In [110]:

```
import plotly
from plotly.offline import download_plotlyjs, init_notebook_mode, iplot
init_notebook_mode() # run at the start of every notebook
```

In [111]:

```
from plotly.offline import plot
from plotly.graph_objs import *
from plotly.tools import FigureFactory as FF
import plotly.plotly as py
import numpy as np
```

In [107]:

```
def plot_pie(labels,values,title):
    fig = {
        'data': [{'labels': labels,
                  'values': values,
                  'type': 'pie'}],
        'layout': {'title': title}
    }
    return iplot(fig,show_link=False)
def plot_barchart(labels,values,titles,maintitle):
    trace1 = Bar(
        x=labels,
        y=values[0],
        name=titles[0]
    )
    trace2 = Bar(
        x=labels,
        y=values[1],
        name=titles[1]
    )
    data = [trace1, trace2]
    layout = Layout(
        title = maintitle,
        barmode='group'
    )
    fig = Figure(data=data, layout=layout)
    return py.iplot(fig,show_link=False)

def plot_scatter(labels,values,titles,maintitle):
    trace0 = Scatter(
        x=labels,
        y=values[0],
        name=titles[0],
        mode='markers',
        marker=dict(
            size=np.array(values[0])/2000,
        )
    )
    trace1 = Scatter(
        x=labels,
        y=values[1],
        name=titles[1],
        mode='markers',
        marker=dict(
            size=np.array(values[1])/2000,
        )
    )
    data = [trace0,trace1]
    layout = Layout(
        title = maintitle,
        showlegend=True,
        height=600,
        width=700,
    )
    fig = Figure(data=data, layout=layout)
    return py.iplot(fig,filename="Scatter")
```

In [4]:

```
import pandas as pd
```

In [5]:

```
data = pd.read_csv('data.csv',encoding='utf-8')
data = data.drop(['Unnamed: 0'],axis=1)
```

In [6]:

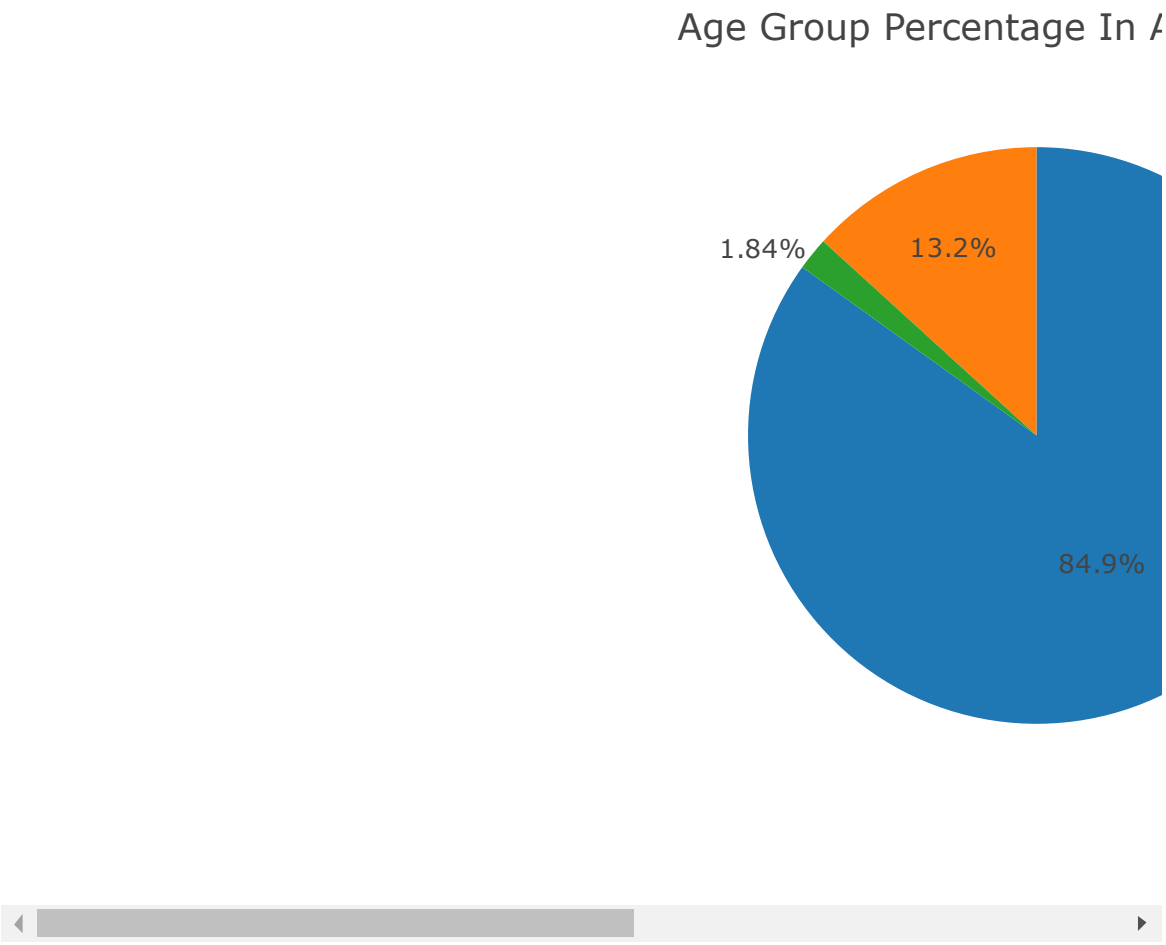
```
idata=data[['Reviewer Username','Gender','Age Group','Product Type','Price(Dolla
r)']]
import plotly.plotly as py
import numpy as np
from plotly.tools import FigureFactory as FF
index=np.random.choice(idata.shape[0], 10)
table = FF.create_table(idata.ix[index])
py.iplot(table,show_link=False)
```

Out[6]:

Reviewer Username	Gender	Age Group
Amazon Customer	female	17-33
Stephanie Sullivan	male	33-90
Kawika	female	17-33
Grace Gallagher	male	17-33
An. Ka.	male	33-90
Mike	male	33-90
Protosapien	female	17-33
Bassocantor	female	33-90
Anthony L.	male	17-33
Courtney	female	17-33

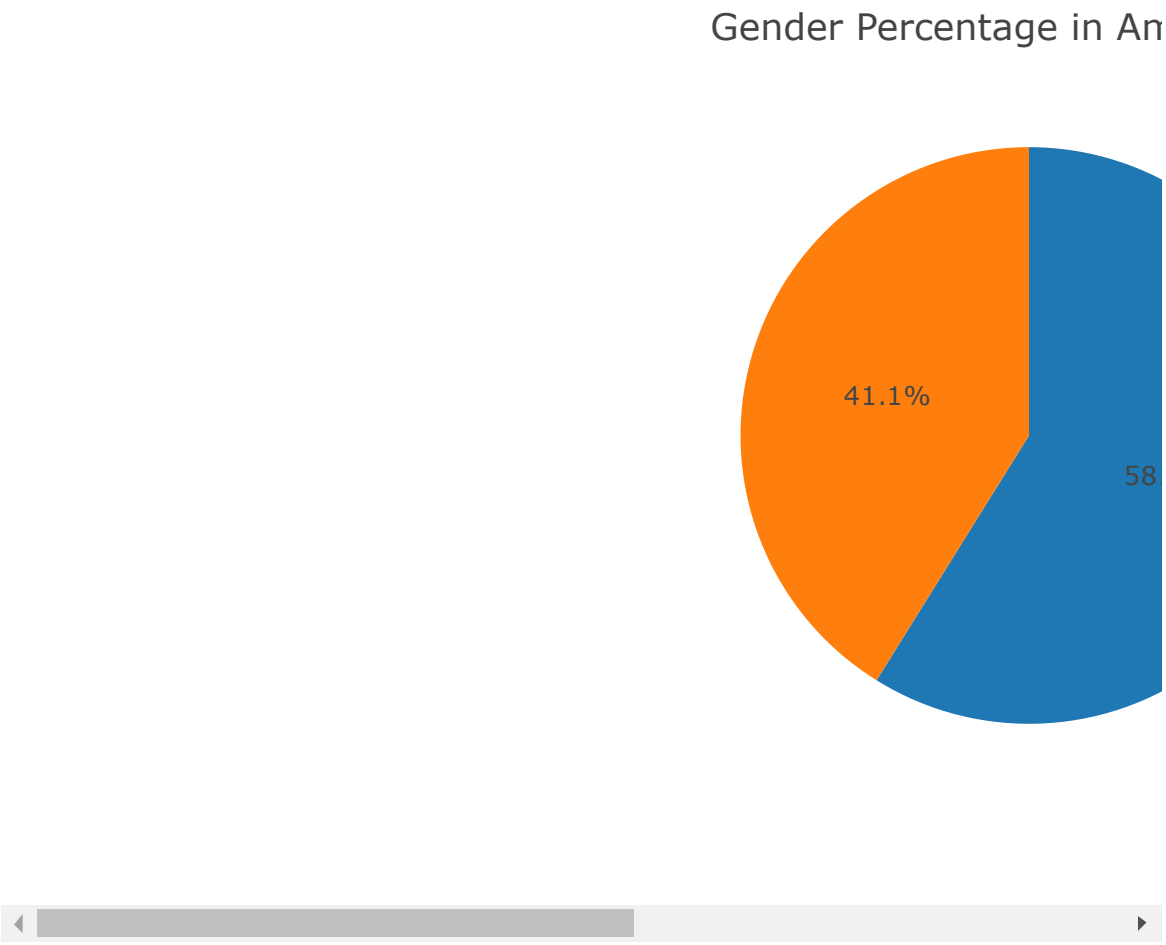
In [7]:

```
ag=data['Age Group'].value_counts()
plot_pie(ag.keys().tolist(),ag.values.tolist(),'Age Group Percentage In Amazon Rev
iews')
```



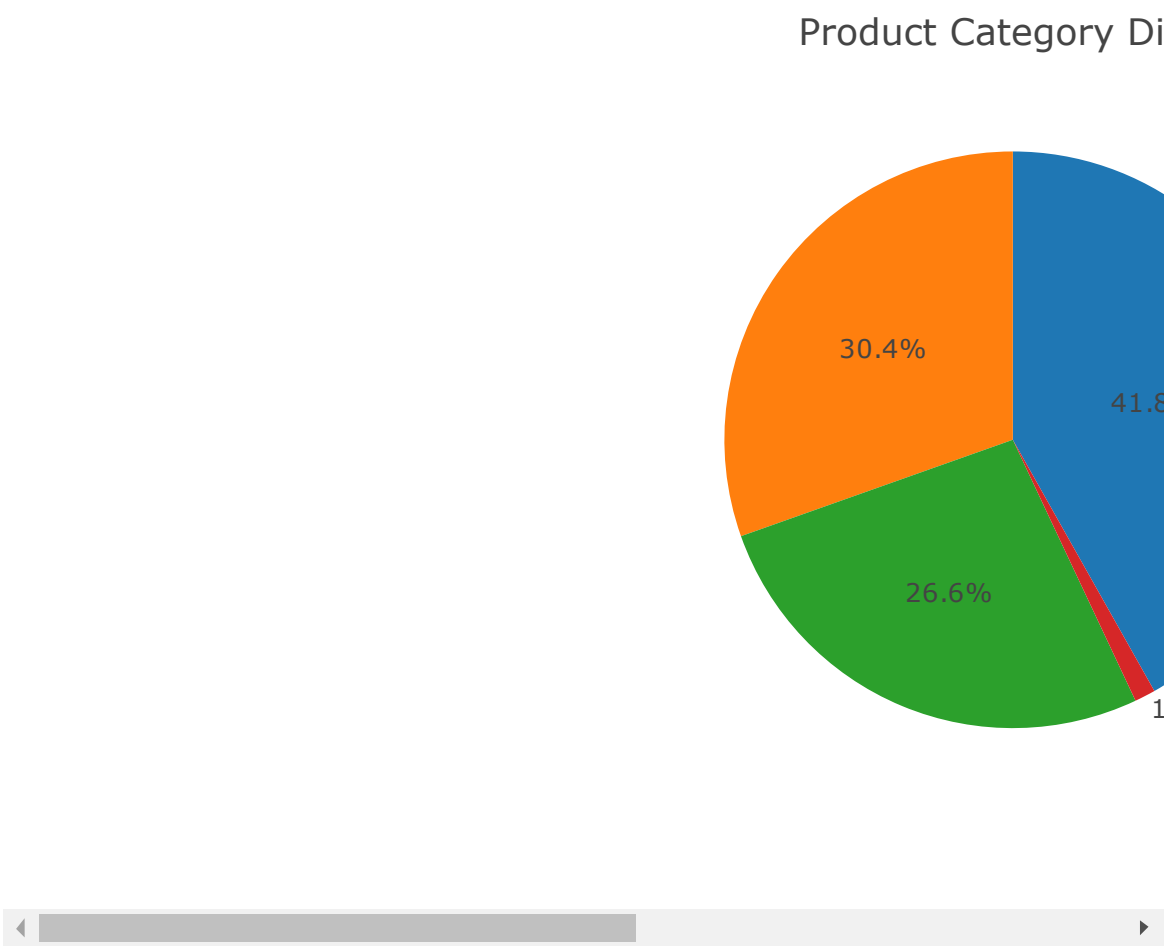
In [8]:

```
g = data['Gender'].value_counts()
plot_pie(g.keys().tolist(),g.values.tolist(),'Gender Percentage in Amazon Review
s')
```



In [9]:

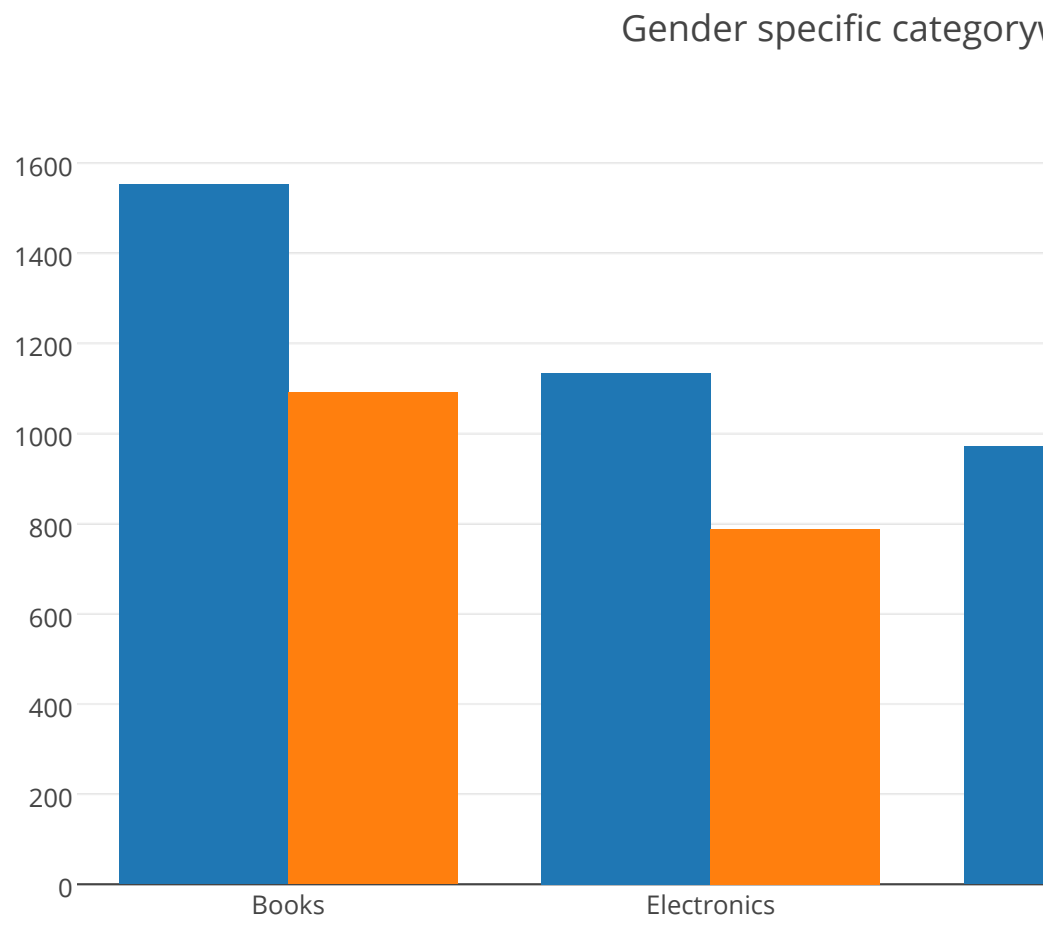
```
g = idata['Product Type'].value_counts()
g['others']= g['$0']
g= g.drop('$0')
plot_pie(g.keys().tolist(),g.values.tolist(),'Product Category Distribution')
```



In [89]:

```
females  = idata.where(idata['Gender']=='female').dropna()
males = idata.where(idata['Gender']=='male').dropna()
labels = ['Books','Electronics','Desktop','Others']
values =[]
values.append(males['Product Type'].value_counts().values)
values.append(females['Product Type'].value_counts().values)
titles = ['Male','Female']
plot_barchart(labels,values,titles,'Gender specific categorywise Purchases')
```

Out[89]:



In [ ]:

```

```