In [1]:	<pre>import numpy as np import pandas as pd import matplotlib.pyplot as plt import seaborn as sns from scipy.stats import skew from sklearn.impute import KNNImputer import warnings as w w.filterwarnings ("ignore")</pre>
In [4]: Out[4]:	df=pd.read_csv("tested.csv", na_values=["?", "missing"]) PassengerId Survived Pclass Name Sex Age SibSp Parch Ticket Fare Cabin Embarked 0 892 0 3 Kelly, Mr. James male 34.5 0 0 3 330911 7.8292 NaN Q 1 893 1 3 Wilkes, Mrs. James (Ellen Needs) female 47.0 1 0 363272 7.0000 NaN S 2 894 0 2 Myles, Mr. Thomas Francis male 62.0 0 0 0 240276 9.6875 NaN Q 3 895 0 3 Wirz, Mr. Albert male 27.0 0 0 315154 8.6625 NaN S
	4 896 1 3 Hirvonen, Mrs. Alexander (Helga E Lindqvist) female 22.0 1 1 3101298 12.2875 NaN S
In [5]: Out[5]:	418 rows × 12 columns df . transpose() replace 10
	Name
<pre>In [6]: In [7]: Out[7]:</pre>	
	0 0 3 male 34.5 0 0 7.8292 Q 1 1 3 female 47.0 1 0 7.0000 S 2 0 2 male 62.0 0 0 9.6875 Q 3 0 3 male 27.0 0 0 8.6625 S 4 1 3 female 22.0 1 1 12.2875 S
	413 0 3 male NaN 0 0 8.0500 S 414 1 1 female 39.0 0 0 108.9000 C 415 0 3 male NaN 0 0 7.2500 S 416 0 3 male NaN 0 0 8.0500 S 417 0 3 male NaN 1 1 22.3583 C
In [8]: Out[8]:	<pre>df.isna().sum() Survived</pre>
In [9]: In [10]: Out[10]:	<pre>from sklearn.impute import KNNImputer category_variables = df[['Sex', 'Embarked']] cat_dummies = pd.get_dummies(category_variables, drop_first=True) cat_dummies.head() Sex_male Embarked_Q Embarked_S</pre>
	0 1 1 0 1 0 0 1 2 1 1 0 3 1 0 1 4 0 0 1
In [11]: Out[11]:	<pre>df = df.drop(['Sex', 'Embarked'], axis=1) df = pd.concat([df, cat_dummies], axis=1) df.head()</pre> Survived Pclass Age SibSp Parch Fare Sex_male Embarked_Q Embarked_S 0
In [12]: Out[12]:	<pre>4 1 3 22.0 1 1 12.2875 0 0</pre>
	1 1.0 3.0 47.0 1.0 0.0 7.0000 0.0 1.0 2 0.0 2.0 62.0 0.0 0.0 9.6875 1.0 1.0 0.0 3 0.0 3.0 27.0 0.0 0.0 8.6625 1.0 0.0 1.0 4 1.0 3.0 22.0 1.0 1.0 12.2875 0.0 0.0 1.0 413 0.0 3.0 33.3 0.0 0.0 8.0500 1.0 0.0 1.0
	414 1.0 1.0 39.0 0.0 108.9000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
In [13]: Out[13]:	<pre>df.isna().any() Survived False Pclass False Age False SibSp False Parch False Fare False Sex_male False Embarked_Q False</pre>
In [14]: Out[14]:	Embarked_S False dtype: bool df.isna().sum() Survived 0 Pclass 0 Age 0 SibSp 0 Parch 0
In [16]:	<pre>Fare 0 Sex_male 0 Embarked_Q 0 Embarked_S 0 dtype: int64 plt.figure(figsize=(15,15)) sns.boxplot(x=df["Age"] ,y=df["Survived"]) plt.tight_layout()</pre>
	plt.grid() 1
	0.6
	0.2
In [17]: In [18]:	0.18到的知2.0.6.6.0.8.9回加 [[1] 日本日本日 [1] 日本日 [1
To [40]	Survived Pclass0.75 -0.50 -0.25 -0.00 -0.25 -0.50 -0.50 -0.25 -0.50 -0.75 -0.50 -0.75 -0.50 -0.75 -0.50 -0.75 -0.50 -0.75 -0.50 -0.75 -0.50 -0.75 -0.50 -0.75 -0.50 -0.75 -0.50
In [19]: In [20]:	sns.distplot(x=[skd]) plt.grid(); 0200 0175 0150 0100 0105 0100 0005 0005 00