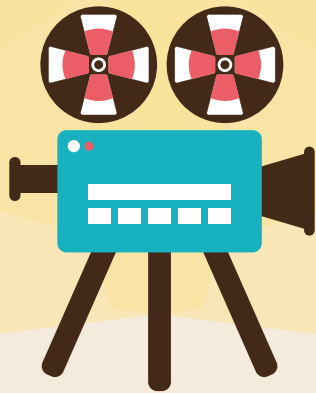


Predicting An Actor's Number of Film Credits

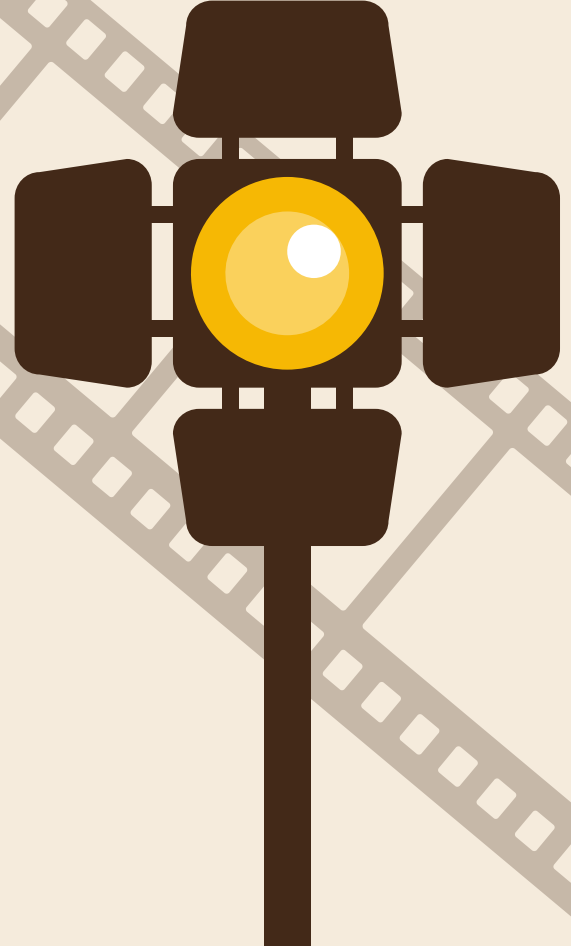


Motivation

- Advise prospective and newly working film actors on which projects to pick to maximize their odds of future success in the industry



Methodology



Gathering Data

Step 1

- Web scraped list of actors from IMDB
- All from US made films released in early 2000



Gathering Data

Step 1



Step 2

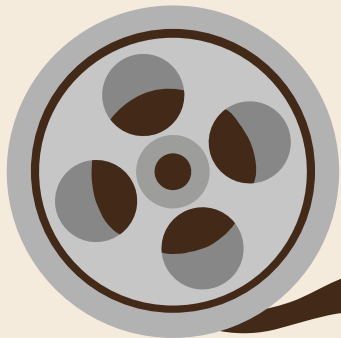
- Web scraped list of actors from IMDB (1,500 names)
- All from US made films released in early 2000



- Collected data from the first three films of each actor from IMDB Pro
- **Features:**
 - Year of first film release
 - Average rating of films
 - Genres of the films

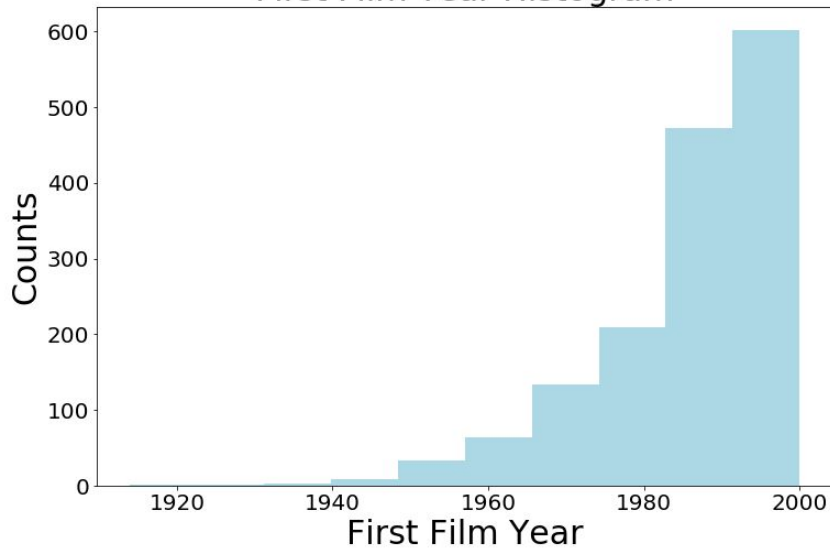
Modeling the Data

- Removed outliers from dataset with credits over 300
- Added as a feature the logarithm of 2000 minus the First Film Year (referred to as Log-Diff) to try normalize it's distribution and capture non-linearity

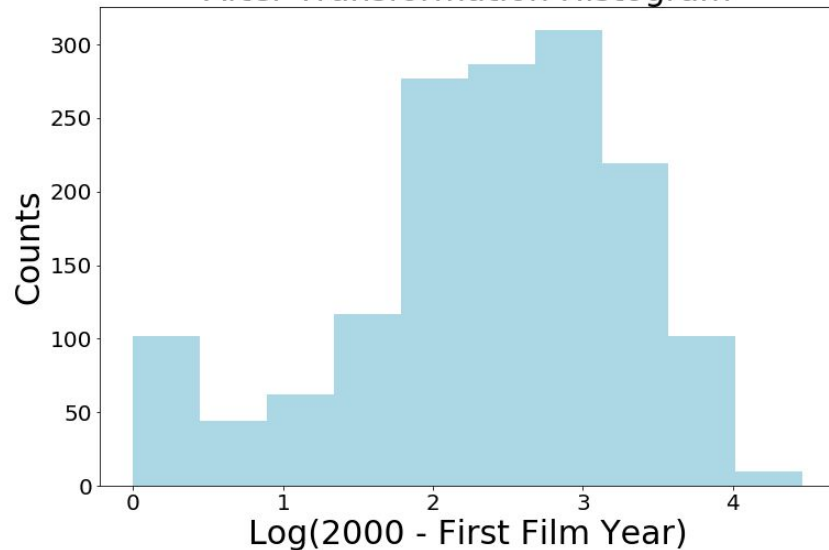


Modeling the Data

First Film Year Histogram

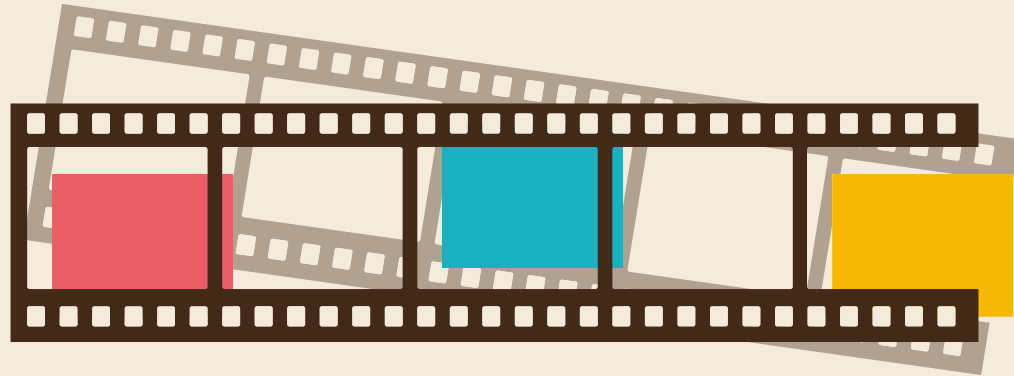


After Transformation Histogram



Modeling the Data

- Lasso Regression to see which features were assigned coefficients of zero
- Trained new model on only non-zero features using Lasso with cross validation (5 folds) and optimized alpha



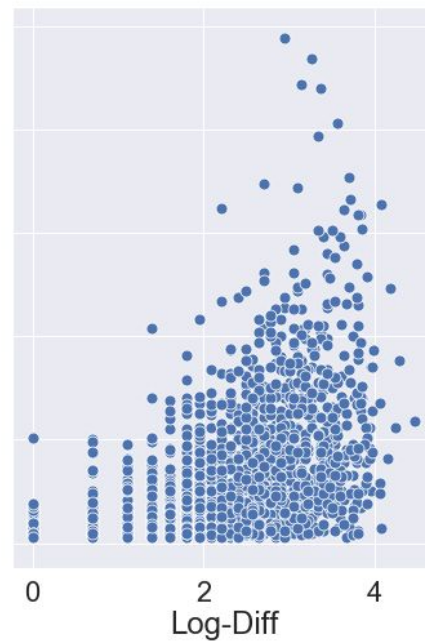
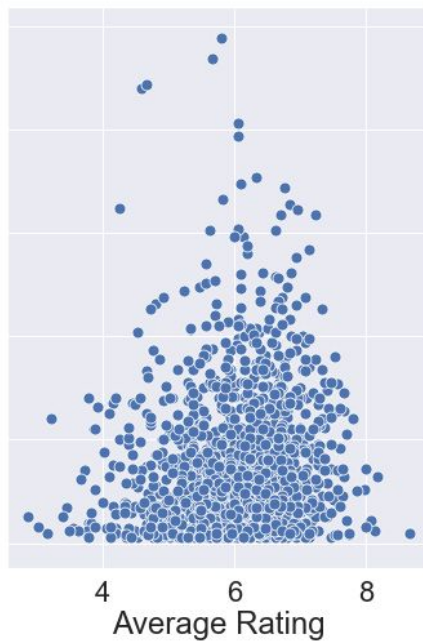
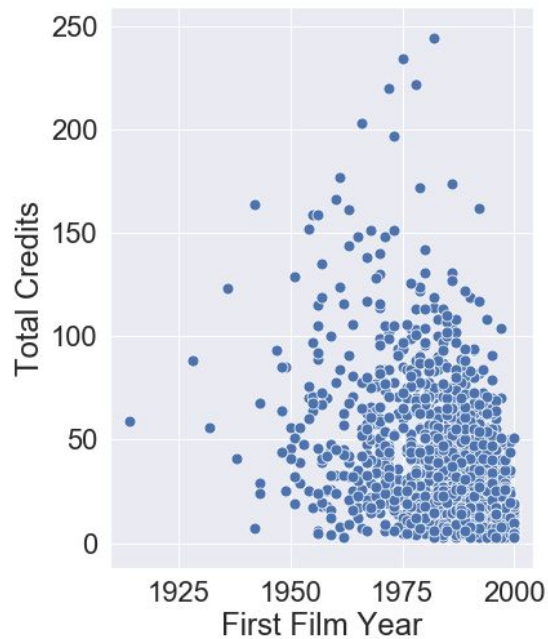
Kept Features	Coefficients
First Film Year	-4.47
Average Rating	0.90
Log-Diff	9.48
Comedy	-0.80
Fantasy	-0.97
Thriller	-2.16
Musical	-0.52
Documentary	-0.86
Animation	1.10

RESULTS

- Model ultimately did not have enough features to make accurate predictions
- Too much variance in the data unaccounted for
- Getting offers = Getting future offers

Metrics	Training Set	Test Set
R^2	0.25	0.24
MAE	20.9	19.8

RESULTS



Future Work

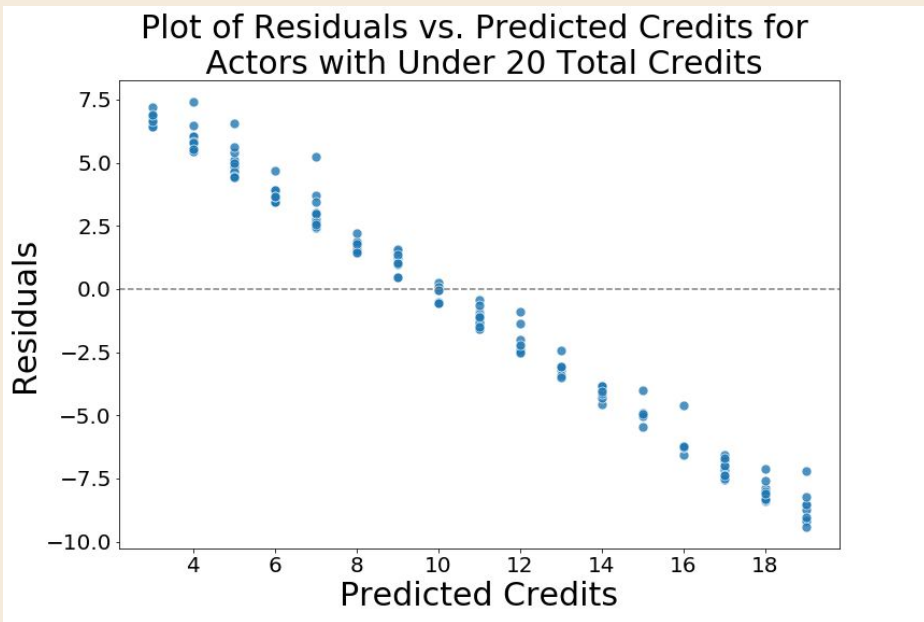
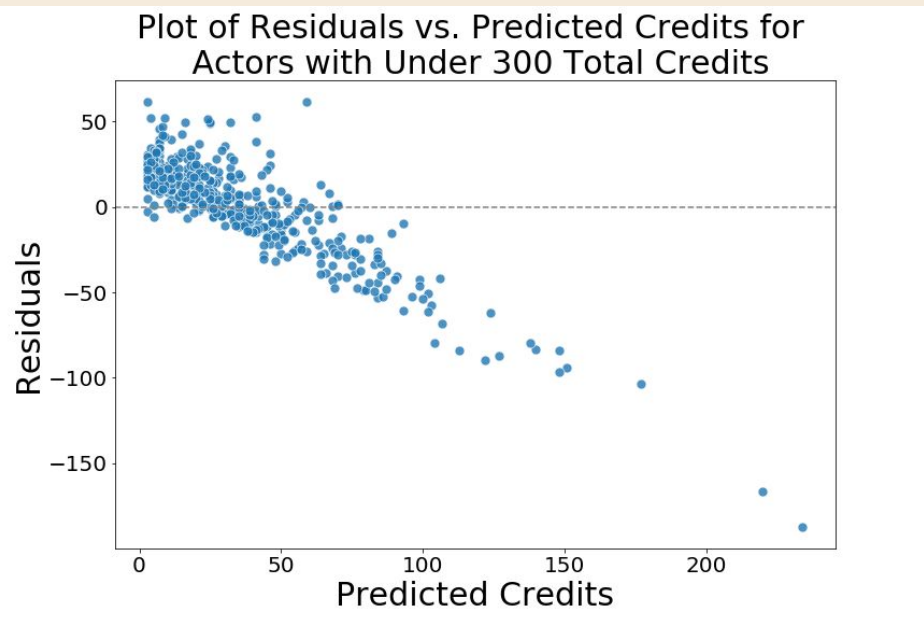
- Potentially Valuable Features:
 - Study found 73% of working actors from middle/upper class
 - Most actors reach fame by 29
 - Race and gender correlation to total credits



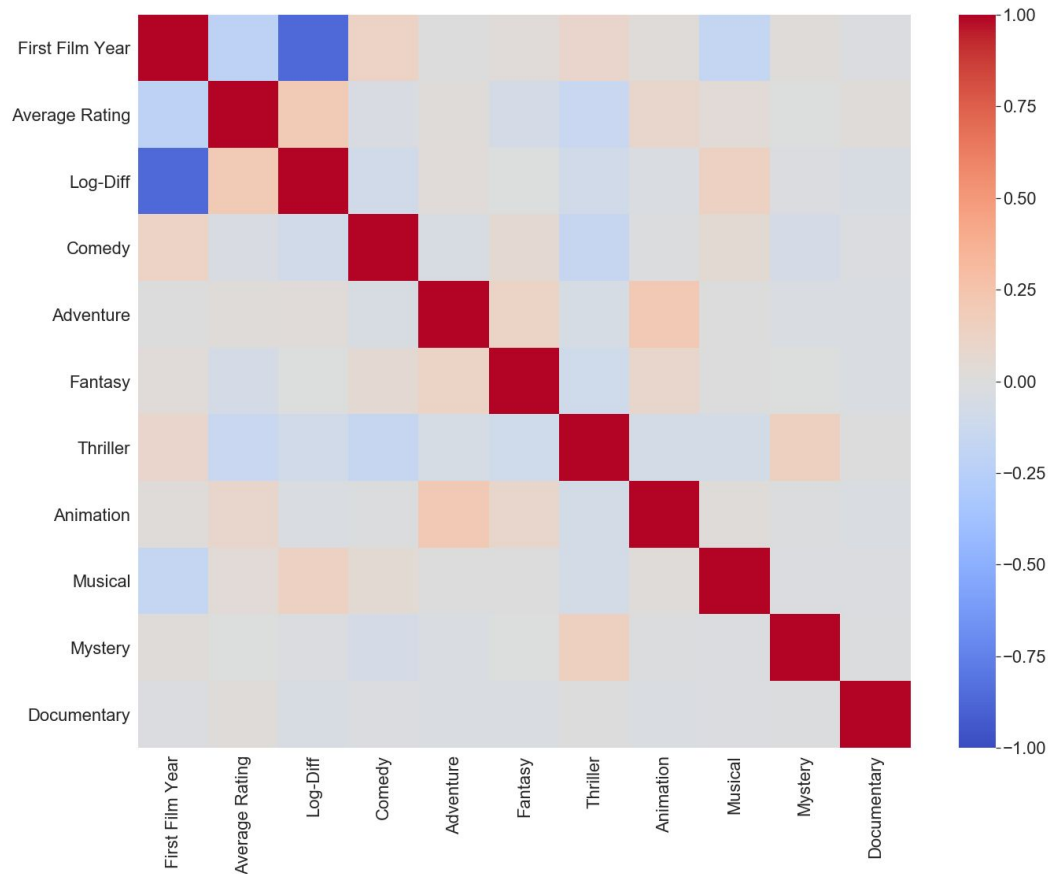
Appendix

Plots of the Model's Residuals vs. Predicted Credits

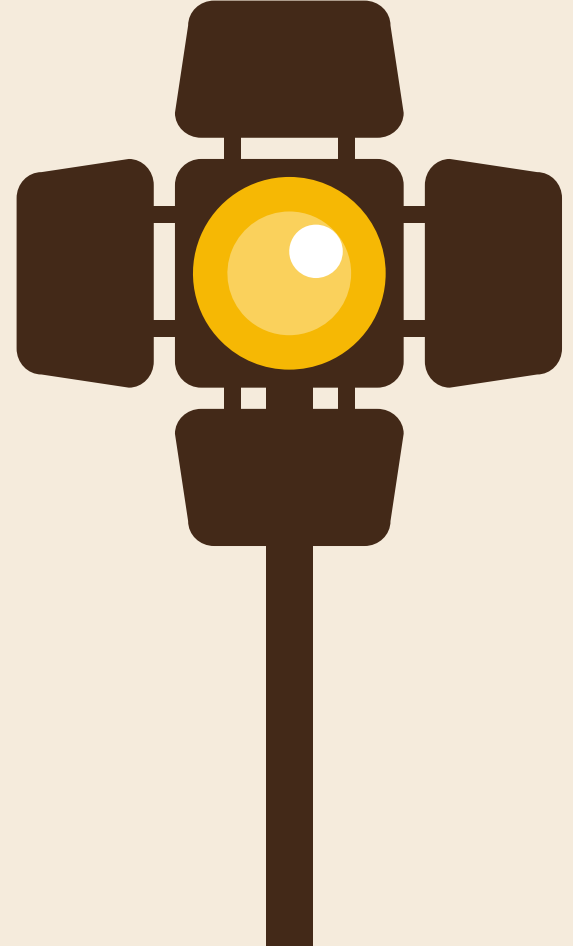
- These plots show the negatively sloped nature of the residuals of my model for the entire dataset (left) and for only actors with 20 or less credits (right)



Heat Map of Kept Features

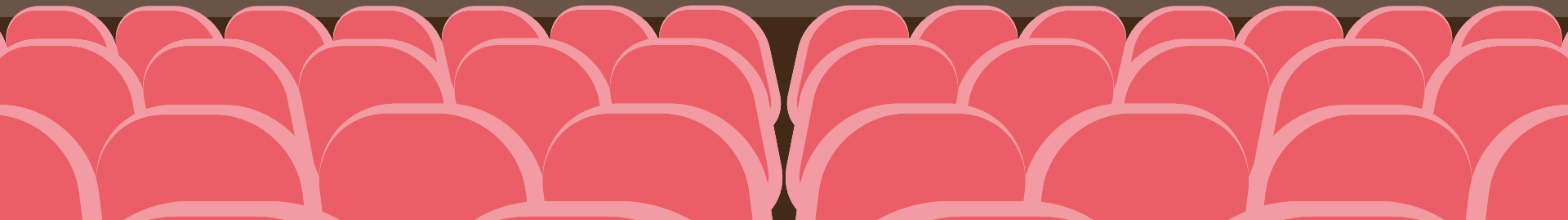


Methodology



MOVIE BACKGROUND

Here is where your presentation begins



CONTENTS OF THIS TEMPLATE

Here's what you'll find in this **Slidesgo** template:

1. A slide structure based on a company profile presentation, which you can easily adapt to your needs. For more info on how to edit the template, please visit **Slidesgo School** or read our **FAQs**.
2. An assortment of illustrations that are suitable for use in the presentation can be found in the **alternative resources** slide.
3. A **thanks** slide, which you must keep so that proper credits for our design are given.
4. A **resources** slide, where you'll find links to all the elements used in the template.
5. **Instructions for use**.
6. Final slides with:
 1. The **fonts and colors** used in the template.
 2. More **infographic resources**, whose size and color can be edited.
 3. Sets of **customizable icons** of the following themes: general, business, avatar, creative process, education, help & support, medical, nature, performing arts, SEO & marketing, and teamwork.

You can delete this slide when you're done editing the presentation.



AGENDA

01. ABOUT OUR COMPANY

Here you could describe the topic of the section

02. OUR PRODUCT

Here you could describe the topic of the section

03. OUR CLIENTS

Here you could describe the topic of the section

04. EXPECTED PROJECTION

Here you could describe the topic of the section

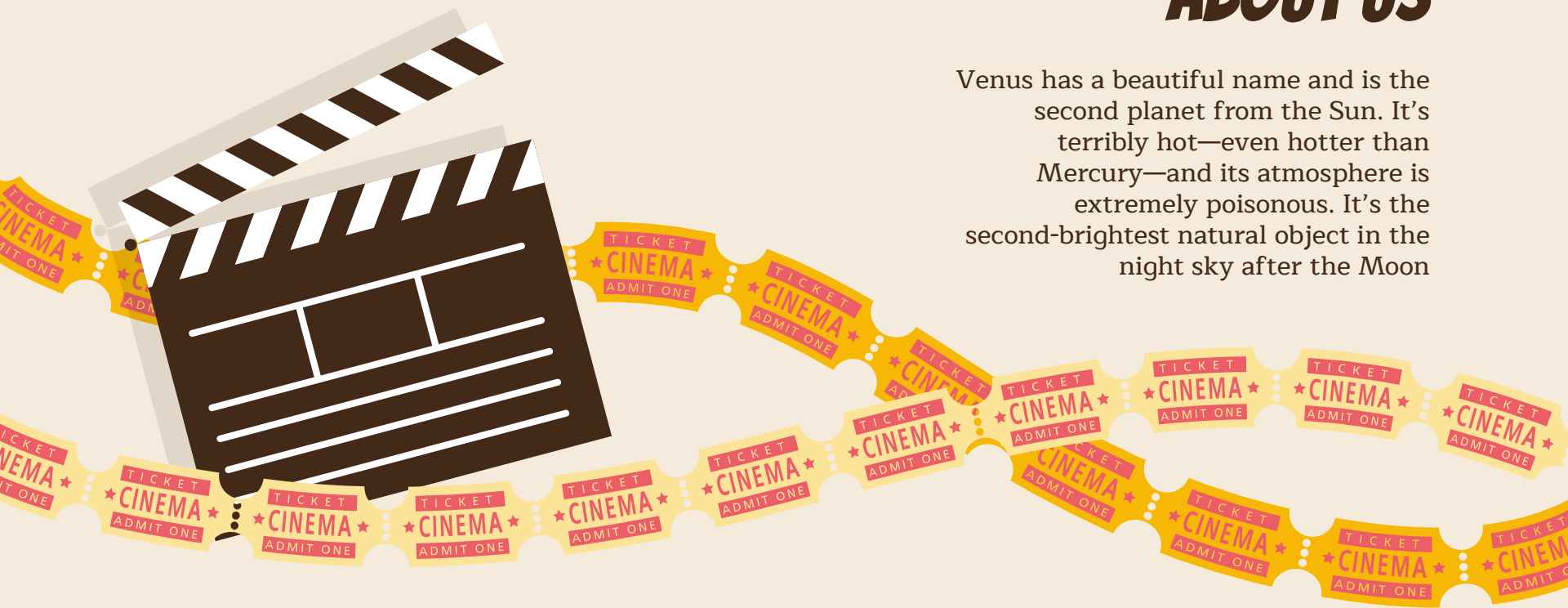


ABOUT OUR COMPANY

You could enter a subtitle here
if you need it

ABOUT US

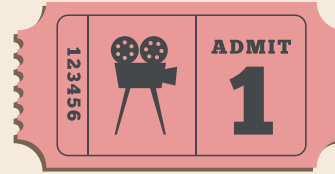
Venus has a beautiful name and is the second planet from the Sun. It's terribly hot—even hotter than Mercury—and its atmosphere is extremely poisonous. It's the second-brightest natural object in the night sky after the Moon



ABOUT US

Mars

Despite being red, Mars is actually a cold place



Saturn

Saturn is composed of hydrogen and helium



Neptune

Neptune is the farthest planet from the Sun



Jupiter

It's the biggest planet in our Solar System

Mercury

Mercury is the closest planet to the Sun

OUR STORY

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than our Moon. The planet's name has nothing to do with the liquid metal, since Mercury was named after the Roman messenger god

Saturn

It's composed of
hydrogen and helium

2008

Venus

Venus is the second
planet from the Sun

2015

Mars

Despite being red,
Mars is a cold place

2019

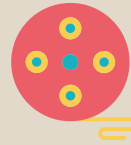


OUR PHILOSOPHY



Mercury

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than our Moon

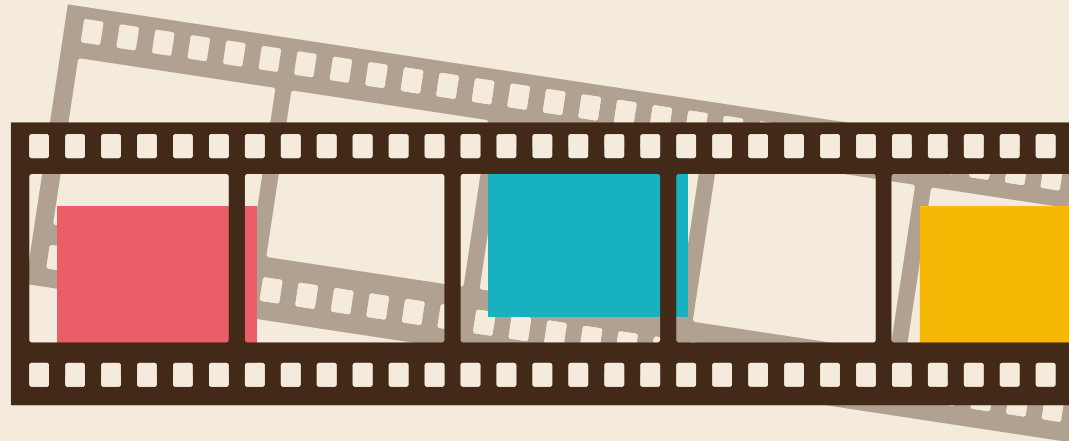


Venus

Venus has a beautiful name and is the second planet from the Sun. It's terribly hot, even hotter than Mercury

“This is a quote. Words full of wisdom
that someone important said and can
make the reader get inspired.”

—SOMEONE FAMOUS



OUR PRODUCT

You could enter a subtitle here
if you need it



LOCATIONS



Mercury

Mercury is the smallest planet in our Solar System



Jupiter

It's the biggest planet in our Solar System



Venus

Venus has a beautiful name, but it's terribly hot



Saturn

Saturn is composed of hydrogen and helium



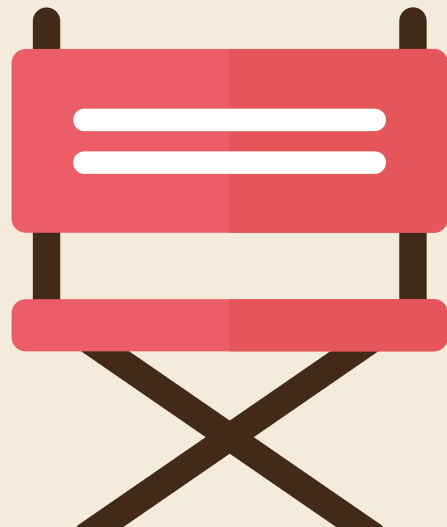
Mars

Despite being red, Mars is actually a cold place

HIGHEST-GROSSING MOVIES

Venus

Venus is the second planet from the Sun



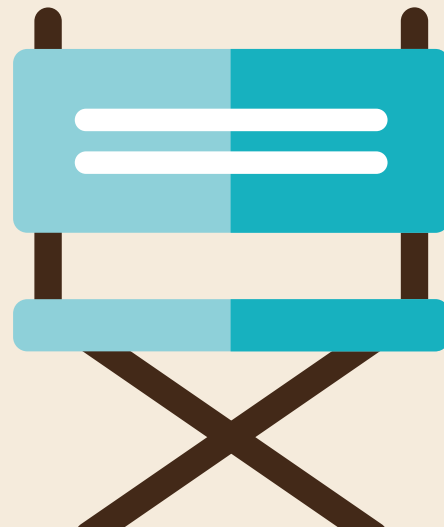
Mars

Despite being red, Mars is actually a cold place



Saturn

It's composed mostly of hydrogen and helium





***A PICTURE IS WORTH A
THOUSAND WORDS***

OUR STRENGTHS

Mars

Despite being red, Mars is actually a cold place

Neptune

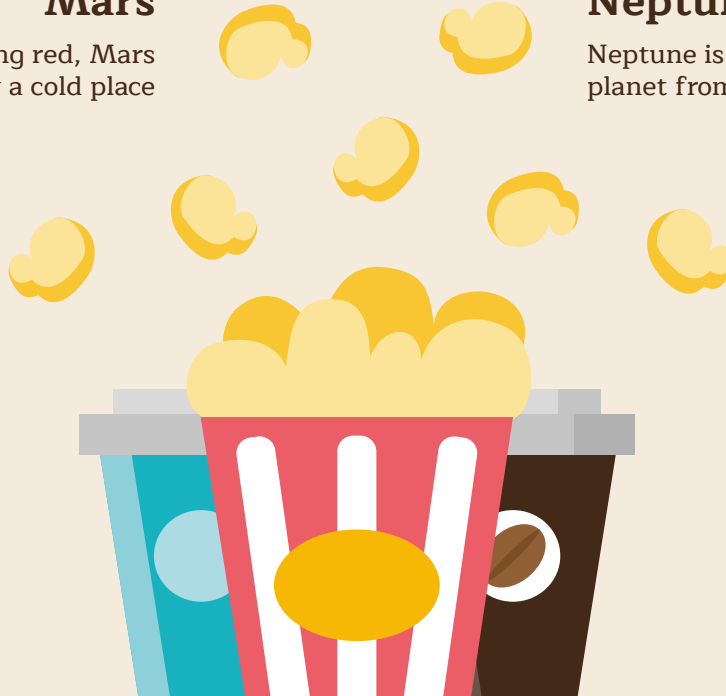
Neptune is the farthest planet from the Sun

Venus

Venus is the second planet from the Sun

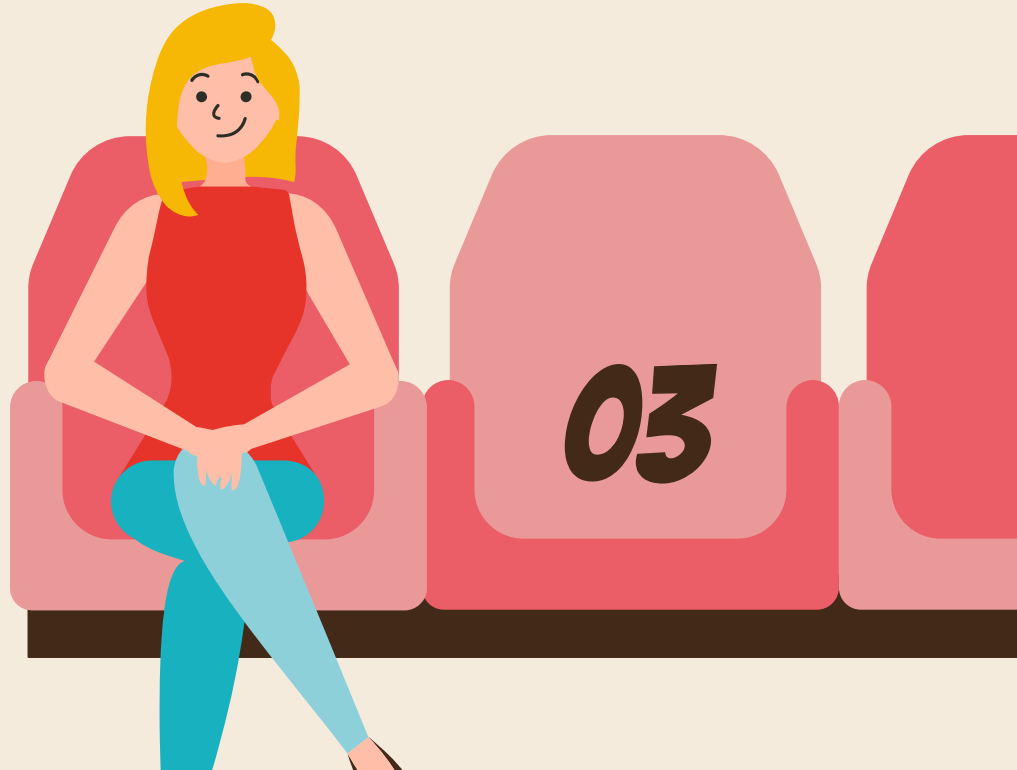
Mercury

It's the smallest planet in our Solar System



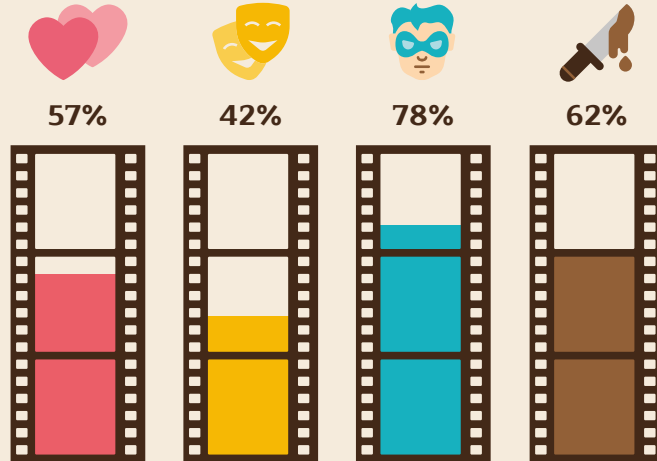
OUR CLIENTS

You could enter a subtitle here
if you need it

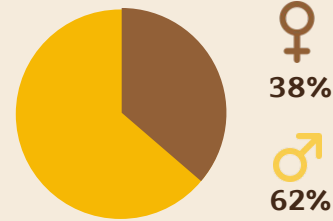


CUSTOMER PROFILE

Preferences



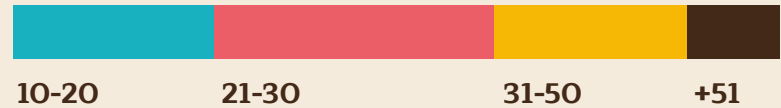
Gender



Interests



Age



Click and drag the boxes to change the preferences and age / Click and drag the orange handles to change the gender

CUSTOMER SURVEY

	<i>YES</i>	<i>NO</i>	<i>N/A</i>
I prefer going to the movies on weekends		★	
I like to buy popcorn or refreshments	★		
I usually go to the movies with my friends		★	
I have seen at least two movies in 3D			★

OUR NUMBERS



100%

Satisfied customers



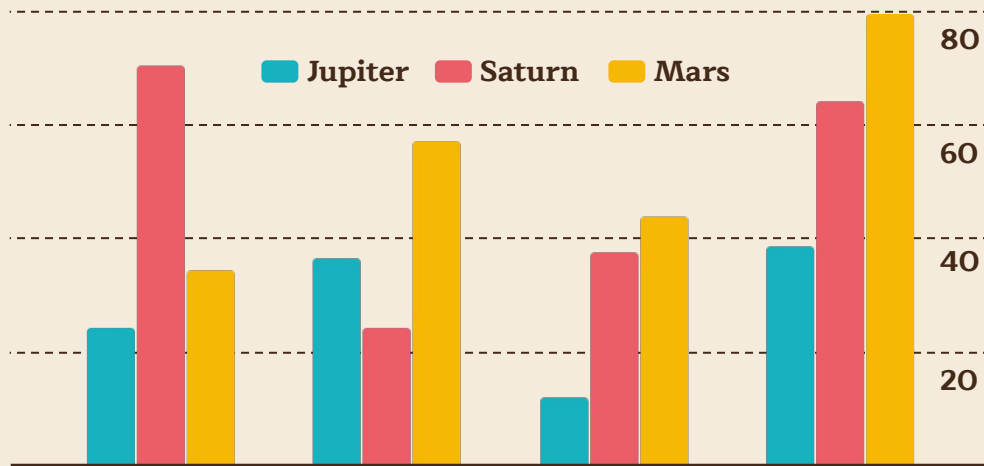
20

Locations



\$20

Spend per customer



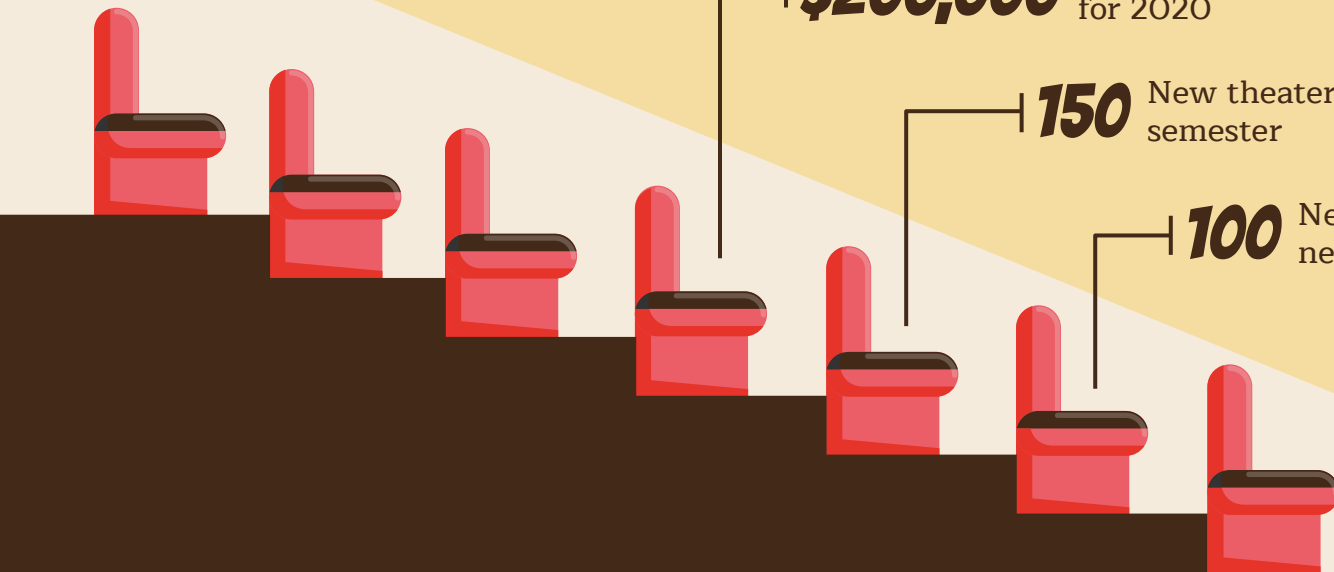
If you want to modify this graph, click on it,
follow the link, change the data and replace it

OUR GROWTH

\$200,000 Expected income
for 2020

150 New theaters next
semester

100 New employees
next year

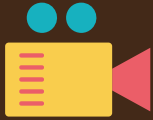




EXPECTED PROJECTION

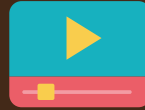
You could enter a subtitle here
if you need it

FUTURE PROJECTS



Mars

Despite being red, Mars
is actually a cold place



Venus

Venus is the second
planet from the Sun



Mercury

It's the smallest planet in
our Solar System

CUSTOMER TESTIMONIAL

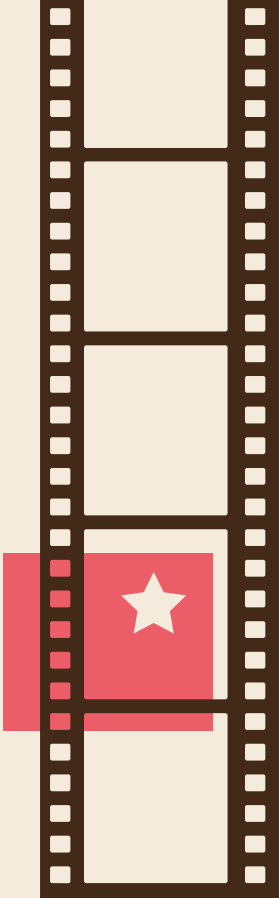
Laura Patterson

Saturn is composed mostly of
hydrogen and helium

Jenna Smith

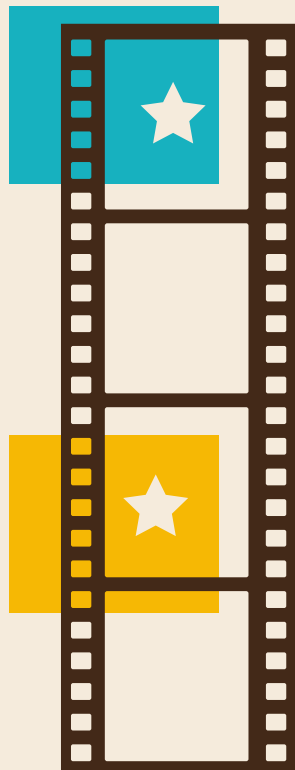
Neptune is the fourth-largest
planet in our Solar System

AWARDS



Mars

Despite being red,
Mars is actually a
cold place



Mercury

It's the smallest
planet in our Solar
System

Saturn

It's composed mostly
of hydrogen and
helium

OUR TEAM

Jenna Doe

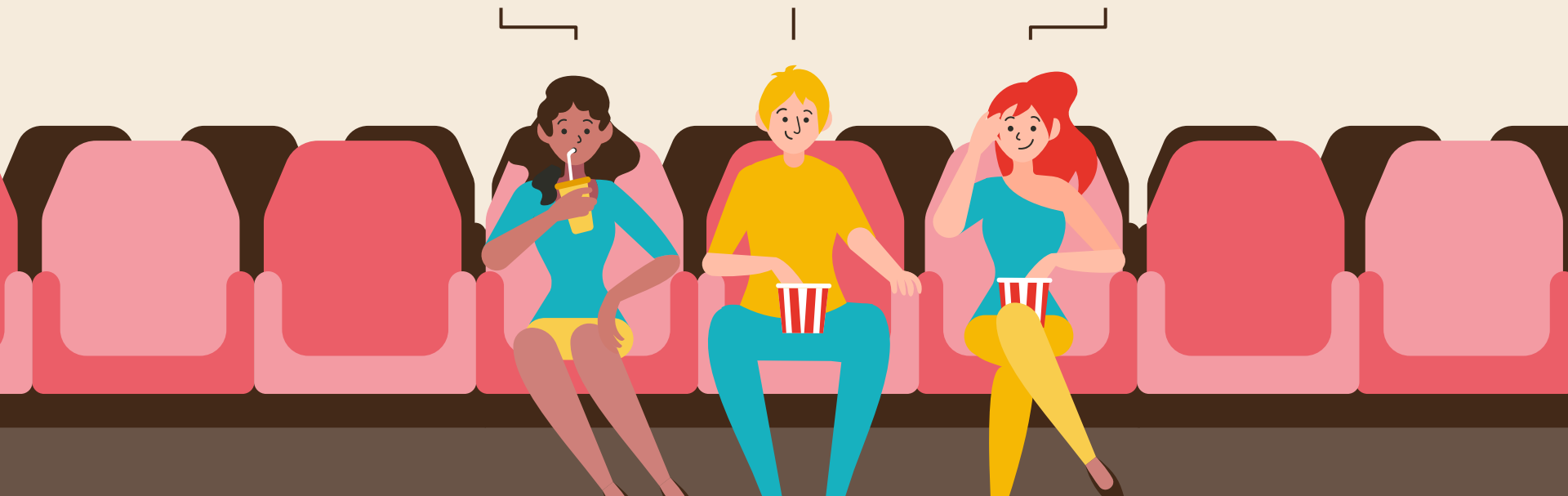
Here you could talk a bit
about this person

John James

Here you could talk a bit
about this person

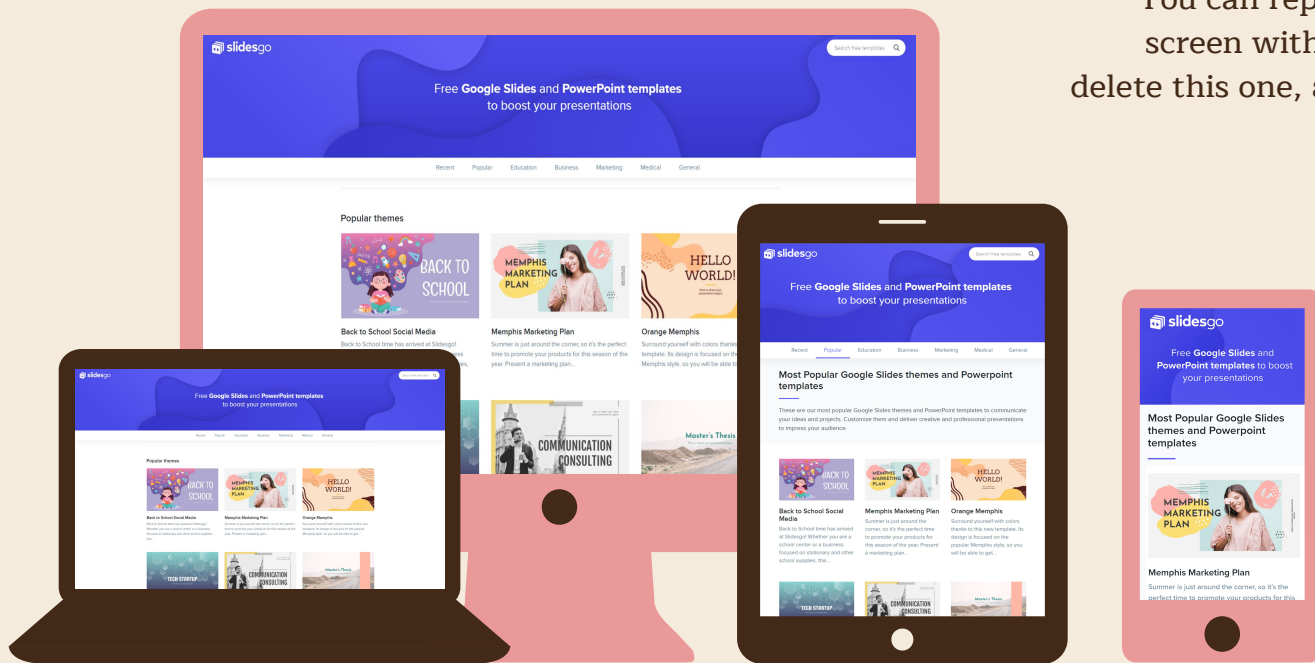
Jane Patterson

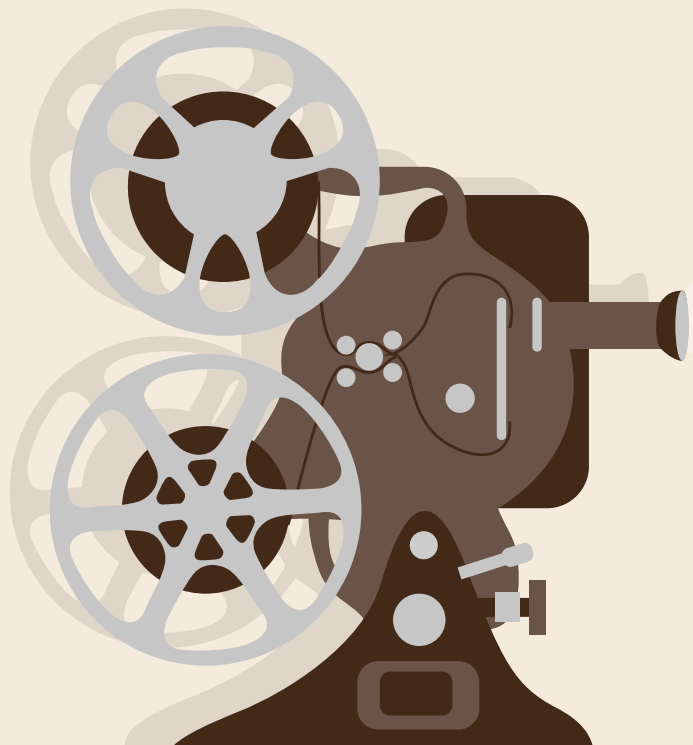
Here you could talk a bit
about this person



DEVICES

You can replace the image in the screen with your own work. Just delete this one, add yours and send it to the back





THANKS

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youremail@freepik.com
+91 620 421 838
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ALTERNATIVE RESOURCES



RESOURCES

Vectors

Cinema pack
Cinema banners two perspectives
Cinema night banners collection
Collection of friends spending time together
Collection of friends spending time together
Flat several audiovisual elements
Retro movie time background
Retro cinema tickets
Street map with pin routes
Flat cinema seats background with red curtains
Flat cinema background with clapperboard popcorns

Icons

Cinema Icon Pack
Free Time Icon Pack

Photos

Cinema concept with hand holding clapperboard
Cinema concept with popcorn background

