share a LinkedIn post mentioning @Maven Analytics and the hashtag **#mavenpixarchallenge**, with an image or link to your project
3. Follow Maven Analytics on LinkedIn for updates on the challenge and invite your connections to play along!

The challenge will close on **Monday March 31st** at 11:59pm EST. All entries must be submitted prior.

For complete details, visit the [**official challenge page**](https://mavenanalytics.io/challenges/maven-pixar-challenge/967013fc-1ff2-4453-a1ac-1ac1e0624c52).

**Pixar Dataset Overview**

You've uploaded multiple datasets, and here's a summary of what each contains:

1. **academy.csv** – Oscar nominations and wins for Pixar films.
2. **box\_office.csv** – Budget and earnings (domestic, international, worldwide).
3. **genres.csv** – Genre and subgenre classification for each film.
4. **pixar\_films.csv** – Main film details (release date, runtime, rating, plot).
5. **pixar\_people.csv** – Key contributors (directors, producers, screenwriters, composers).
6. **public\_response.csv** – Audience and critic scores (Rotten Tomatoes, IMDb, Metacritic).

**Next Steps: Data Visualization Approach**

Since the **Maven Pixar Challenge** focuses on showcasing Pixar’s legacy, we can highlight:

**1. Box Office Trends**

* **Revenue over time** (e.g., budget vs. worldwide earnings per year).
* **Top-grossing Pixar films** by box office revenue.
* **Box office performance vs. critic/audience ratings**.

**2. Critical & Public Reception**

* **Rotten Tomatoes vs. IMDb scores** (Do higher-rated films make more money?).
* **Metacritic trends** (Are Pixar movies getting better or worse over time?).
* **Oscar wins vs. box office performance**.

**3. Pixar's Storytelling Themes**

* **Genre breakdown** (What are Pixar’s most common genres?).
* **Directors & Writers Influence** (Who worked on the most successful films?).

Would you like me to generate some visualizations to get started? 🚀 ​​

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**You said:**

advice on expected visualization and data insight in power bi

**ChatGPT said:**

**Advice on Expected Visualizations & Insights for the Pixar Challenge in Power BI**

Since the **Maven Pixar Challenge** is about **showcasing Pixar’s legacy**, your **Power BI dashboard** should tell a compelling **data story** with impactful visuals. Here’s how you can structure your **Power BI report**:

**📌 Key Visuals & Insights**

**1️⃣ Overview Dashboard (Pixar at a Glance)**

✅ **KPIs (Card Visuals)**:

* **Total Pixar Films Released**
* **Total Box Office Revenue (Worldwide)**
* **Average IMDb & Rotten Tomatoes Score**
* **Oscar Wins vs. Nominations**

✅ **Expected Insights:**

* How many Pixar films exist, and what is their total impact?
* Do Pixar films tend to win awards or just get nominations?

**2️⃣ Box Office Performance Over Time**

✅ **Visual: Line Chart / Area Chart**

* **X-axis:** Release Year
* **Y-axis:** Worldwide Box Office Revenue
* **Trend Line:** Highlight Pixar’s growth in revenue over time.

✅ **Expected Insights:**

* How has Pixar’s box office revenue changed over the years?
* Are there periods of higher success (e.g., Toy Story era, Finding Nemo era)?

✅ **Extra Visualization:**

* **Bar Chart:** Top-grossing Pixar movies.
* **Scatter Plot:** Budget vs. Worldwide Box Office (Does higher budget = higher revenue?).

**3️⃣ Audience & Critic Ratings Analysis**

✅ **Visual: Dual-Axis Line Chart**

* **X-axis:** Film Release Year
* **Y1-axis:** Rotten Tomatoes Score
* **Y2-axis:** IMDb Score

✅ **Expected Insights:**

* How have Pixar films been rated over time?
* Are critic scores (Rotten Tomatoes, Metacritic) aligned with audience ratings (IMDb, CinemaScore)?

✅ **Extra Visualization:**

* **Bubble Chart:** Rotten Tomatoes Score vs. IMDb Score vs. Box Office Revenue.

**4️⃣ Academy Awards Performance**

✅ **Visual: Stacked Bar Chart**

* **X-axis:** Film Title
* **Y-axis:** Number of Oscar Nominations & Wins (color-coded)

✅ **Expected Insights:**

* Which Pixar movies have won the most Oscars?
* Is there a trend where higher-rated movies win more awards?

**5️⃣ Genre & Story Themes**

✅ **Visual: Treemap / Pie Chart**

* **Breakdown of Pixar Films by Genre** (Adventure, Comedy, Family, etc.)
* **Subgenre Breakdown** (Buddy Comedy, Fantasy, Sci-Fi, etc.)

✅ **Expected Insights:**

* What genres dominate Pixar’s storytelling?
* Do certain genres lead to higher ratings or box office success?

**6️⃣ Key Contributors (Directors, Writers, Composers)**

✅ **Visual: Matrix Table or Bar Chart**

* **Top Directors / Writers / Composers** by:
  + Number of Pixar Films
  + Average Box Office Revenue
  + Average IMDb Rating

✅ **Expected Insights:**

* Which directors or writers have had the biggest impact?
* Is there a correlation between certain directors and successful films?

**📌 Additional Power BI Features**

✅ **Interactive Filters & Slicers**:

* Filter by **year, genre, director, or rating**.
* Allow users to explore box office vs. critic ratings interactively.

✅ **Tooltips & Drill-through Pages**:

* Clicking on a film can show **detailed insights** (budget, revenue, awards, reviews).

**🚀 Final Steps**

1️⃣ **Data Cleaning**:

* Ensure numeric fields (Box Office, Ratings) are properly formatted.
* Convert release dates to a **Date type** for proper time-based analysis.

2️⃣ **Data Modeling in Power BI**:

* Link tables using **Film Title** as the common key.
* Use **DAX measures** for KPIs (e.g., total revenue, average ratings).

3️⃣ **Storytelling Focus**:

* Keep visuals clean & intuitive.
* Make insights easy to understand at a glance.