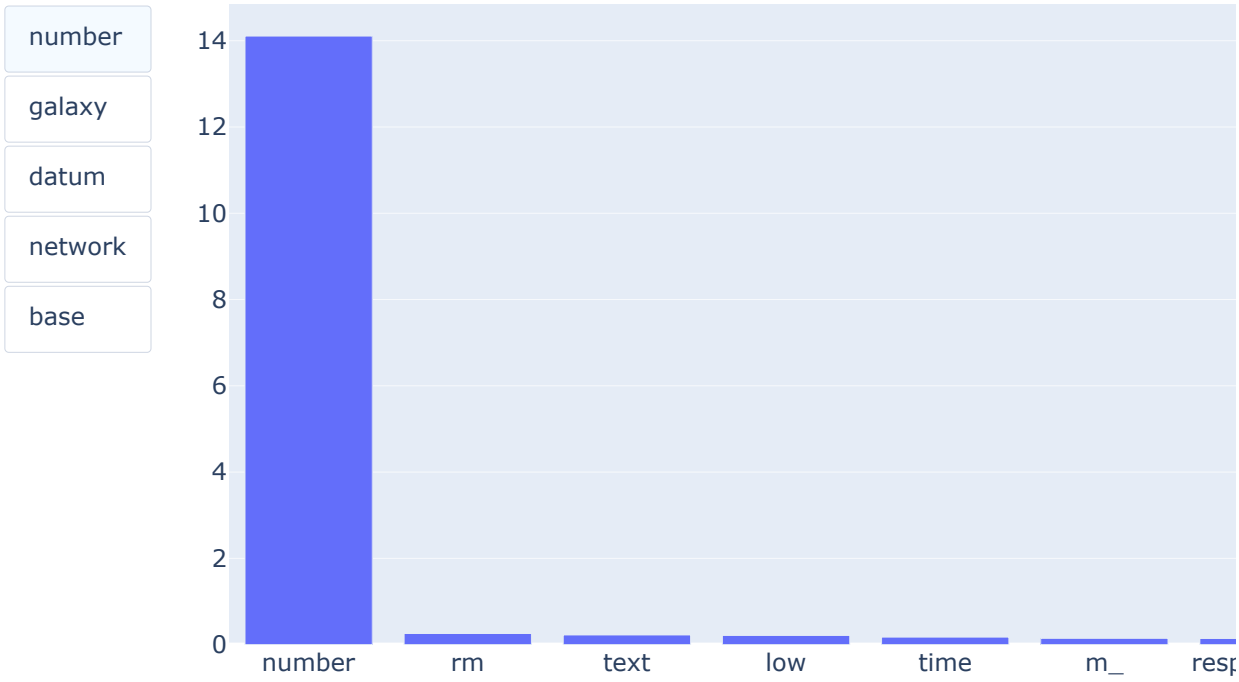
In [37]:
```
import plotly.graph_objects as go
from plotly.subplots import make_subplots

def plot_top_words(model, feature_names, n_top_words):
    top_features = pd.DataFrame()
    weights = pd.DataFrame()
    for topic_idx, topic in enumerate(model.components_):
        top_features_ind = topic.argsort()[::-1][:n_top_words]
        top_features[topic_idx] = [feature_names[i] for i in top_features_i
        weights[topic_idx] = topic[top_features_ind]

    fig = make_subplots(
        rows=1, cols=1)

    fig.add_trace(
        go.Bar(x=top_features[0],
               y=weights[0],
               name="bar",
               visible=True), 1,1)
    fig.add_trace(
        go.Bar(x=top_features[1],
               y=weights[1],
               name="bar",
               visible=False), 1,1)
    fig.add_trace(
        go.Bar(x=top_features[2],
               y=weights[2],
               name="bar",
               visible=False), 1,1)
    fig.add_trace(
        go.Bar(x=top_features[3],
               y=weights[3],
               name="bar",
               visible=False), 1,1)
    fig.add_trace(
        go.Bar(x=top_features[4],
               y=weights[4],
               name="bar",
               visible=False), 1,1)
    button1 = dict(method='update',
                   args=[{"visible": [True, False, False, False, False] }],
                   label=top_features[0][0] )
    button2 = dict(method='update',
                   args=[{"visible": [False, True, False, False, False] }],
                   label=top_features[1][0] )
    button3 = dict(method='update',
                   args=[{"visible": [False, False, True, False, False] }],
                   label=top_features[2][0] )
    button4 = dict(method='update',
                   args=[{"visible": [False, False, False, True, False] }],
                   label=top_features[3][0] )
    button5 = dict(method='update',
                   args=[{"visible": [False, False, False, False, True] }],
                   label=top_features[4][0] )
    fig.update_layout(width=1000, height=500,
                      updatemenus =[dict(type='buttons',
```

```
                                                    buttons=[button1, button2, button3,
    return(fig)
```

In [38]:
```
fig = plot_top_words2(nmf, idx2word, 10)
fig
```



In [ ]:
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