

PCA plot showing the first two principal components (PC1 and PC2) of the data. The x-axis is labeled 'PC2: 19% variance' and ranges from 10 to -20. The y-axis ranges from -10 to 10. The data points are colored and shaped to represent four different groups:

- Black filled circles:** Located in the upper left quadrant (high PC1, low PC2).
- White open circles:** Located in the upper right quadrant (low PC1, high PC2).
- Red filled circles:** Located in the lower right quadrant (low PC1, low PC2).
- Blue filled circles:** Located in the lower left quadrant (high PC1, low PC2).

The plot shows a clear separation between the four groups along both PC1 and PC2, indicating that the first two principal components capture most of the variance in the data.

