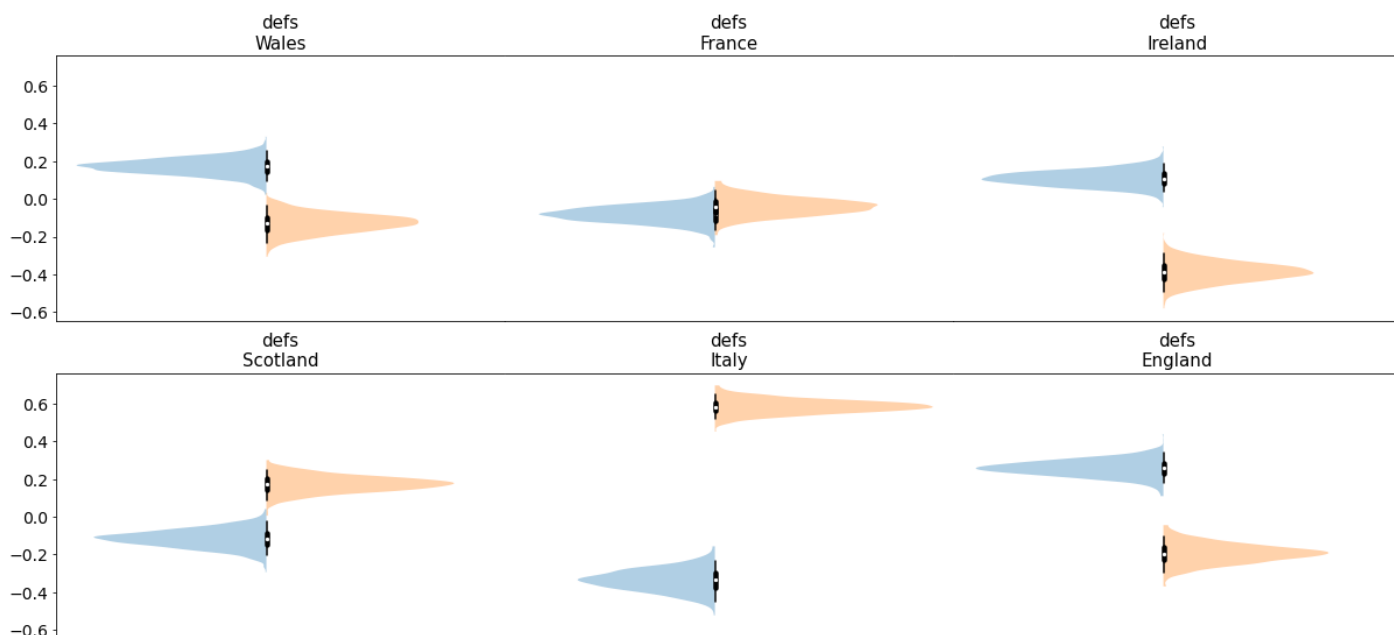


Continuous split violins using matplotlib backend

In [5]:

```
import arviz as az

data = az.load_arviz_data("rugby")
axs = az.plot_violin(data, var_names = ['atts'], side="left", show=False)
az.plot_violin(data, var_names=['defs'], side="right", ax=axs, show=True)
```



```
Out[5]: array([<AxesSubplot:title={'center': 'defs\nWales'}>,
 <AxesSubplot:title={'center': 'defs\nFrance'}>,
 <AxesSubplot:title={'center': 'defs\nIreland'}>],
 [<AxesSubplot:title={'center': 'defs\nScotland'}>,
 <AxesSubplot:title={'center': 'defs\nItaly'}>,
 <AxesSubplot:title={'center': 'defs\nEngland'}>]], dtype=object)
```

Discrete split violins using matplotlib backend

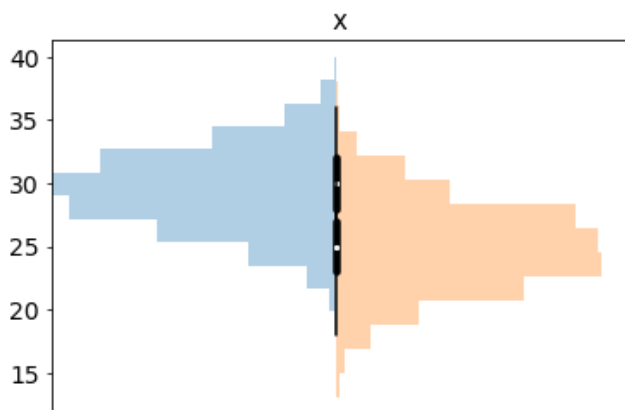
In [14]:

```
import arviz as az
from numpy.random import binomial

data1 = binomial(50,0.5,2000)
data2 = binomial(50,0.6,2000)
#ax = az.plot_violin(data1, side='left')

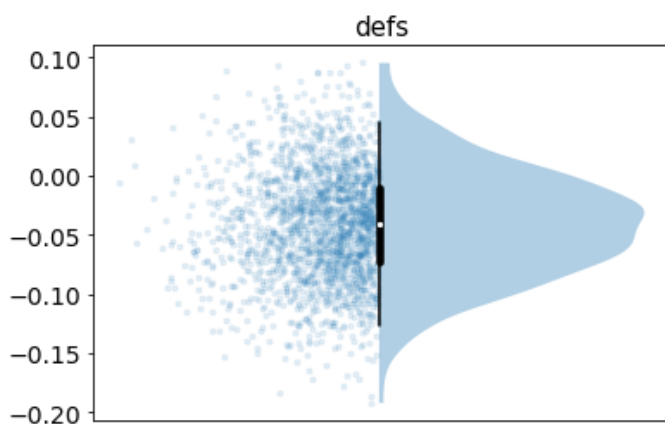
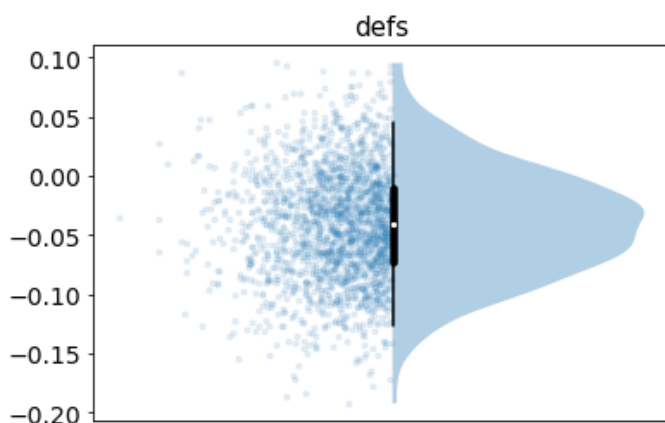
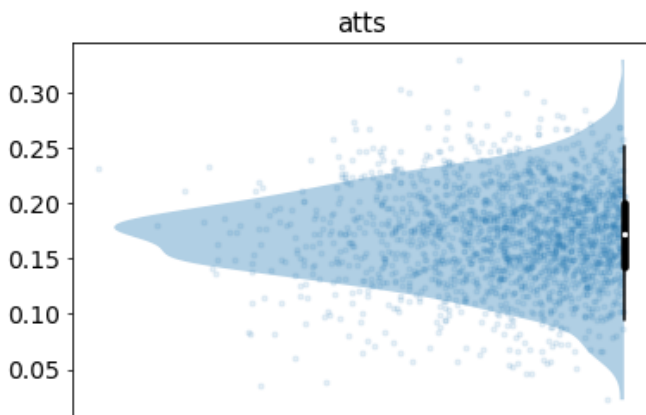
ax = az.plot_violin(data2, side='left')
az.plot_violin(data1, ax=ax, side='right')
```

```
Out[14]: array([<AxesSubplot:title={'center': 'x'}>], dtype=object)
```



Examples with rugs turned on

```
In [13]: import arviz as az
data = az.load_arviz_data("rugby")
az.plot_violin(data.posterior['atts'][:, :, 0], side="left", show=False, rug=True)
az.plot_violin(data.posterior['defs'][:, :, 1], side="right", show=True, rug=True)
az.plot_violin(data.posterior['defs'][:, :, 1], show=True, rug=True) # Defaults to current behavior
# side="both" and rug=True also defaults to current behavior, following the current logic
```



Out[13]: array([<AxesSubplot:title={'center':'defs'}>], dtype=object)

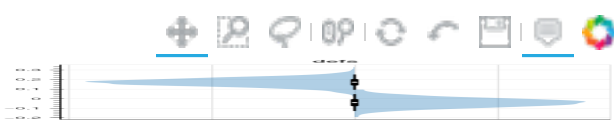
Continous split violin using bokeh

```
In [3]: import arviz as az
from bokeh.io import output_notebook
from bokeh.plotting import show, figure, gridplot
output_notebook()
a = figure()
#print(az.list_datasets())

data = az.load_arviz_data("rugby")

p1 = az.plot_violin(data.posterior['atts'][:, :, 0], side="left", backend="bokeh", show=False)
p2 = az.plot_violin(data.posterior['defs'][:, :, 1], side="right", ax=p1[0], backend="bokeh", show=True)
```

 BokehJS 2.4.2 successfully loaded.



Discrete split violin using bokeh

In [7]:

```
import arviz as az
from bokeh.io import output_notebook
from bokeh.plotting import show, figure, gridplot
output_notebook()
a = figure()
#print(az.list_datasets())
from numpy.random import binomial
data1 = binomial(50,0.5,2000)
data2 = binomial(50,0.6,2000)
p1 = az.plot_violin(data1, side="left", backend="bokeh", show=False)
p2 = az.plot_violin(data2, side="right", ax=p1[0], backend="bokeh", show=True)
```

 BokehJS 2.4.2 successfully loaded.

