(303, 14)

df.target

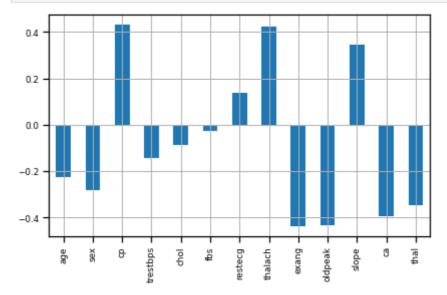
Out[54]:

In [55]:

```
Out[55]:
                 1
                 1
                 1
                 1
          298
                 0
          299
          300
                 0
          301
                 0
          302
          Name: target, Length: 303, dtype: int64
 In [ ]:
In [56]:
          df.head(2)
Out[56]:
             age sex cp trestbps chol fbs restecg thalach exang oldpeak slope ca
                                                                                    thal target
                       3
                                   233
                                                       150
                                                                       2.3
                                                                                  0
              63
                              145
                                         1
                                                 0
                                                                0
                                                                               0
                                                                                              1
                                   250
                                         0
                                                                       3.5
              37
                              130
                                                       187
                                                                               0
 In [ ]:
In [57]:
          df.isnull().sum().sum()
Out[57]:
          x=df.drop(['target'],axis=1)
In [58]:
          y=df['target']
          from sklearn.model_selection import train_test_split
In [59]:
          x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.3,random_state=1)
In [60]:
          from sklearn.ensemble import RandomForestClassifier
In [61]:
In [62]:
          rfc1=RandomForestClassifier(n_estimators=200,max_depth=2)
          rfc1.fit(x_train,y_train)
In [63]:
          RandomForestClassifier(max_depth=2, n_estimators=200)
Out[63]:
          y_predict=rfc1.predict(x_test)
In [64]:
In [65]:
          from sklearn.metrics import confusion_matrix,accuracy_score
In [66]:
          confusion_matrix(y_test,y_predict)
          array([[29, 12],
Out[66]:
                 [10, 40]], dtype=int64)
In [67]:
          accuracy_score(y_test,y_predict)
          0.7582417582417582
Out[67]:
```

1

```
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_context('notebook',font_scale=0.8)
df.drop('target',axis=1).corrwith(df.target).plot(kind='bar',grid=True)
title="correction with target feature"
plt.tight_layout()
```



In [ ]: