

```
In [ ]: # === First cell: Imports and basic settings ===

import os
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import missingno as msno

# Make plots look nicer
plt.rcParams['figure.figsize'] = (8, 5)
sns.set_theme(style="whitegrid")

# Paths
DATA_PATH = "data/train_eda.csv" # adjust if your file has a different name
FIG_DIR = "figures"
os.makedirs(FIG_DIR, exist_ok=True)
```

Importing Libraries

- Imported essential Python libraries for data handling (`pandas` , `numpy`).
- Set up plotting libraries (`matplotlib` , `seaborn`) for visualizations.
- Added `missingno` for missing data visualization.
- Configured plot style and created a folder to save generated figures.

```
In [4]: df = pd.read_csv(DATA_PATH)

print(f"Shape: {df.shape}")
df.head()
```

Shape: (891, 12)

Out[4]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.25
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...)	female	38.0	1	0	PC 17599	71.28
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.92
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.10
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.05

Loading the Dataset

- Loaded the dataset from the `data` folder into a pandas DataFrame.
- Verified the file path and confirmed successful loading.
- Displayed the first 5 rows to get an initial look at the structure and values.

```
In [5]: # === Third cell: Inspect dataset info and missing values ===

# Basic info about columns and data types
df.info()

# Summary statistics for numeric and categorical columns
display(df.describe(include='all').T)

# Missing values count (sorted)
missing = df.isnull().sum().sort_values(ascending=False)
print("\nMissing values per column:")
print(missing[missing > 0])
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):
#   Column      Non-Null Count  Dtype
---  -
0   PassengerId  891 non-null    int64
1   Survived     891 non-null    int64
2   Pclass       891 non-null    int64
3   Name         891 non-null    object
4   Sex          891 non-null    object
5   Age          714 non-null    float64
6   SibSp        891 non-null    int64
7   Parch        891 non-null    int64
8   Ticket       891 non-null    object
9   Fare         891 non-null    float64
10  Cabin        204 non-null    object
11  Embarked     889 non-null    object
dtypes: float64(2), int64(5), object(5)
memory usage: 83.7+ KB
```

	count	unique	top	freq	mean	std	min	25%	50%
PassengerId	891.0	NaN	NaN	NaN	446.0	257.353842	1.0	223.5	446.0
Survived	891.0	NaN	NaN	NaN	0.383838	0.486592	0.0	0.0	0.0
Pclass	891.0	NaN	NaN	NaN	2.308642	0.836071	1.0	2.0	3.0
Name	891	891	Braund, Mr. Owen Harris	1	NaN	NaN	NaN	NaN	NaN
Sex	891	2	male	577	NaN	NaN	NaN	NaN	NaN
Age	714.0	NaN	NaN	NaN	29.699118	14.526497	0.42	20.125	28.0
SibSp	891.0	NaN	NaN	NaN	0.523008	1.102743	0.0	0.0	0.0
Parch	891.0	NaN	NaN	NaN	0.381594	0.806057	0.0	0.0	0.0
Ticket	891	681	347082	7	NaN	NaN	NaN	NaN	NaN
Fare	891.0	NaN	NaN	NaN	32.204208	49.693429	0.0	7.9104	14.4542
Cabin	204	147	G6	4	NaN	NaN	NaN	NaN	NaN
Embarked	889	3	S	644	NaN	NaN	NaN	NaN	NaN



Missing values per column:

Cabin 687

Age 177

Embarked 2

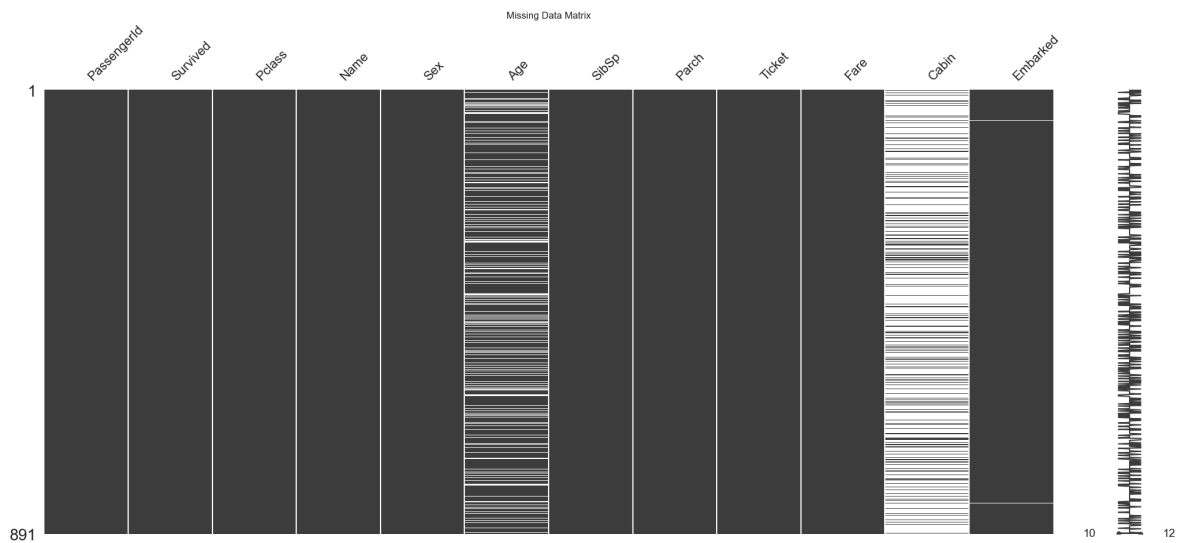
dtype: int64

Inspecting Data Types and Missing Values

- `.info()` showed column names, data types, and non-null counts.
- `.describe()` provided summary statistics for numeric and categorical columns.
- Identified columns with missing values to address in later cleaning steps.

In [17]: # === Fourth cell: Missing values visualization ===

```
msno.matrix(df)
plt.title("Missing Data Matrix")
plt.savefig(f"{FIG_DIR}/missing_matrix.png", bbox_inches='tight', dpi=150)
plt.show()
```

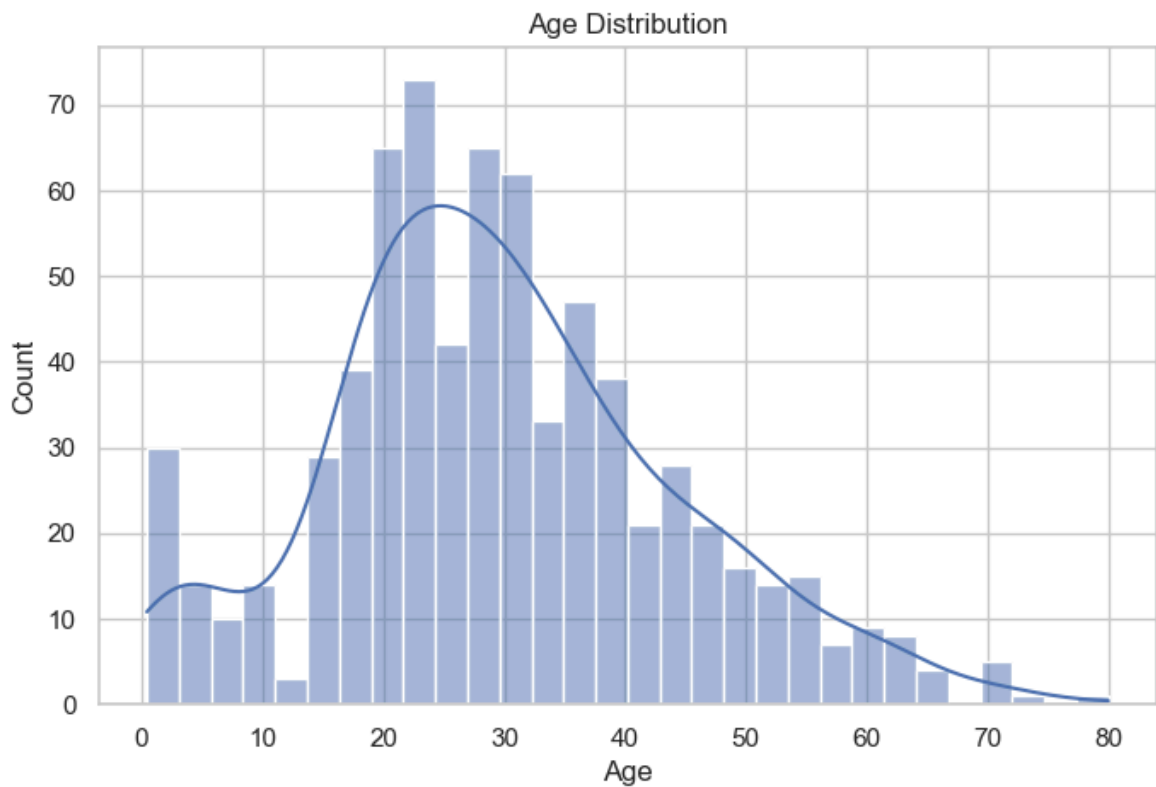


Missing Data Matrix

- Several columns have missing values, with some showing significant gaps.
- White areas indicate missing entries; solid lines mean complete data.
- Columns with heavy missingness may need imputation or removal.

In [7]: # === Fifth cell: Histogram for a numeric column ===

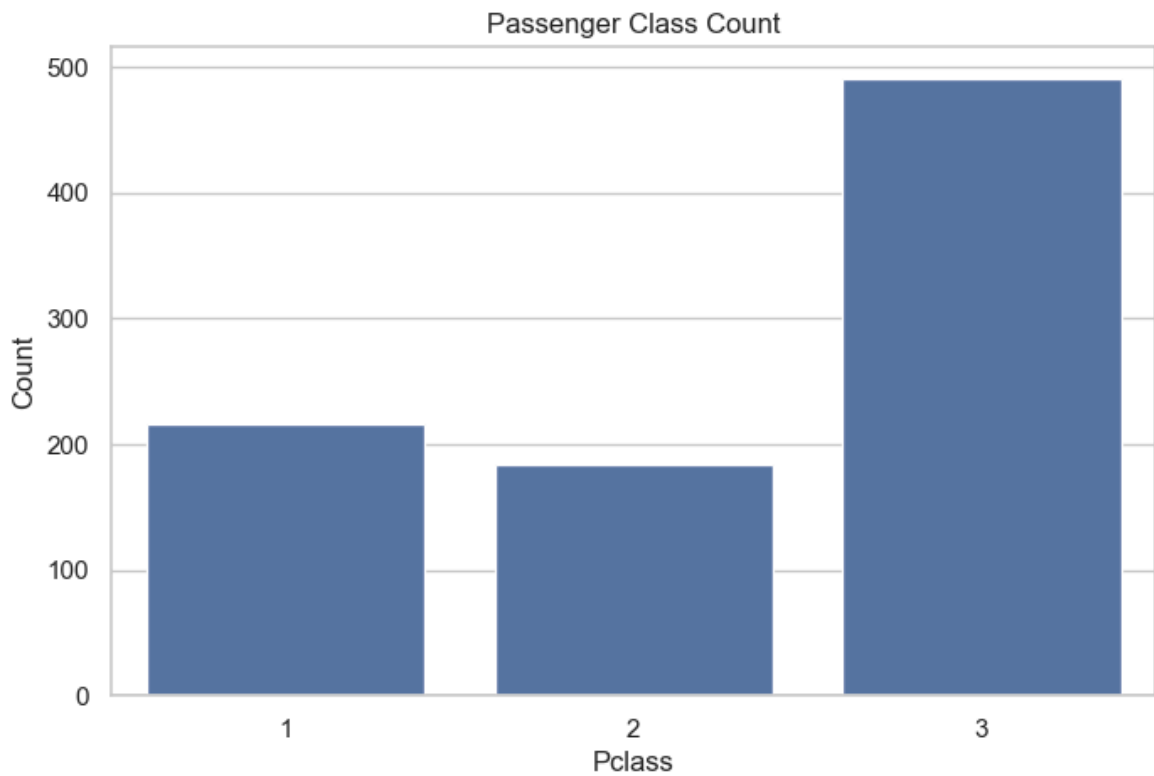
```
# Change 'Age' to any numeric column you want to see
sns.histplot(df['Age'], kde=True, bins=30)
plt.title("Age Distribution")
plt.xlabel("Age")
plt.ylabel("Count")
plt.savefig(f"{FIG_DIR}/hist_age.png", bbox_inches='tight', dpi=150)
plt.show()
```



Age Distribution

- Most passengers are between 20 and 40 years old.
- Few passengers above 60 years; tail extends toward older ages.
- Slight right skew in distribution.

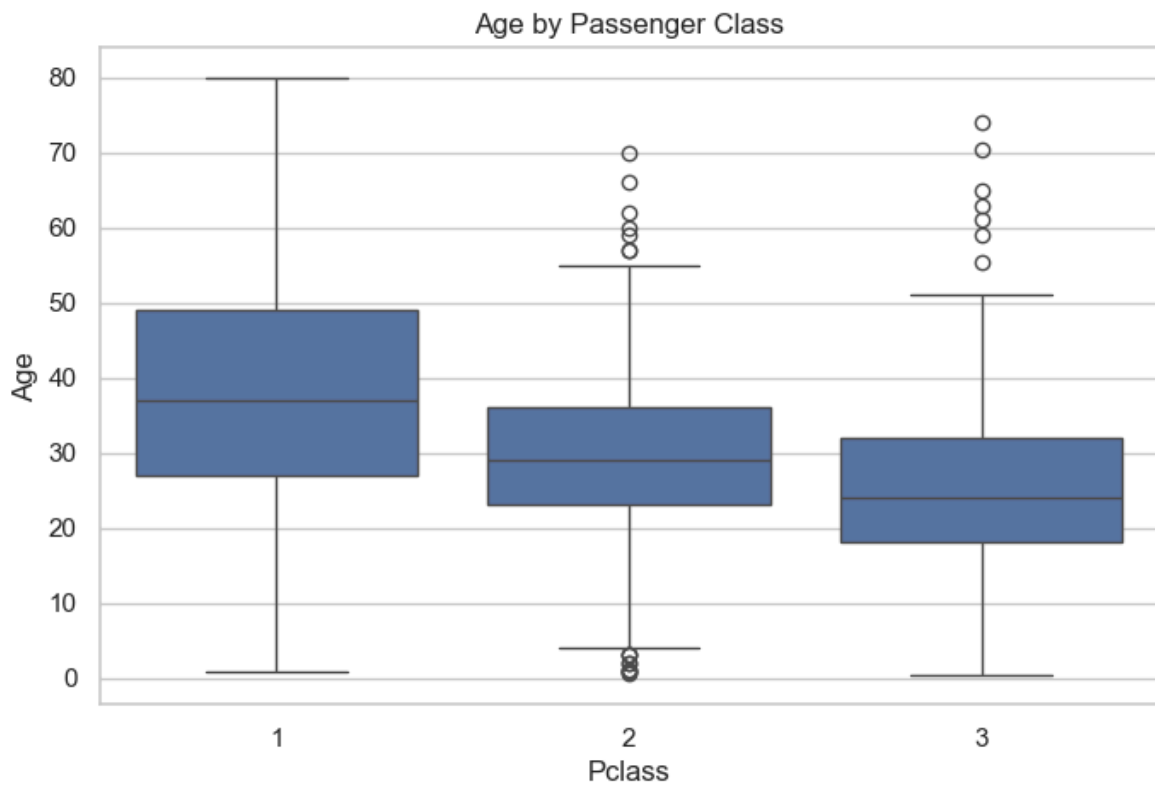
```
In [10]: # === Sixth cell: Countplot for a categorical column ===  
  
# Change 'Pclass' to any categorical column in your dataset  
sns.countplot(x='Pclass', data=df)  
plt.title("Passenger Class Count")  
plt.xlabel("Pclass")  
plt.ylabel("Count")  
plt.savefig(f"{FIG_DIR}/count_pclass.png", bbox_inches='tight', dpi=150)  
plt.show()
```



Passenger Class Count

- Most passengers traveled in 3rd class, followed by 1st and 2nd.
- Class imbalance suggests socio-economic differences in the dataset.
- Could influence survival patterns in later analysis.

```
In [12]: # === Seventh cell: Boxplot for numeric vs categorical ===  
  
# Example: Age distribution across Passenger Class  
sns.boxplot(x='Pclass', y='Age', data=df)  
plt.title("Age by Passenger Class")  
plt.xlabel("Pclass")  
plt.ylabel("Age")  
plt.savefig(f"{FIG_DIR}/box_age_by_pclass.png", bbox_inches='tight', dpi=150)  
plt.show()
```



Age by Passenger Class

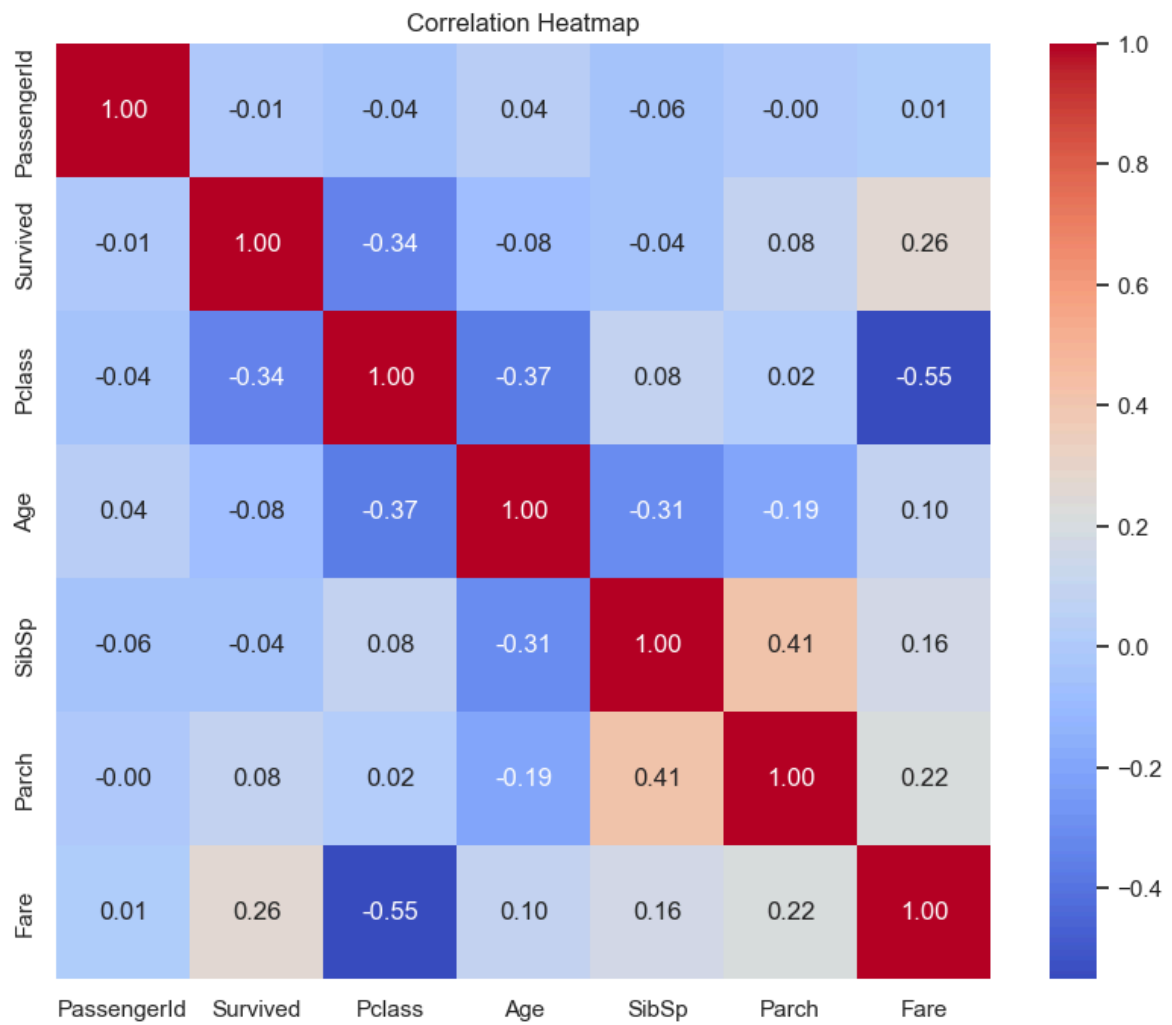
- Median age is highest in 1st class and lowest in 3rd class.
- Wider spread of ages in 1st class; 3rd class has more younger passengers.
- Several outliers appear across all classes.

```
In [13]: # === Eighth cell: Correlation heatmap for numeric columns ===

# Select only numeric columns
numeric_df = df.select_dtypes(include=[np.number])

# Compute correlations
corr = numeric_df.corr()

# Plot heatmap
plt.figure(figsize=(10, 8))
sns.heatmap(corr, annot=True, fmt=".2f", cmap='coolwarm', square=True)
plt.title("Correlation Heatmap")
plt.savefig(f"{FIG_DIR}/correlation_heatmap.png", bbox_inches='tight', dpi=150)
plt.show()
```



Correlation Heatmap

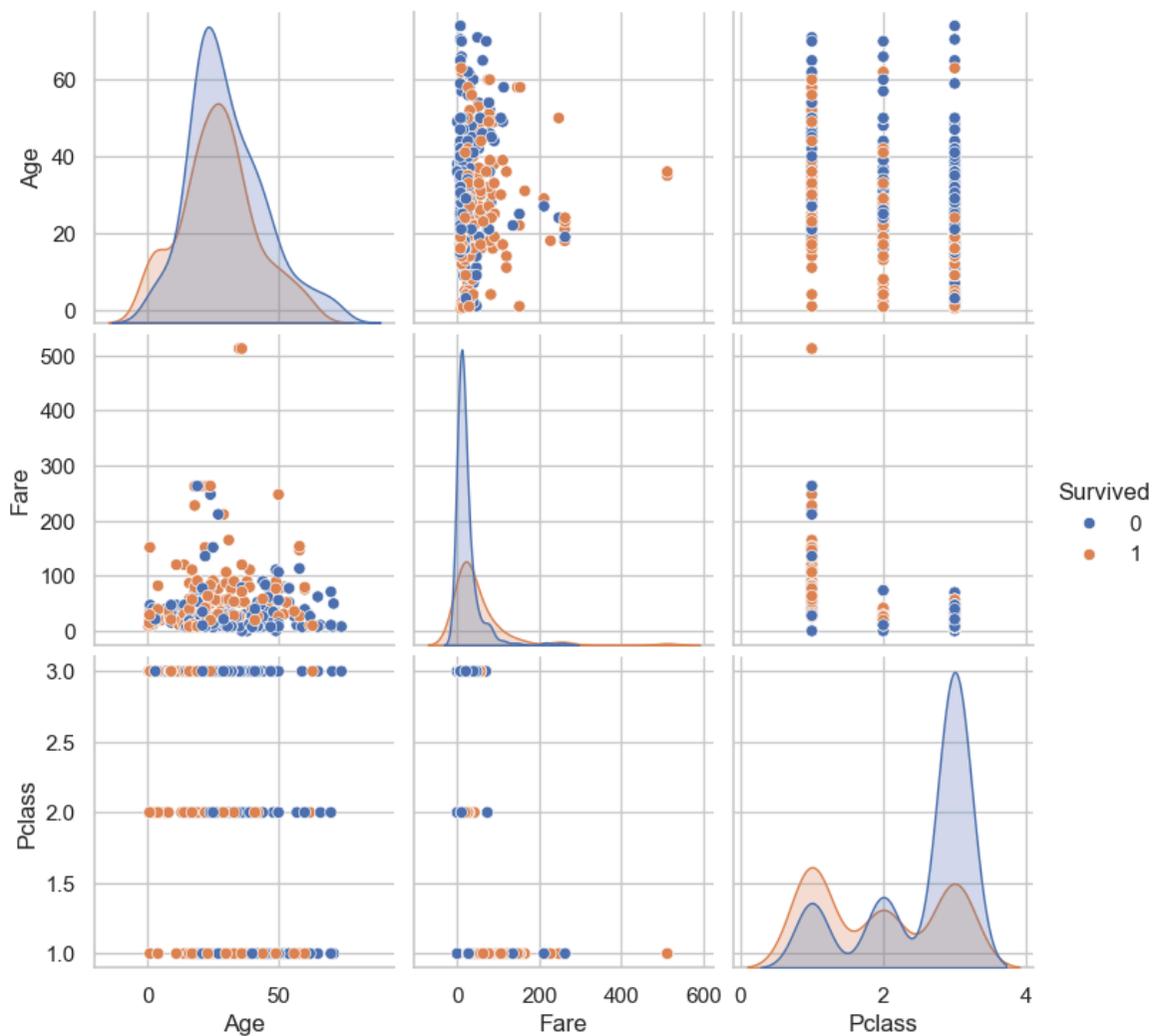
- Fare shows a moderate negative correlation with passenger class (Pclass).
- Age has low correlation with most other variables.
- No extreme multicollinearity detected between numeric columns.

```
In [14]: # === Ninth cell: Pairplot for selected numeric columns ===

# Pick up to 4 numeric columns for pairplot
cols_for_pairplot = ['Age', 'Fare', 'Pclass', 'Survived'] # change if needed

# Sample data if too large
plot_df = df[cols_for_pairplot].sample(min(500, len(df)), random_state=1)

sns.pairplot(plot_df, hue='Survived', diag_kind='kde') # remove hue if no target
plt.savefig(f"{FIG_DIR}/pairplot_sample.png", bbox_inches='tight', dpi=150)
plt.show()
```

Pairplot

- Clear separation in Fare between higher and lower passenger classes.
- Age does not show strong separation between survival outcomes.
- Some clustering visible in Pclass vs Fare scatterplots.

```
In [16]: # === Tenth cell: Grouped bar chart for target vs categorical ===

target_col = 'Survived' # change if your target column is different

# Choose a few categorical columns except the target itself
cat_cols = df.select_dtypes(include=['object', 'category']).columns.tolist()

for col in cat_cols:
    if col != target_col:
        plt.figure()
        sns.countplot(x=target_col, hue=col, data=df)
        plt.title(f"{target_col} by {col}")
        plt.savefig(f"{FIG_DIR}/{target_col}_by_{col}.png", bbox_inches='tight',
                    plt.show()
```

Name	
Braund, Mr. Owen Harris	
Allen, Mr. William Henry	
Moran, Mr. James	
McCarthy, Mr. Timothy J	
Palsson, Master. Gosta Leonard	
Saunderscock, Mr. William Henry	
Andersson, Mr. Anders Johan	
Vestrom, Miss. Hulda Amanda Adolfina	
Rice, Master. Eugene	
Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele)	
Fynney, Mr. Joseph J	
Palsson, Miss. Torborg Danira	
Emir, Mr. Farred Chehab	
Fortune, Mr. Charles Alexander	
Todoroff, Mr. Lalio	
Uruchurtu, Don. Manuel E	
Wheadon, Mr. Edward H	
Meyer, Mr. Edgar Joseph	
Holverson, Mr. Alexander Oskar	
Cann, Mr. Ernest Charles	
Vander Planke, Miss. Augusta Maria	
Ahlin, Mrs. Johan (Johanna Persdotter Larsson)	
Turpin, Mrs. William John Robert (Dorothy Ann Wonnacott)	
Kraeff, Mr. Theodor	
Rogers, Mr. William John	
Lennon, Mr. Denis	
Samaan, Mr. Youssef	
Arnold-Franchi, Mrs. Josef (Josefine Franchi)	
Panula, Master. Juha Niilo	
Nosworthy, Mr. Richard Cater	
Ostby, Mr. Engelhart Cornelius	
Novel, Mr. Mansouer	
Goodwin, Master. William Frederick	
Sirayanian, Mr. Orsen	
Harris, Mr. Henry Birkhardt	
Skoog, Master. Harald	
Stewart, Mr. Albert A	
Crease, Mr. Ernest James	
Kink, Mr. Vincenz	
Jenkin, Mr. Stephen Curnow	
Goodwin, Miss. Lillian Amy	
Hood, Mr. Ambrose Jr	
Chronopoulos, Mr. Apostolos	
Moen, Mr. Sigurd Hansen	
Staneff, Mr. Ivan	
Moutal, Mr. Rahamin Haim	
Waelens, Mr. Achille	
Carrau, Mr. Francisco M	
Ford, Mr. William Neal	
Slocovski, Mr. Selman Francis	
Celotti, Mr. Francesco	
Christmann, Mr. Emil	
Andreasson, Mr. Paul Edwin	
Chaffee, Mr. Herbert Fuller	
Dean, Mr. Bertram Frank	

<input type="checkbox"/>	Coxon, Mr. Daniel
<input type="checkbox"/>	Shorney, Mr. Charles Joseph
<input type="checkbox"/>	Goldschmidt, Mr. George B
<input type="checkbox"/>	Kantor, Mr. Sinai
<input type="checkbox"/>	Petranec, Miss. Matilda
<input type="checkbox"/>	Petroff, Mr. Pastcho ("Pentcho")
<input type="checkbox"/>	White, Mr. Richard Frasar
<input type="checkbox"/>	Johansson, Mr. Gustaf Joel
<input type="checkbox"/>	Gustafsson, Mr. Anders Vilhelm
<input type="checkbox"/>	Mionoff, Mr. Stoytcho
<input type="checkbox"/>	Rekic, Mr. Tido
<input type="checkbox"/>	Porter, Mr. Walter Chamberlain
<input type="checkbox"/>	Zabour, Miss. Hileni
<input type="checkbox"/>	Barton, Mr. David John
<input type="checkbox"/>	Jussila, Miss. Katriina
<input type="checkbox"/>	Attalah, Miss. Malake
<input type="checkbox"/>	Pekoniemi, Mr. Edvard
<input type="checkbox"/>	Connors, Mr. Patrick
<input type="checkbox"/>	Turpin, Mr. William John Robert
<input type="checkbox"/>	Baxter, Mr. Quigg Edmond
<input type="checkbox"/>	Andersson, Miss. Ellis Anna Maria
<input type="checkbox"/>	Hickman, Mr. Stanley George
<input type="checkbox"/>	Moore, Mr. Leonard Charles
<input type="checkbox"/>	Nasser, Mr. Nicholas
<input type="checkbox"/>	White, Mr. Percival Wayland
<input type="checkbox"/>	McMahon, Mr. Martin
<input type="checkbox"/>	Ekstrom, Mr. Johan
<input type="checkbox"/>	Drazenoic, Mr. Jozef
<input type="checkbox"/>	Coelho, Mr. Domingos Fernando
<input type="checkbox"/>	Robins, Mrs. Alexander A (Grace Charity Laury)
<input type="checkbox"/>	Sobey, Mr. Samuel James Hayden
<input type="checkbox"/>	Richard, Mr. Emile
<input type="checkbox"/>	Futrelle, Mr. Jacques Heath
<input type="checkbox"/>	Osen, Mr. Olaf Elon
<input type="checkbox"/>	Giglio, Mr. Victor
<input type="checkbox"/>	Boulos, Mrs. Joseph (Sultana)
<input type="checkbox"/>	Burke, Mr. Jeremiah
<input type="checkbox"/>	Andrew, Mr. Edgardo Samuel
<input type="checkbox"/>	Nicholls, Mr. Joseph Charles
<input type="checkbox"/>	Ford, Miss. Robina Maggie "Ruby"
<input type="checkbox"/>	Navratil, Mr. Michel ("Louis M Hoffman")
<input type="checkbox"/>	Byles, Rev. Thomas Roussel Davids
<input type="checkbox"/>	Bateman, Rev. Robert James
<input type="checkbox"/>	Meo, Mr. Alfonzo
<input type="checkbox"/>	van Billiard, Mr. Austin Blyler
<input type="checkbox"/>	Olsen, Mr. Ole Martin
<input type="checkbox"/>	Williams, Mr. Charles Duane
<input type="checkbox"/>	Corn, Mr. Harry
<input type="checkbox"/>	Smiljanic, Mr. Mile
<input type="checkbox"/>	Sage, Master. Thomas Henry
<input type="checkbox"/>	Cribb, Mr. John Hatfield
<input type="checkbox"/>	Bengtsson, Mr. John Viktor
<input type="checkbox"/>	Calic, Mr. Jovo
<input type="checkbox"/>	Panula, Master. Eino Viljami
<input type="checkbox"/>	Skoog, Mrs. William (Anna Bernhardina Karlsson)
<input type="checkbox"/>	Baumann, Mr. John D
<input type="checkbox"/>	Ling, Mr. Lee

Van der hoef, Mr. Wyckoff
Rice, Master. Arthur
Sivola, Mr. Antti Wilhelm
Smith, Mr. James Clinch
Klasen, Mr. Klas Albin
Lefebvre, Master. Henry Forbes
Isham, Miss. Ann Elizabeth
Hale, Mr. Reginald
Leonard, Mr. Lionel
Sage, Miss. Constance Gladys
Pernot, Mr. Rene
Asplund, Master. Clarence Gustaf Hugo
Rood, Mr. Hugh Roscoe
Bourke, Mr. John
Turcin, Mr. Stjepan
Carbines, Mr. William
Mernagh, Mr. Robert
Olsen, Mr. Karl Siegwart Andreas
Yrois, Miss. Henriette ("Mrs Harbeck")
Vande Walle, Mr. Nestor Cyriel
Sage, Mr. Frederick
Johanson, Mr. Jakob Alfred
Youseff, Mr. Gerious
Strom, Miss. Telma Matilda
Backstrom, Mr. Karl Alfred
Ali, Mr. Ahmed
Perkin, Mr. John Henry
Givard, Mr. Hans Kristensen
Kiernan, Mr. Philip
Jacobsohn, Mr. Sidney Samuel
Harris, Mr. Walter
Bracken, Mr. James H
Green, Mr. George Henry
Nenkoff, Mr. Christo
Berglund, Mr. Karl Ivar Sven
Lovell, Mr. John Hall ("Henry")
Fahlstrom, Mr. Arne Jonas
Lefebvre, Miss. Mathilde
Larsson, Mr. Bengt Edvin
Sjostedt, Mr. Ernst Adolf
Leyson, Mr. Robert William Norman
Harknett, Miss. Alice Phoebe
Hold, Mr. Stephen
Pengelly, Mr. Frederick William
Hunt, Mr. George Henry
Zabour, Miss. Thamine
Coleridge, Mr. Reginald Charles
Maenpaa, Mr. Matti Alexanteri
Attalah, Mr. Sleiman
Minahan, Dr. William Edward
Lindahl, Miss. Agda Thorilda Viktoria
Carter, Rev. Ernest Courtenay
Reed, Mr. James George
Strom, Mrs. Wilhelm (Elna Matilda Persson)
Stead, Mr. William Thomas
Lobb, Mr. William Arthur
Rosblom, Mrs. Viktor (Helena Wilhelmina)

■ Smith, Mr. Thomas
■ Taussig, Mr. Emil
■ Harrison, Mr. William
■ Henry, Miss. Delia
■ Reeves, Mr. David
■ Panula, Mr. Ernesti Arvid
■ Cairns, Mr. Alexander
■ Natsch, Mr. Charles H
■ Lindblom, Miss. Augusta Charlotta
■ Parkes, Mr. Francis "Frank"
■ Rice, Master. Eric
■ Duane, Mr. Frank
■ Olsson, Mr. Nils Johan Goransson
■ de Pelsmaecker, Mr. Alfons
■ Smith, Mr. Richard William
■ Stankovic, Mr. Ivan
■ Naidenoff, Mr. Penko
■ Levy, Mr. Rene Jacques
■ Haas, Miss. Aloisia
■ Mineff, Mr. Ivan
■ Lewy, Mr. Ervin G
■ Hanna, Mr. Mansour
■ Allison, Miss. Helen Loraine
■ Johnson, Mr. William Cahoon Jr
■ Williams, Mr. Howard Hugh "Harry"
■ Abelson, Mr. Samuel
■ Lahtinen, Mrs. William (Anna Sylfven)
■ Hendekovic, Mr. Ignjac
■ Hart, Mr. Benjamin
■ Moraweck, Dr. Ernest
■ Dennis, Mr. Samuel
■ Danoff, Mr. Yoto
■ Sage, Mr. George John Jr
■ Nysveen, Mr. Johan Hansen
■ Partner, Mr. Austen
■ Graham, Mr. George Edward
■ Vander Planke, Mr. Leo Edmondus
■ Denkoff, Mr. Mitto
■ Pears, Mr. Thomas Clinton
■ Blackwell, Mr. Stephen Weart
■ Collander, Mr. Erik Gustaf
■ Sedgwick, Mr. Charles Frederick Waddington
■ Fox, Mr. Stanley Hubert
■ Dimic, Mr. Jovan
■ Odahl, Mr. Nils Martin
■ Williams-Lambert, Mr. Fletcher Fellows
■ Elias, Mr. Tannous
■ Arnold-Franchi, Mr. Josef
■ Yousif, Mr. Wazli
■ Vanden Steen, Mr. Leo Peter
■ Funk, Miss. Annie Clemmer
■ Skoog, Mr. Wilhelm
■ del Carlo, Mr. Sebastiano
■ Barbara, Mrs. (Catherine David)
■ Asim, Mr. Adola
■ O'Brien, Mr. Thomas
■ Adahl. Mr. Mauritz Nils Martin

Wiklund, Mr. Jakob Alfred
Beavan, Mr. William Thomas
Ringhini, Mr. Sante
Palsson, Miss. Stina Viola
Widener, Mr. Harry Elkins
Betros, Mr. Tannous
Gustafsson, Mr. Karl Gideon
Tikkanen, Mr. Juho
Plotcharsky, Mr. Vasil
Davies, Mr. Charles Henry
Goodwin, Master. Sidney Leonard
Sadlier, Mr. Matthew
Gustafsson, Mr. Johan Birger
Johansson, Mr. Erik
Olsson, Miss. Elina
McKane, Mr. Peter David
Pain, Dr. Alfred
Adams, Mr. John
Jussila, Miss. Mari Aina
Hakkarainen, Mr. Pekka Pietari
Oreskovic, Miss. Marija
Gale, Mr. Shadrach
Widegren, Mr. Carl/Charles Peter
Birkeland, Mr. Hans Martin Monsen
Lefebvre, Miss. Ida
Sdycoff, Mr. Todor
Hart, Mr. Henry
Cunningham, Mr. Alfred Fleming
Meek, Mrs. Thomas (Annie Louise Rowley)
Matthews, Mr. William John
Van Impe, Miss. Catharina
Gheorgheff, Mr. Stanio
Charters, Mr. David
Zimmerman, Mr. Leo
Danbom, Mrs. Ernst Gilbert (Anna Sigrid Maria Brogren)
Rosblom, Mr. Viktor Richard
Wiseman, Mr. Phillippe
Flynn, Mr. James
Kallio, Mr. Nikolai Erland
Silvey, Mr. William Baird
Ford, Miss. Doolina Margaret "Daisy"
Fortune, Mr. Mark
Kvillner, Mr. Johan Henrik Johannesson
Hampe, Mr. Leon
Petterson, Mr. Johan Emil
West, Mr. Edwy Arthur
Hagland, Mr. Ingvald Olai Olsen
Foreman, Mr. Benjamin Laventall
Peduzzi, Mr. Joseph
Millet, Mr. Francis Davis
O'Connor, Mr. Maurice
Morley, Mr. William
Gee, Mr. Arthur H
Milling, Mr. Jacob Christian
Maisner, Mr. Simon
Goncalves, Mr. Manuel Estanslas
Campbell, Mr. William

Campbell, Mr. William
 Smart, Mr. John Montgomery
 Scanlan, Mr. James
 Keefe, Mr. Arthur
 Cacic, Mr. Luka
 Strandberg, Miss. Ida Sofia
 Clifford, Mr. George Quincy
 Renouf, Mr. Peter Henry
 Braund, Mr. Lewis Richard
 Karlsson, Mr. Nils August
 Goodwin, Master. Harold Victor
 Frost, Mr. Anthony Wood "Archie"
 Rouse, Mr. Richard Henry
 Lefebvre, Miss. Jeannie
 Kent, Mr. Edward Austin
 Somerton, Mr. Francis William
 Hagland, Mr. Konrad Mathias Reiersen
 Windelov, Mr. Einar
 Molson, Mr. Harry Markland
 Artagaveytia, Mr. Ramon
 Stanley, Mr. Edward Roland
 Yousseff, Mr. Gerious
 Shellard, Mr. Frederick William
 Allison, Mrs. Hudson J C (Bessie Waldo Daniels)
 Svensson, Mr. Olof
 Calic, Mr. Petar
 Canavan, Miss. Mary
 O'Sullivan, Miss. Bridget Mary
 Laitinen, Miss. Kristina Sofia
 Penasco y Castellana, Mr. Victor de Satode
 Olsen, Mr. Henry Margido
 Webber, Mr. James
 Coleff, Mr. Satio
 Walker, Mr. William Anderson
 Ryan, Mr. Patrick
 Pavlovic, Mr. Stefo
 Vovk, Mr. Janko
 Lahoud, Mr. Sarkis
 Kassem, Mr. Fared
 Farrell, Mr. James
 Farthing, Mr. John
 Salonen, Mr. Johan Werner
 Hocking, Mr. Richard George
 Toufik, Mr. Nakli
 Elias, Mr. Joseph Jr
 Cacic, Miss. Marija
 Butt, Major. Archibald Willingham
 Risien, Mr. Samuel Beard
 Andersson, Miss. Ingeborg Constanzia
 Andersson, Miss. Sigrid Elisabeth
 Douglas, Mr. Walter Donald
 Nicholson, Mr. Arthur Ernest
 Goldsmith, Mr. Frank John
 Sharp, Mr. Percival James R
 O'Brien, Mr. Timothy
 Wright, Mr. George
 Robbins, Mr. Victor

Morrow, Mr. Thomas Rowan
Sivic, Mr. Husein
Norman, Mr. Robert Douglas
Simmons, Mr. John
Meanwell, Miss. (Marion Ogden)
Davies, Mr. Alfred J
Stoytcheff, Mr. Ilia
Palsson, Mrs. Nils (Alma Cornelia Berglund)
Doharr, Mr. Tannous
Rush, Mr. Alfred George John
Patchett, Mr. George
Caram, Mrs. Joseph (Maria Elias)
Downton, Mr. William James
Ross, Mr. John Hugo
Paulner, Mr. Uscher
Jarvis, Mr. John Denzil
Gilinski, Mr. Eliezer
Murdlin, Mr. Joseph
Rintamaki, Mr. Matti
Elsbury, Mr. William James
Bourke, Miss. Mary
Chapman, Mr. John Henry
Van Impe, Mr. Jean Baptiste
Johnson, Mr. Alfred
Boulos, Mr. Hanna
Slabenoff, Mr. Petco
Harrington, Mr. Charles H
Torber, Mr. Ernst William
Lindell, Mr. Edvard Bengtsson
Karaic, Mr. Milan
Andersson, Mrs. Anders Johan (Alfrida Konstantia Brogren)
Jardin, Mr. Jose Neto
Horgan, Mr. John
Brocklebank, Mr. William Alfred
Danbom, Mr. Ernst Gilbert
Lobb, Mrs. William Arthur (Cordelia K Stanlick)
Gavey, Mr. Lawrence
Yasbeck, Mr. Antoni
Hansen, Mr. Henry Damsgaard
Bowen, Mr. David John "Dai"
Sutton, Mr. Frederick
Kirkland, Rev. Charles Leonard
Bostandyeff, Mr. Guentcho
O'Connell, Mr. Patrick D
Lundahl, Mr. Johan Svensson
Parr, Mr. William Henry Marsh
Skoog, Miss. Mabel
Leinonen, Mr. Antti Gustaf
Collyer, Mr. Harvey
Panula, Mrs. Juha (Maria Emilia Ojala)
Thorneycroft, Mr. Percival
Jensen, Mr. Hans Peder
Skoog, Miss. Margit Elizabeth
Cor, Mr. Liudevrit
Willey, Mr. Edward
Mitkoff, Mr. Mito
Kalvik, Mr. Johannes Halvorsen

<input type="checkbox"/>	Hegarty, Miss. Hanora "Nora"
<input type="checkbox"/>	Hickman, Mr. Leonard Mark
<input type="checkbox"/>	Radeff, Mr. Alexander
<input type="checkbox"/>	Bourke, Mrs. John (Catherine)
<input type="checkbox"/>	Eitemiller, Mr. George Floyd
<input type="checkbox"/>	Newell, Mr. Arthur Webster
<input type="checkbox"/>	Badt, Mr. Mohamed
<input type="checkbox"/>	Colley, Mr. Edward Pomeroy
<input type="checkbox"/>	Coleff, Mr. Peju
<input type="checkbox"/>	Hickman, Mr. Lewis
<input type="checkbox"/>	Butler, Mr. Reginald Fenton
<input type="checkbox"/>	Rommetvedt, Mr. Knud Paust
<input type="checkbox"/>	Cook, Mr. Jacob
<input type="checkbox"/>	Davidson, Mr. Thornton
<input type="checkbox"/>	Mitchell, Mr. Henry Michael
<input type="checkbox"/>	Watson, Mr. Ennis Hastings
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Cavendish, Mr. Tyrell William
McNamee, Mr. Neal
Crosby, Capt. Edward Gifford
Abbott, Mr. Rossmore Edward
Marvin, Mr. Daniel Warner
Connaghton, Mr. Michael
Vande Velde, Mr. Johannes Joseph
Jonkoff, Mr. Lelio
Carlsson, Mr. August Sigfrid
Bailey, Mr. Percy Andrew
Theobald, Mr. Thomas Leonard
Garfirth, Mr. John
Nirva, Mr. Iisakki Antino Aijo
Eklund, Mr. Hans Linus
Brewer, Dr. Arthur Jackson
Mangan, Miss. Mary
Moran, Mr. Daniel J
Gronnestad, Mr. Daniel Danielsen
Lievens, Mr. Rene Aime
Jensen, Mr. Niels Peder
Mack, Mrs. (Mary)
Elias, Mr. Dibo
Myhrman, Mr. Pehr Fabian Oliver Malkolm
Tobin, Mr. Roger
Kilgannon, Mr. Thomas J
Long, Mr. Milton Clyde
Johnston, Mr. Andrew G
Ali, Mr. William
Harmer, Mr. Abraham (David Lishin)
Rice, Master. George Hugh
Guggenheim, Mr. Benjamin
Keane, Mr. Andrew "Andy"
Gaskell, Mr. Alfred
Sage, Miss. Stella Anna
Hoyt, Mr. William Fisher
Dantcheff, Mr. Ristiu
Otter, Mr. Richard
Ibrahim Shawah, Mr. Yousseff
Van Impe, Mrs. Jean Baptiste (Rosalie Paula Govaert)
Ponesell, Mr. Martin
Johansson, Mr. Karl Johan
Andrews, Mr. Thomas Jr
Pettersson, Miss. Ellen Natalia
Meyer, Mr. August
Alexander, Mr. William
Lester, Mr. James
Slemen, Mr. Richard James
Andersson, Miss. Ebba Iris Alfrida
Tomlin, Mr. Ernest Portage
Fry, Mr. Richard
Heininen, Miss. Wendla Maria
Mallet, Mr. Albert
Holm, Mr. John Fredrik Alexander
Skoog, Master. Karl Thorsten
Reuchlin, Jonkheer. John George
Panula, Master. Urho Abraham
Flynn, Mr. John

Lam, Mr. Len
Saad, Mr. Amin
Augustsson, Mr. Albert
Allum, Mr. Owen George
Pasic, Mr. Jakob
Sirota, Mr. Maurice
Alhomaki, Mr. Ilmari Rudolf
Mudd, Mr. Thomas Charles
Lemberopolous, Mr. Peter L
Culumovic, Mr. Jeso
Abbing, Mr. Anthony
Sage, Mr. Douglas Bullen
Markoff, Mr. Marin
Harper, Rev. John
Andersson, Master. Sigvard Harald Elias
Svensson, Mr. Johan
Boulos, Miss. Nourelain
Carter, Mrs. Ernest Courtenay (Lilian Hughes)
Razi, Mr. Raihed
Hansen, Mr. Claus Peter
Giles, Mr. Frederick Edward
Sage, Miss. Dorothy Edith "Dolly"
Gill, Mr. John William
Roebing, Mr. Washington Augustus II
van Melkebeke, Mr. Philemon
Balkic, Mr. Cerin
Carlsson, Mr. Frans Olof
Vander Cruyssen, Mr. Victor
Gustafsson, Mr. Alfred Ossian
Petroff, Mr. Nedelio
Laleff, Mr. Kristo
Markun, Mr. Johann
Dahlberg, Miss. Gerda Ulrika
Banfield, Mr. Frederick James
Sutehall, Mr. Henry Jr
Rice, Mrs. William (Margaret Norton)
Montvila, Rev. Juozas
Johnston, Miss. Catherine Helen "Carrie"
Dooley, Mr. Patrick
Cumings, Mrs. John Bradley (Florence Briggs Thayer)
Heikkinen, Miss. Laina
Futrelle, Mrs. Jacques Heath (Lily May Peel)
Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)
Nasser, Mrs. Nicholas (Adele Achem)
Sandstrom, Miss. Marguerite Rut
Bonnell, Miss. Elizabeth
Hewlett, Mrs. (Mary D Kingcome)
Williams, Mr. Charles Eugene
Masselmani, Mrs. Fatima
Beesley, Mr. Lawrence
McGowan, Miss. Anna "Annie"
Sloper, Mr. William Thompson
Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson)
O'Dwyer, Miss. Ellen "Nellie"
Spencer, Mrs. William Augustus (Marie Eugenie)
Glynn, Miss. Mary Agatha
Mamee, Mr. Hanna

Nicola-Yarred, Miss. Jamila
 Laroche, Miss. Simonne Marie Anne Andree
 Devaney, Miss. Margaret Delia
 O'Driscoll, Miss. Bridget
 Harper, Mrs. Henry Sleeper (Myna Haxtun)
 Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)
 Woolner, Mr. Hugh
 Rugg, Miss. Emily
 West, Miss. Constance Mirium
 Icard, Miss. Amelie
 Moubarek, Master. Gerios
 Nye, Mrs. (Elizabeth Ramell)
 Andersson, Miss. Erna Alexandra
 Bing, Mr. Lee
 Caldwell, Master. Alden Gates
 Dowdell, Miss. Elizabeth
 Sheerlinck, Mr. Jan Baptist
 McDermott, Miss. Brigdet Delia
 Ilett, Miss. Bertha
 Backstrom, Mrs. Karl Alfred (Maria Mathilda Gustafsson)
 Fortune, Miss. Mabel Helen
 Greenfield, Mr. William Bertram
 Doling, Mrs. John T (Ada Julia Bone)
 Salkjelsvik, Miss. Anna Kristine
 Moss, Mr. Albert Johan
 Moran, Miss. Bertha
 Webber, Miss. Susan
 Nicola-Yarred, Master. Elias
 Madsen, Mr. Fridtjof Arne
 Peter, Miss. Anna
 Weisz, Mrs. Leopold (Mathilde Francoise Pede)
 Newsom, Miss. Helen Monypeny
 Nysten, Miss. Anna Sofia
 Hakkarainen, Mrs. Pekka Pietari (Elin Matilda Dolck)
 Andersson, Mr. August Edvard ("Wennerstrom")
 Pears, Mrs. Thomas (Edith Wearne)
 Gilnagh, Miss. Katherine "Katie"
 Watt, Mrs. James (Elizabeth "Bessie" Inglis Milne)
 Goldsmith, Master. Frank John William "Frankie"
 Chibnall, Mrs. (Edith Martha Bowerman)
 Johnson, Miss. Eleanor Ileen
 Becker, Master. Richard F
 Kink-Heilmann, Miss. Luise Gretchen
 O'Brien, Mrs. Thomas (Johanna "Hannah" Godfrey)
 Romaine, Mr. Charles Hallace ("Mr C Rolmane")
 Pinsky, Mrs. (Rosa)
 Andersen-Jensen, Miss. Carla Christine Nielsine
 Navratil, Master. Michel M
 Brown, Mrs. James Joseph (Margaret Tobin)
 Lurette, Miss. Elise
 Madigan, Miss. Margaret "Maggie"
 Cohen, Mr. Gurshon "Gus"
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 Carr, Miss. Helen "Ellen"
 Blank, Mr. Henry
 Cameron, Miss. Clear Annie
 Newell, Miss. Madeleine

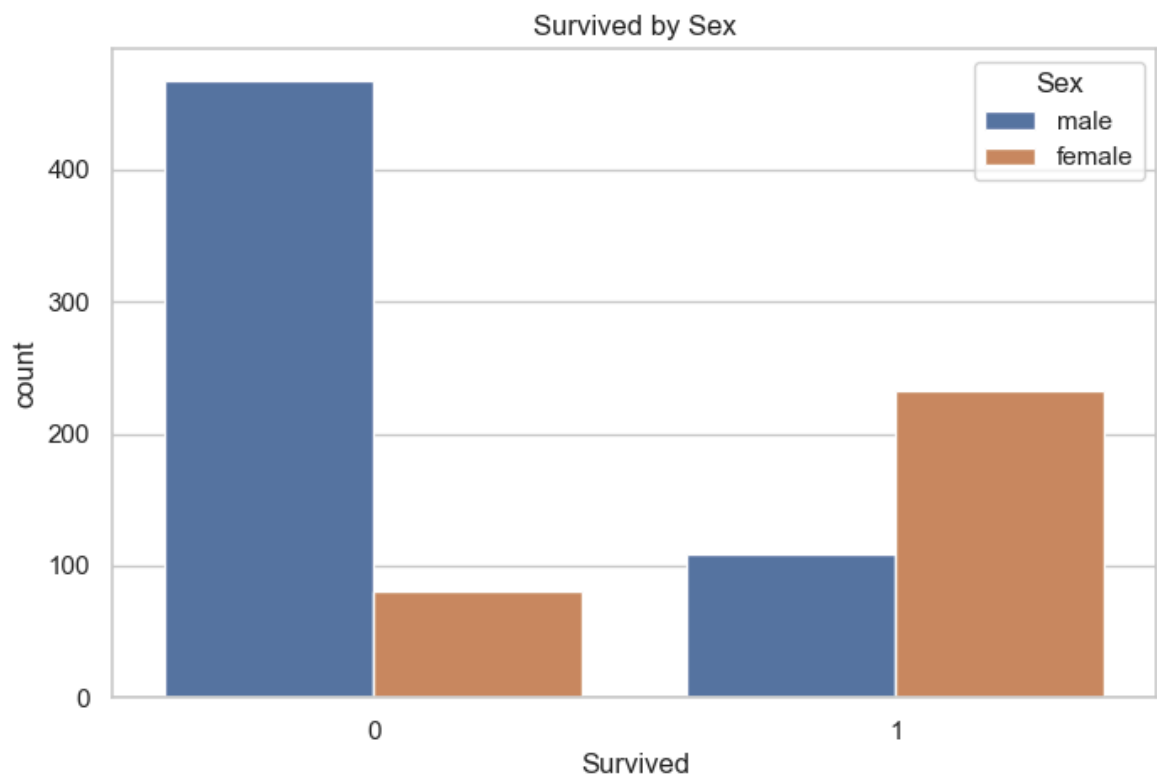
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Navratil, Master. Edmond Roger
Fortune, Miss. Alice Elizabeth
Brown, Miss. Amelia "Mildred"
Smith, Miss. Marion Elsie
Davison, Mrs. Thomas Henry (Mary E Finck)
Coutts, Master. William Loch "William"
Bowerman, Miss. Elsie Edith
McGovern, Miss. Mary
Mockler, Miss. Helen Mary "Ellie"
Warren, Mrs. Frank Manley (Anna Sophia Atkinson)
Moussa, Mrs. (Mantoura Boulos)
Jermyn, Miss. Annie
Aubart, Mme. Leontine Pauline
Harder, Mr. George Achilles
Meyer, Mrs. Edgar Joseph (Leila Saks)
Landergren, Miss. Aurora Adelia
Bidois, Miss. Rosalie
Nakid, Miss. Maria ("Mary")
Holverson, Mrs. Alexander Oskar (Mary Aline Towner)
Buss, Miss. Kate
Lehmann, Miss. Bertha
Carter, Mr. William Ernest
Jansson, Mr. Carl Olof
Newell, Miss. Marjorie
Sandstrom, Mrs. Hjalmar (Agnes Charlotta Bengtsson)
Trout, Mrs. William H (Jessie L)
Niskanen, Mr. Juha
Richards, Master. William Rowe
Minahan, Miss. Daisy E
Sundman, Mr. Johan Julian
Drew, Mrs. James Vivian (Lulu Thorne Christian)
Silven, Miss. Lyyli Karoliina
Clarke, Mrs. Charles V (Ada Maria Winfield)
Phillips, Miss. Kate Florence ("Mrs Kate Louise Phillips Marshall")
Pickard, Mr. Berk (Berk Trembisky)
Bjornstrom-Steffansson, Mr. Mauritz Hakan
Thorneycroft, Mrs. Percival (Florence Kate White)
Louch, Mrs. Charles Alexander (Alice Adelaide Slow)
Carter, Miss. Lucile Polk
Richards, Mrs. Sidney (Emily Hocking)
Hart, Mrs. Benjamin (Esther Ada Bloomfield)
Reynaldo, Ms. Encarnacion
Johannesen-Bratthammer, Mr. Bernt
Dodge, Master. Washington
Mellinger, Miss. Madeleine Violet
Seward, Mr. Frederic Kimber
Baclini, Miss. Marie Catherine
Peuchen, Major. Arthur Godfrey
Goldenberg, Mr. Samuel L
Jalsevac, Mr. Ivan
Kenyon, Mrs. Frederick R (Marion)
Toomey, Miss. Ellen
Anderson, Mr. Harry
Baclini, Miss. Helene Barbara
West, Mrs. Edwy Arthur (Ada Mary Worth)
Jerwan, Mrs. Amin S (Marie Marthe Thuillard)
Hirvonen, Miss. Hildur E

Turkula, Mrs. (Hedwig)
Bishop, Mr. Dickinson H
Hoyt, Mrs. Frederick Maxfield (Jane Anne Forby)
Coutts, Master. Eden Leslie "Neville"
Eustis, Miss. Elizabeth Mussey
Maioni, Miss. Roberta
Quick, Mrs. Frederick Charles (Jane Richards)
Bradley, Mr. George ("George Arthur Brayton")
Lang, Mr. Fang
Daly, Mr. Eugene Patrick
McGough, Mr. James Robert
Rothschild, Mrs. Martin (Elizabeth L. Barrett)
Lemore, Mrs. (Amelia Milley)
Angle, Mrs. William A (Florence "Mary" Agnes Hughes)
Perreault, Miss. Anne
Hippach, Mrs. Louis Albert (Ida Sophia Fischer)
Ridsdale, Miss. Lucy
Quick, Miss. Phyllis May
Peter, Mrs. Catherine (Catherine Rizk)
Hart, Miss. Eva Miriam
LeRoy, Miss. Bertha
Frolicher, Miss. Hedwig Margaritha
Crosby, Miss. Harriet R
Beane, Mr. Edward
Beane, Mrs. Edward (Ethel Clarke)
Padro y Manent, Mr. Julian
Davies, Master. John Morgan Jr
Thayer, Mr. John Borland Jr
Leeni, Mr. Fahim ("Philip Zenni")
Ohman, Miss. Velin
Duff Gordon, Lady. (Lucille Christiana Sutherland) ("Mrs Morgan")
Taussig, Mrs. Emil (Tillie Mandelbaum)
de Messemaeker, Mrs. Guillaume Joseph (Emma)
Jonsson, Mr. Carl
Harris, Mr. George
Appleton, Mrs. Edward Dale (Charlotte Lamson)
Flynn, Mr. John Irwin ("Irving")
Kelly, Miss. Mary
Garside, Miss. Ethel
Silvey, Mrs. William Baird (Alice Munger)
Jussila, Mr. Eirik
Christy, Miss. Julie Rachel
Thayer, Mrs. John Borland (Marian Longstreth Morris)
Taussig, Miss. Ruth
Frolicher-Stehli, Mr. Maxmillian
Stephenson, Mrs. Walter Bertram (Martha Eustis)
Leitch, Miss. Jessie Wills
Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan")
Jacobsohn, Mrs. Sidney Samuel (Amy Frances Christy)
Homer, Mr. Harry ("Mr E Haven")
Daniel, Mr. Robert Williams
Laroche, Mrs. Joseph (Juliette Marie Louise Lafargue)
Shutes, Miss. Elizabeth W
Murphy, Miss. Margaret Jane
Herman, Miss. Alice
Becker, Miss. Marion Louise
Kimball, Mr. Edwin Nelson Jr

■ Nakid, Mr. Sahid
■ Longley, Miss. Gretchen Fiske
■ Barkworth, Mr. Algernon Henry Wilson
■ Stahelin-Maeglin, Dr. Max
■ Davis, Miss. Mary
■ Sageesser, Mlle. Emma
■ Foo, Mr. Choong
■ Baclini, Miss. Eugenie
■ Harper, Mr. Henry Sleeper
■ Simonius-Blumer, Col. Oberst Alfons
■ Stanley, Miss. Amy Zillah Elsie
■ Doling, Miss. Elsie
■ O'Leary, Miss. Hanora "Norah"
■ Frauenthal, Dr. Henry William
■ Lindqvist, Mr. Eino William
■ Taylor, Mrs. Elmer Zebley (Juliet Cummins Wright)
■ Brown, Mrs. Thomas William Solomon (Elizabeth Catherine Ford)
■ Wilhelms, Mr. Charles
■ Turja, Miss. Anna Sofia
■ Cardeza, Mr. Thomas Drake Martinez
■ Hassab, Mr. Hammad
■ Madill, Miss. Georgette Alexandra
■ Dick, Mr. Albert Adrian
■ Karun, Miss. Manca
■ Lam, Mr. Ali
■ Mullens, Miss. Katherine "Katie"
■ Astor, Mrs. John Jacob (Madeleine Talmadge Force)
■ Silverthorne, Mr. Spencer Victor
■ Kelly, Mrs. Florence "Fannie"
■ Calderhead, Mr. Edward Pennington
■ Cleaver, Miss. Alice
■ Moubarek, Master. Halim Gonios ("William George")
■ Mayne, Mlle. Berthe Antonine ("Mrs de Villiers")
■ Taylor, Mr. Elmer Zebley
■ Endres, Miss. Caroline Louise
■ Troutt, Miss. Edwina Celia "Winnie"
■ Harper, Miss. Annie Jessie "Nina"
■ Chambers, Mr. Norman Campbell
■ Renouf, Mrs. Peter Henry (Lillian Jefferys)
■ Mannion, Miss. Margareth
■ Allen, Miss. Elisabeth Walton
■ Lesurer, Mr. Gustave J
■ Hawksford, Mr. Walter James
■ Ryerson, Miss. Susan Parker "Suzette"
■ Stranden, Mr. Juho
■ Sinkkonen, Miss. Anna
■ Wells, Miss. Joan
■ Moor, Master. Meier
■ Herman, Mrs. Samuel (Jane Laver)
■ Hamalainen, Master. Viljo
■ Rothes, the Countess. of (Lucy Noel Martha Dyer-Edwards)
■ Barah, Mr. Hanna Assi
■ Carter, Mrs. William Ernest (Lucile Polk)
■ Hogeboom, Mrs. John C (Anna Andrews)
■ Hocking, Mrs. Elizabeth (Eliza Needs)
■ Emanuel, Miss. Virginia Ethel
■ Robert, Mrs. Edward Scott (Elisabeth Walton McMillan)





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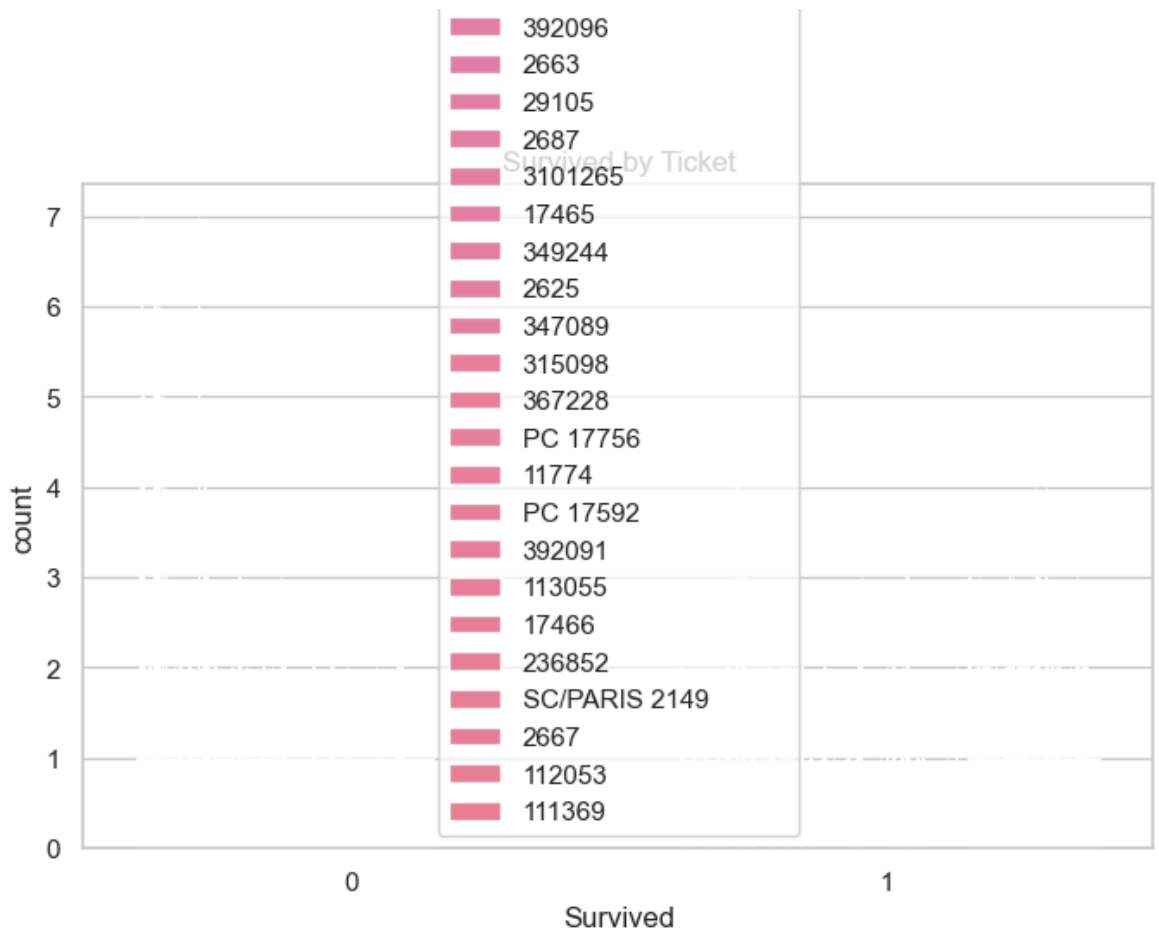
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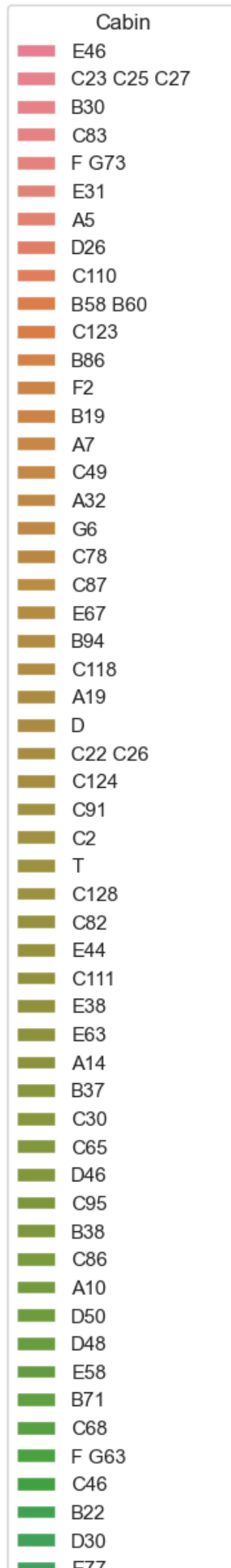
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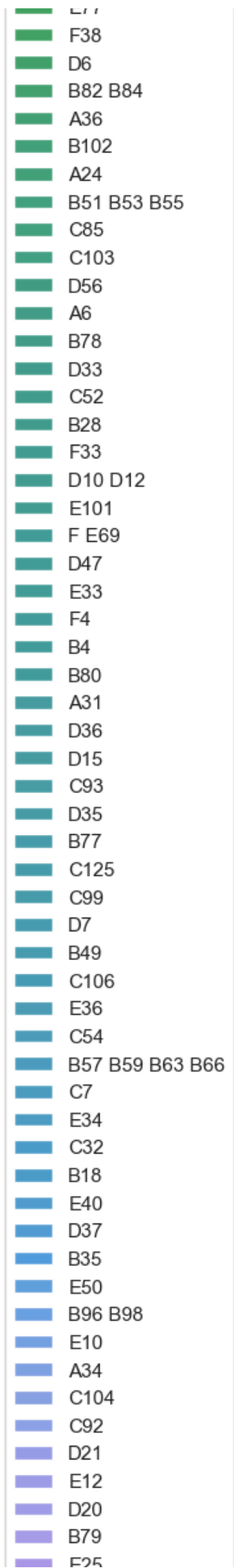
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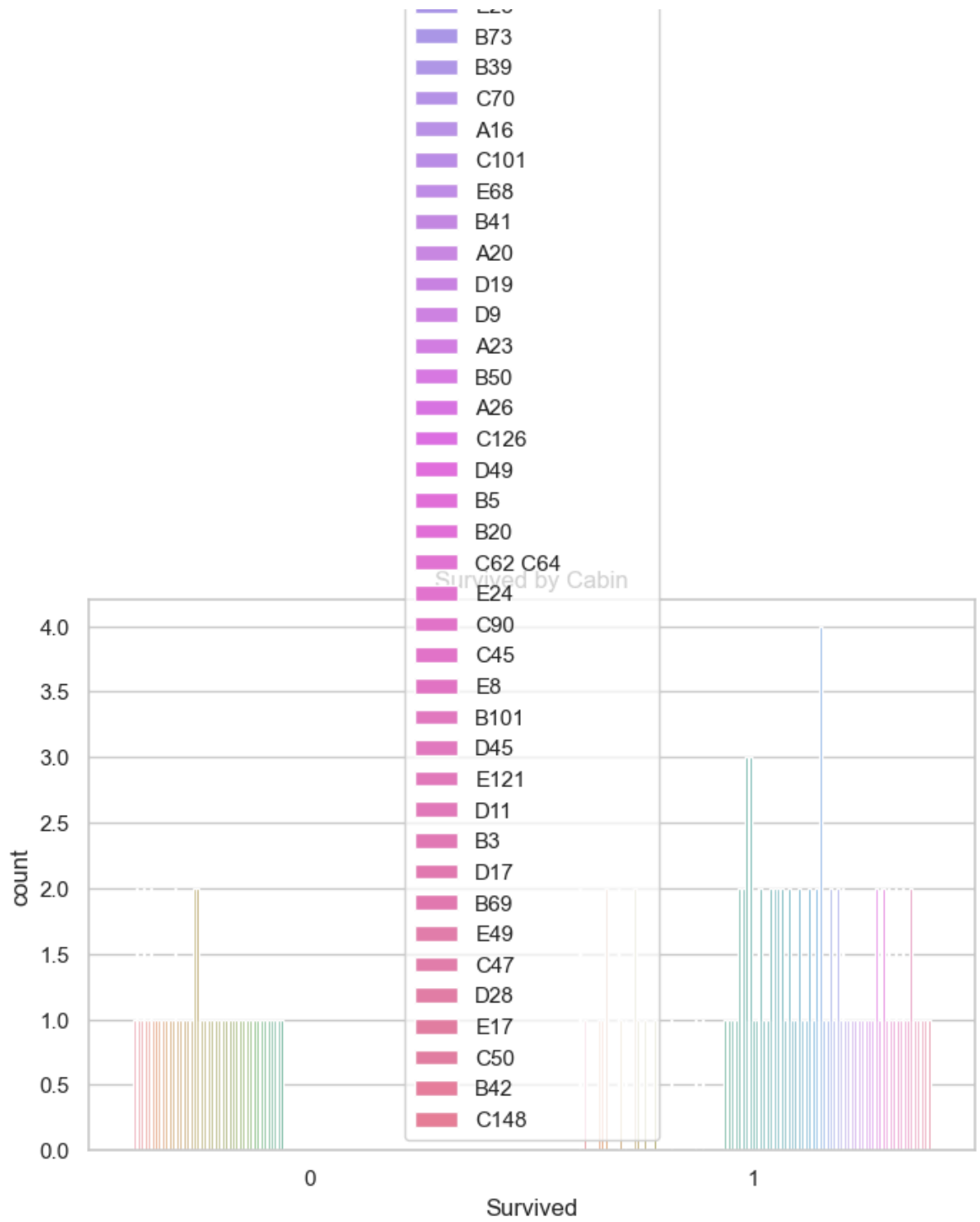
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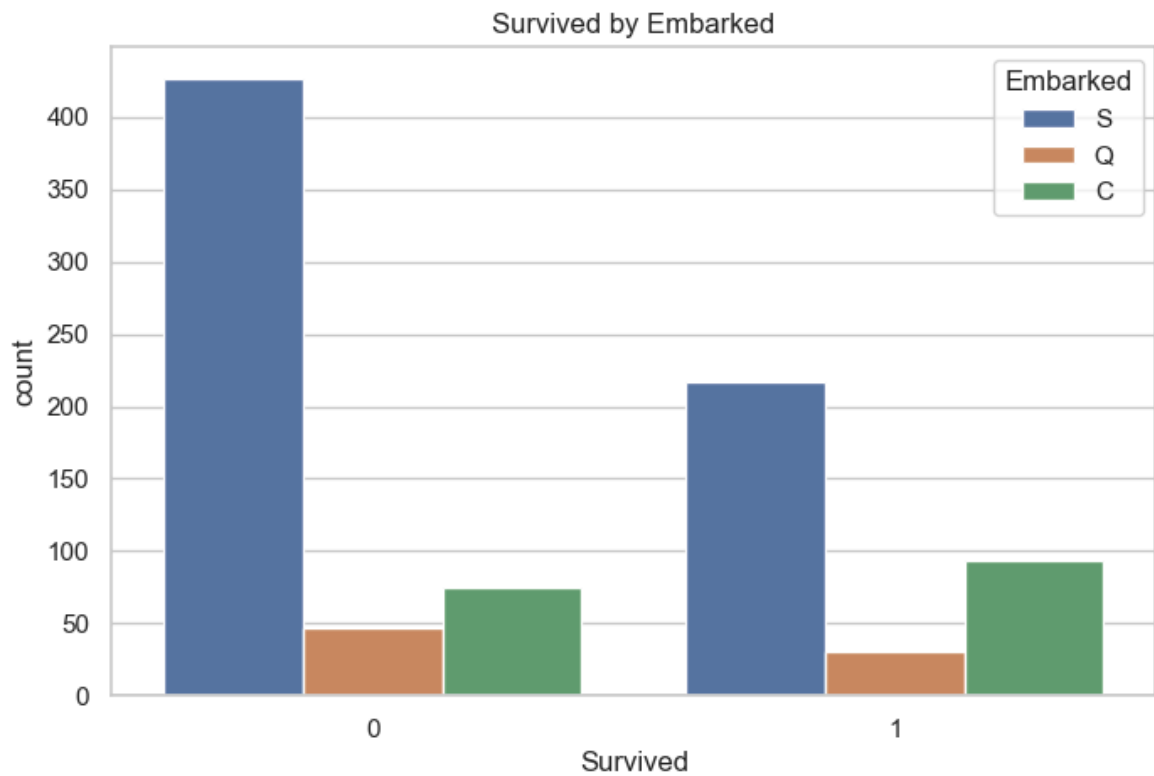
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Survival by Categorical Variables

- Female passengers had a much higher survival rate than male passengers.
- 1st class passengers had higher survival rates than 2nd or 3rd.
- Some embarkation ports show differences in survival rates.

Final Summary of Findings

- The dataset contained **X** rows and **Y** columns, with some missing values in specific columns (e.g., Cabin).
- Key demographic patterns: majority passengers aged 20–40; male passengers outnumbered females.
- Socio-economic influence: 1st class passengers tended to be older and had higher survival rates.
- Survival patterns: females and younger passengers had better survival chances.
- Recommendations for next steps:
 - Create new features such as "Family Size" and "Title" from names.
 - Handle missing values for critical features using median/mode or predictive imputation.
 - Use findings to inform machine learning models.