""*Polarization and inequality are mutually reinforcing — rising income inequality drives political polarization, which in turn blocks the redistributive policies that might reduce inequality.*" — *Nolan McCarty, Polarization: What Everyone Needs to Know, 2019*

US Senate Extremism

110 - 119 Congresses
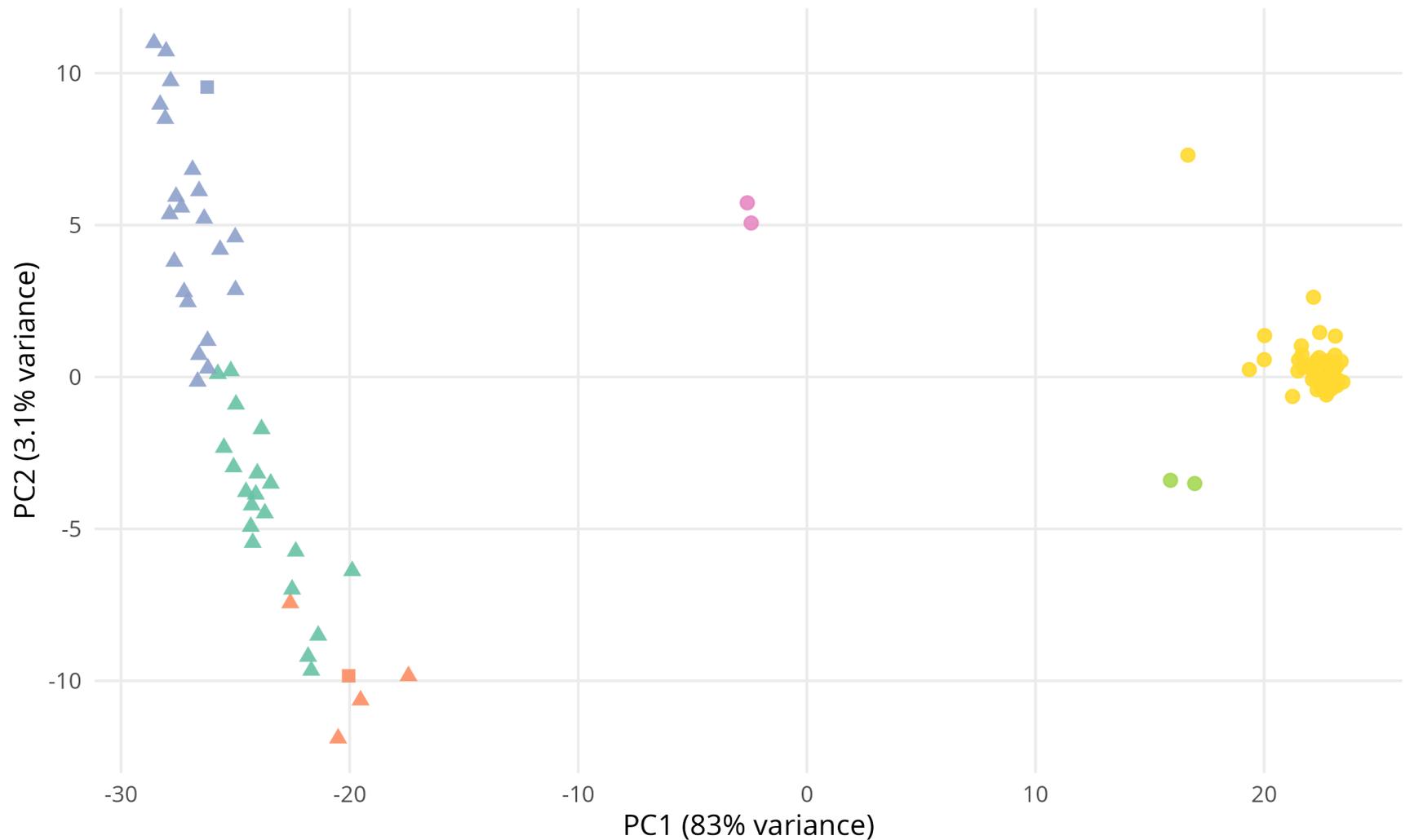## K-Means Cluster of Individual Senators Voting Records

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March 5, 2026

119 th Senate k-means on roll-call votes
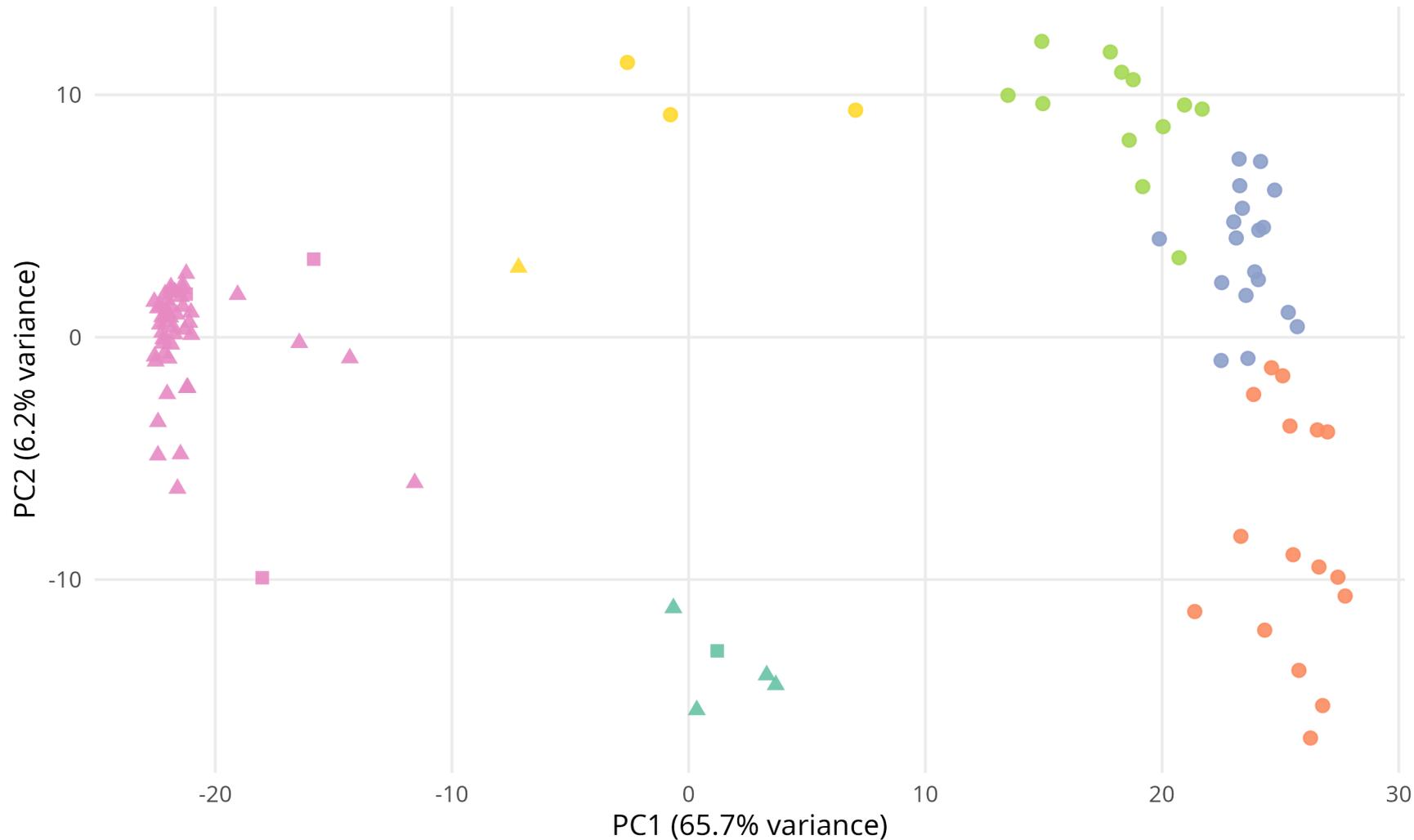
102 legislators × 659 votes | k = 6 clusters

PC2 (3.1% variance)

PC1 (83% variance)

Voting Cluster   1   3   5

Party   ▲ Democrat   ■ Other   ● Republican

2   4   6

118 th Senate k-means on roll-call votes

105 legislators × 691 votes | k = 6 clusters

PC2 (6.2% variance)

PC1 (65.7% variance)

Voting Cluster

1 2 3 4 5 6

Party ▲ Democrat ■ Other ● Republican

117 th Senate k-means on roll-call votes

104 legislators × 949 votes | k = 6 clusters
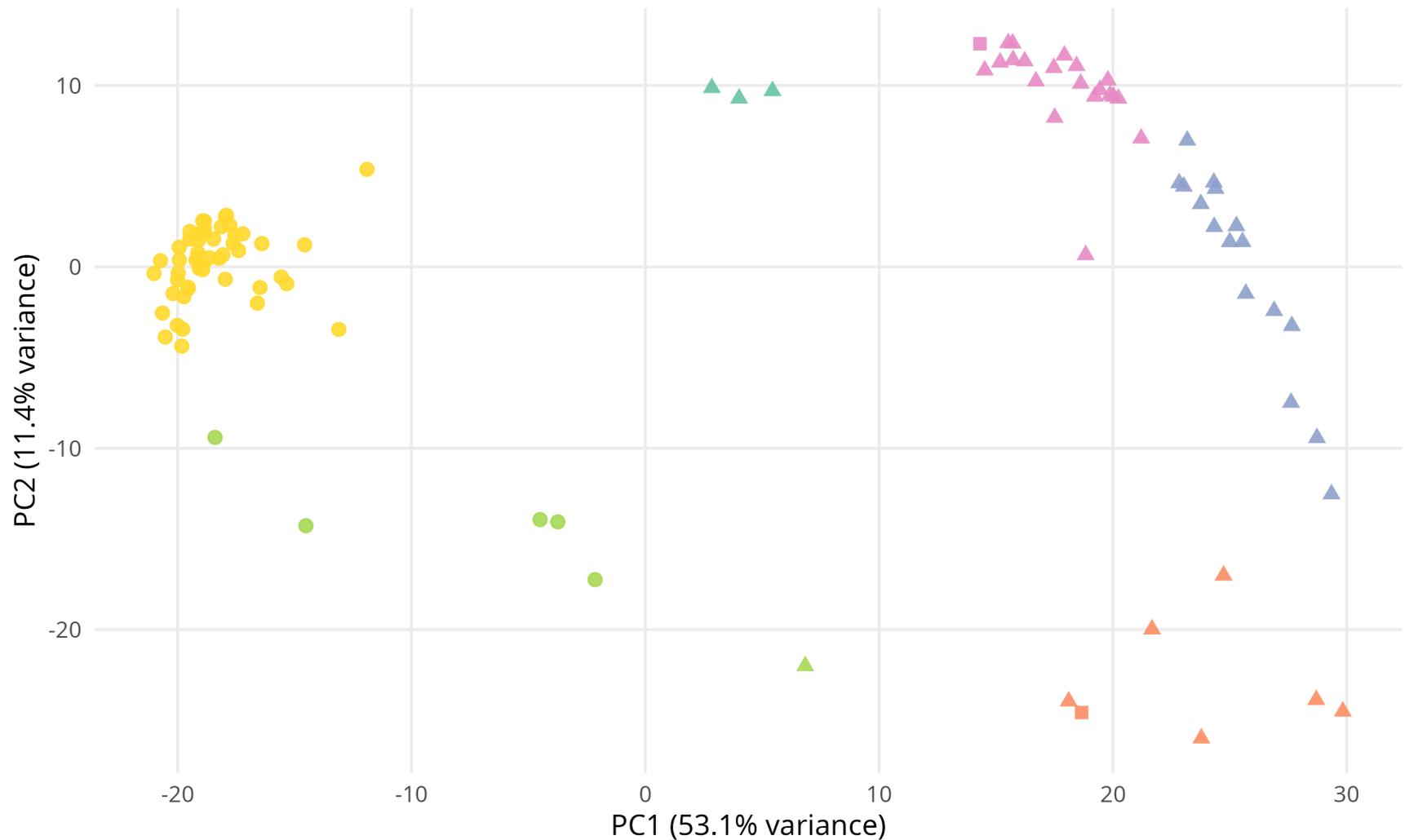
PC2 (5.7% variance)

PC1 (67.4% variance)
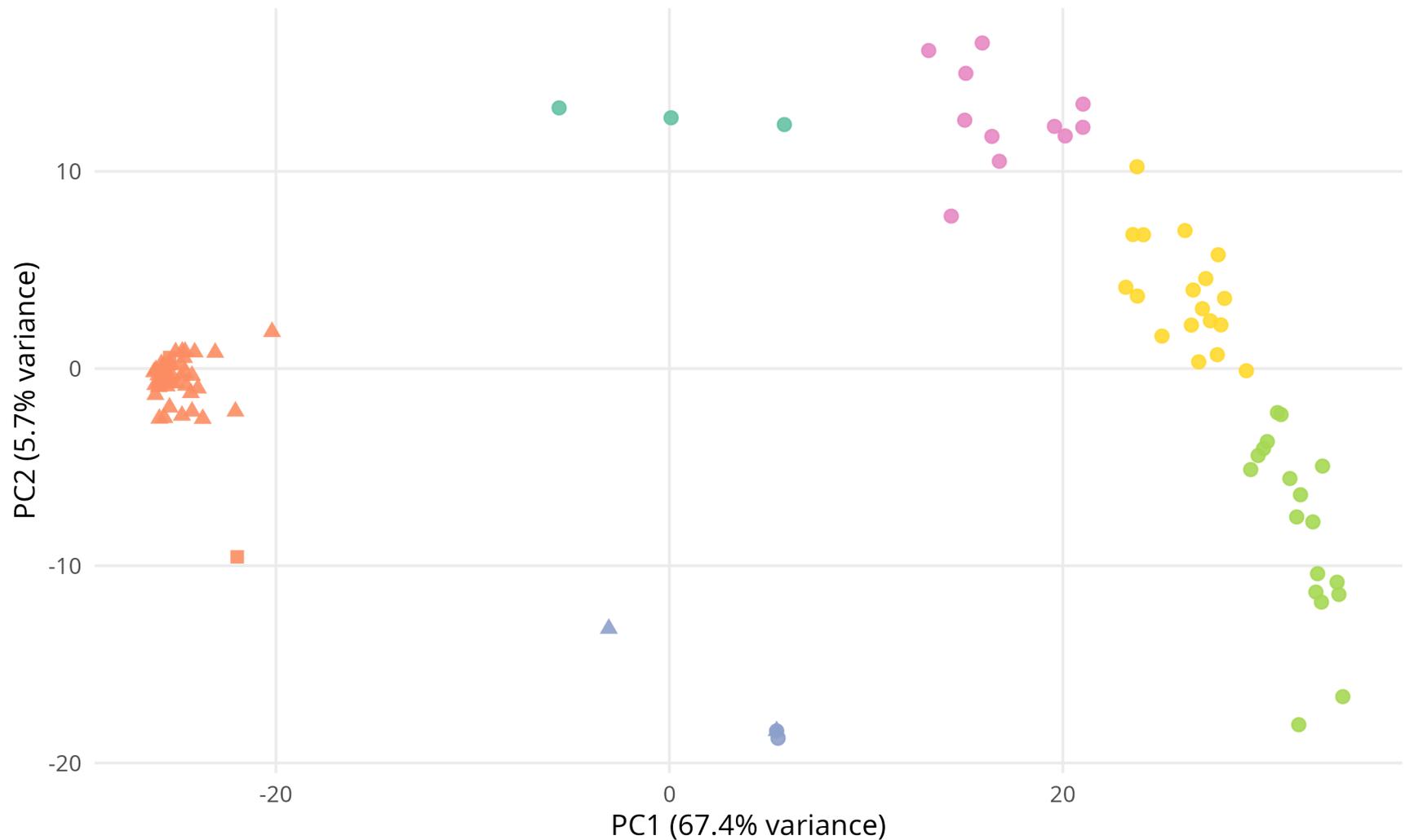
Voting Cluster 1 3 5 Party ▲ Democrat ■ Other ● Republican
2 4 6

116 th Senate k-means on roll-call votes

103 legislators × 720 votes | k = 6 clusters

PC2 (11.4% variance)

PC1 (53.1% variance)

Voting Cluster

● 1 ● 3 ● 5

● 2 ● 4 ● 6

Party ▲ Democrat ■ Other ● Republican

115 th Senate k-means on roll-call votes

106 legislators × 599 votes | k = 6 clusters

PC2 (9.7% variance)

PC1 (53% variance)

Voting Cluster ● 1 ● 3 ● 5 Party ▲ Democrat ■ Other ● Republican
                ● 2 ● 4 ● 6
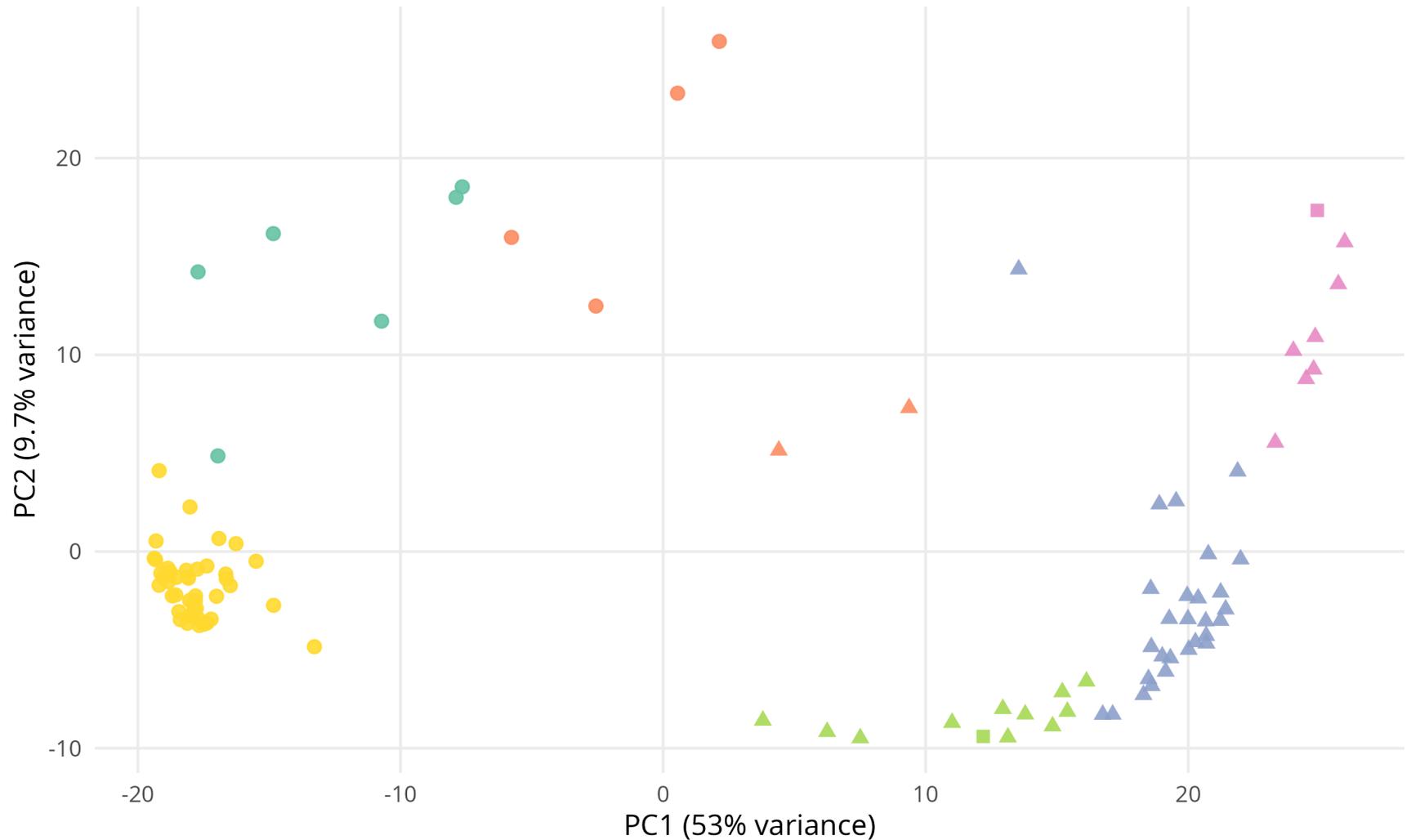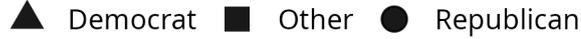
114 th Senate k-means on roll-call votes
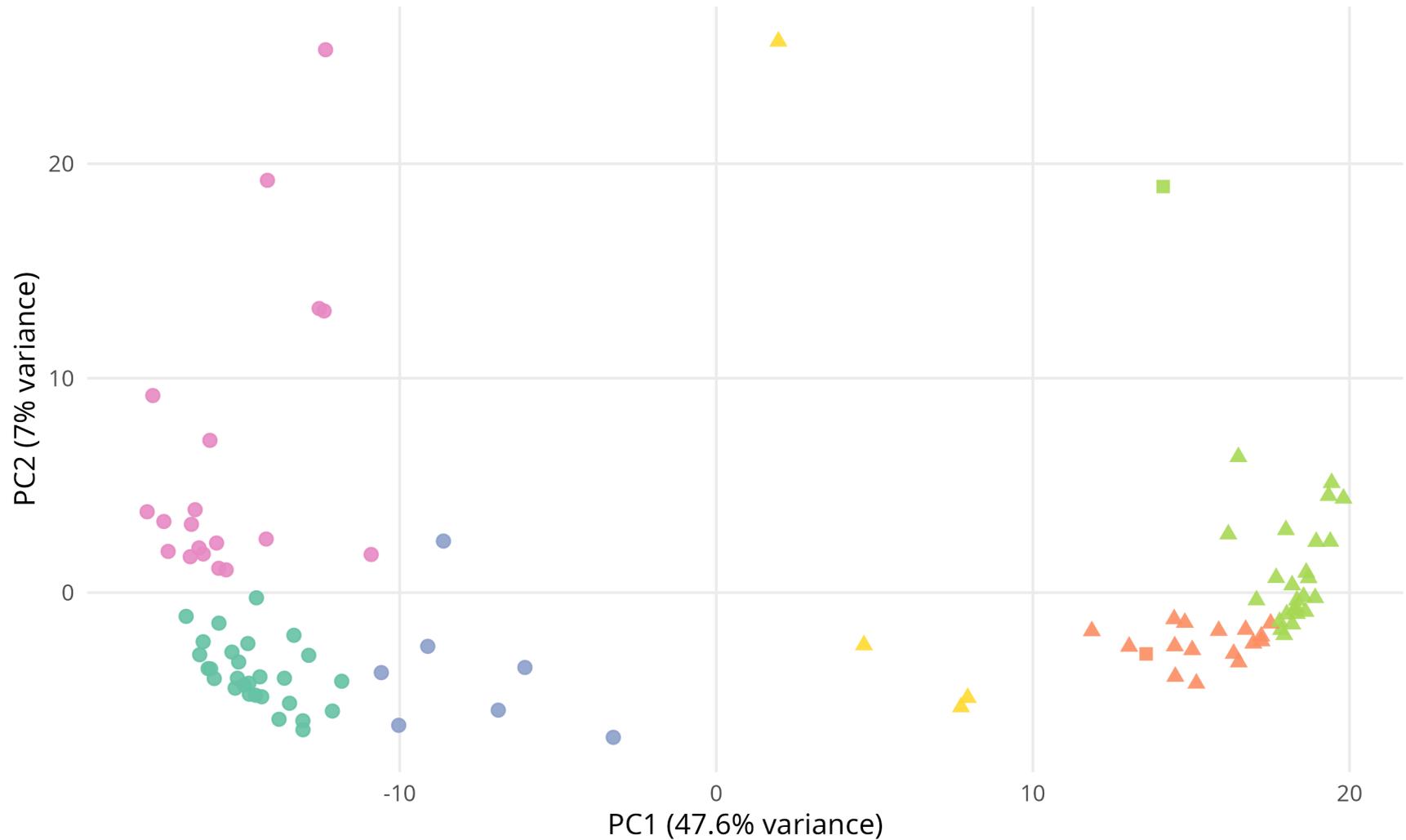
101 legislators × 502 votes | k = 6 clusters

PC2 (7% variance)

PC1 (47.6% variance)

Voting Cluster: 1, 2, 3, 4, 5, 6

Party: ▲ Democrat ■ Other ● Republican

113 th Senate k-means on roll-call votes

106 legislators × 657 votes | k = 6 clusters
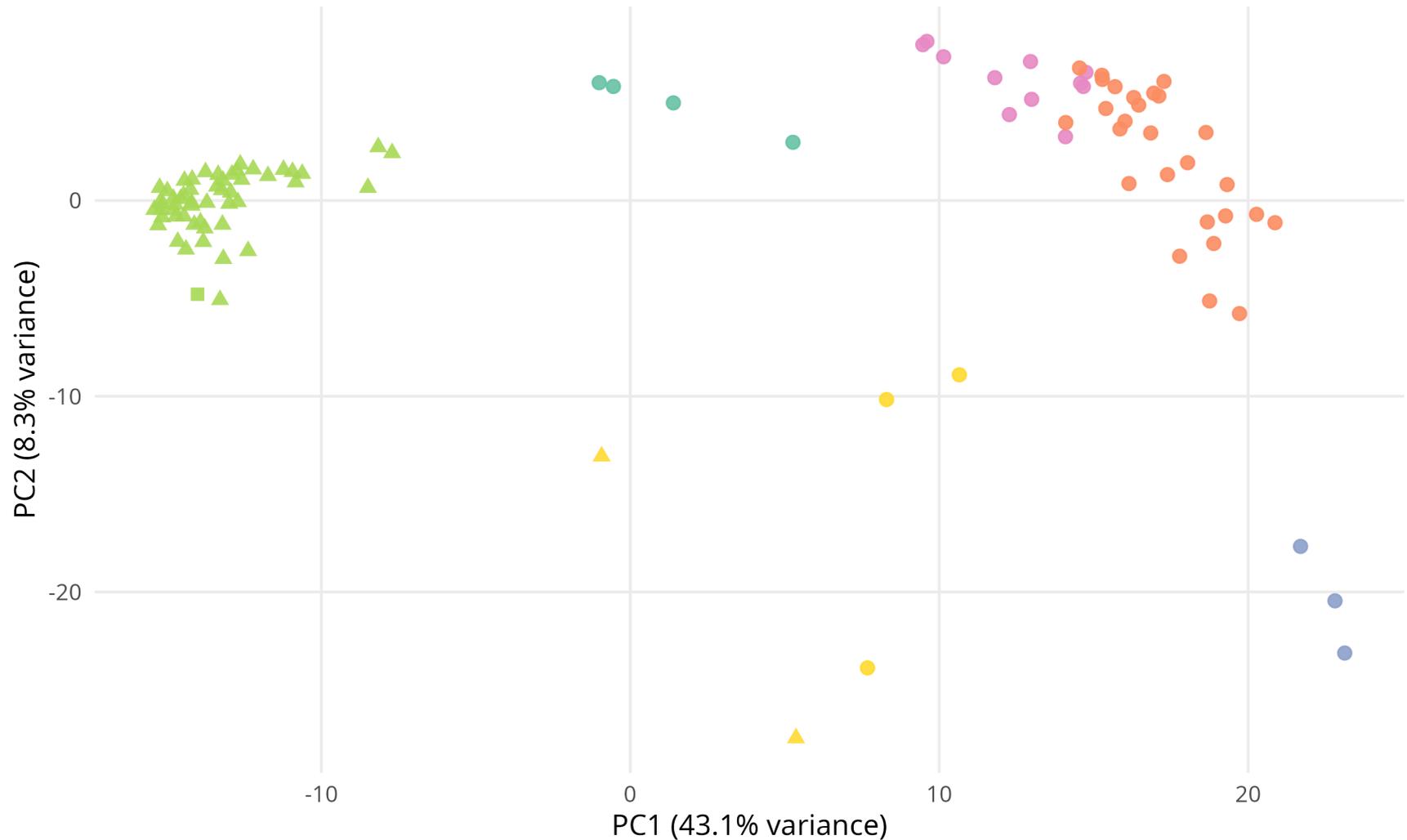
PC2 (8.5% variance)

PC1 (55.7% variance)

Voting Cluster

1   3   5

2   4   6
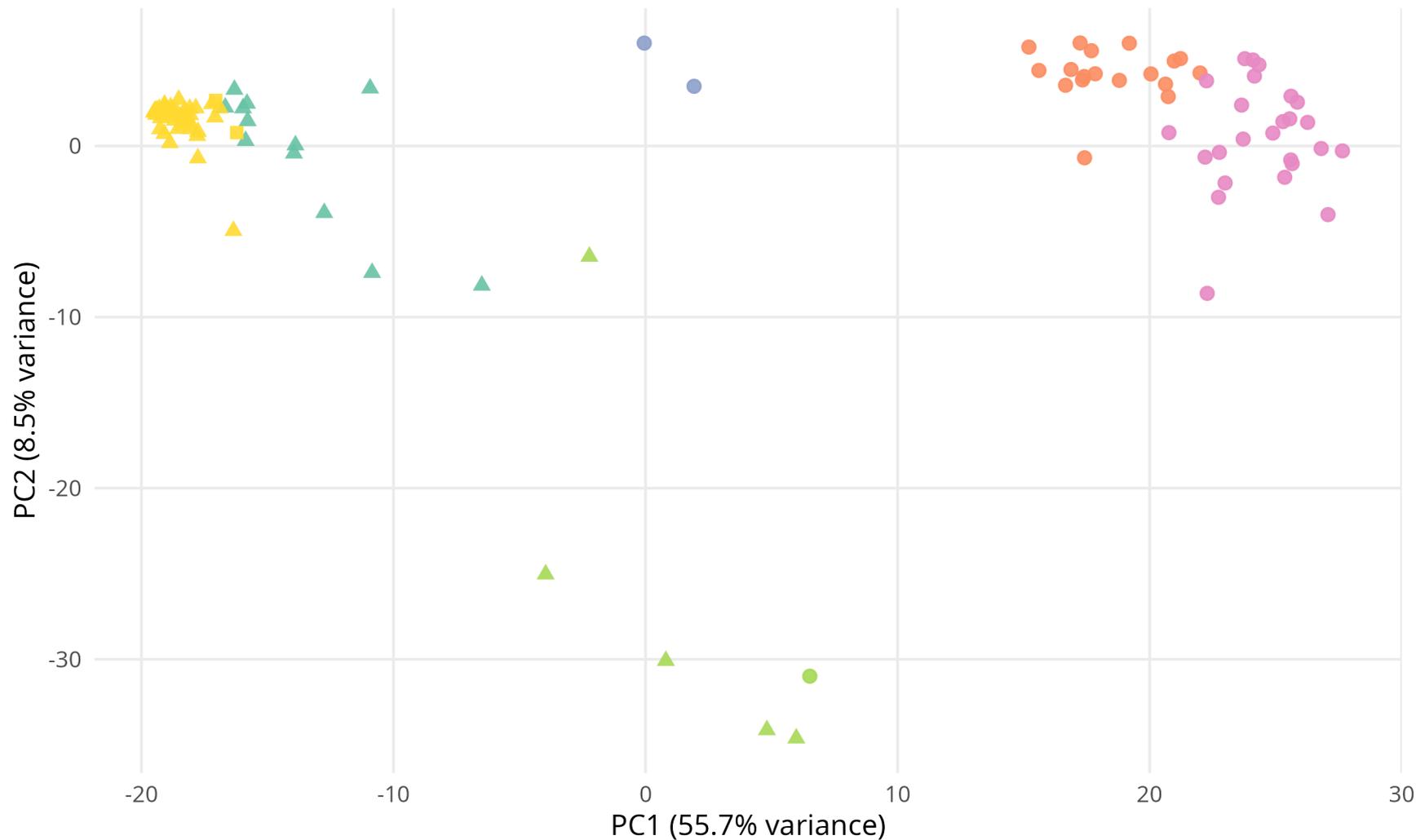
Party   ▲ Democrat   ■ Other   ● Republican

112 th Senate k-means on roll-call votes

103 legislators × 486 votes | k = 6 clusters

PC2 (8.3% variance)

PC1 (43.1% variance)

Voting Cluster   1   3   5   Party   ▲ Democrat   ■ Other   ● Republican
2   4   6

111 th Senate k-means on roll-call votes

112 legislators × 696 votes | k = 6 clusters

PC2 (8.6% variance) vs PC1 (56.8% variance)

Voting Cluster: 1, 2, 3, 4, 5, 6

Party: ▲ Democrat ■ Other ● Republican

110 th Senate k-means on roll-call votes
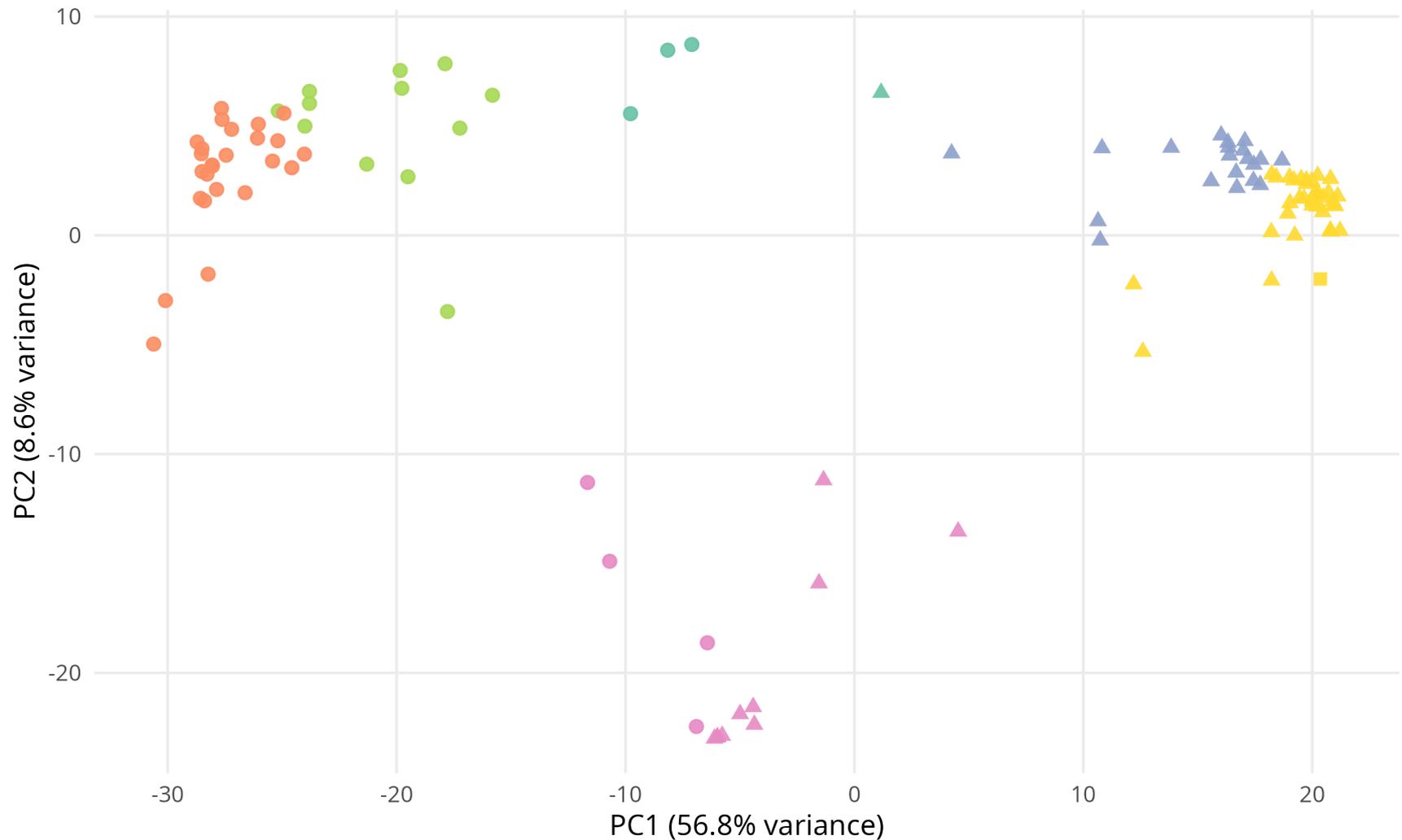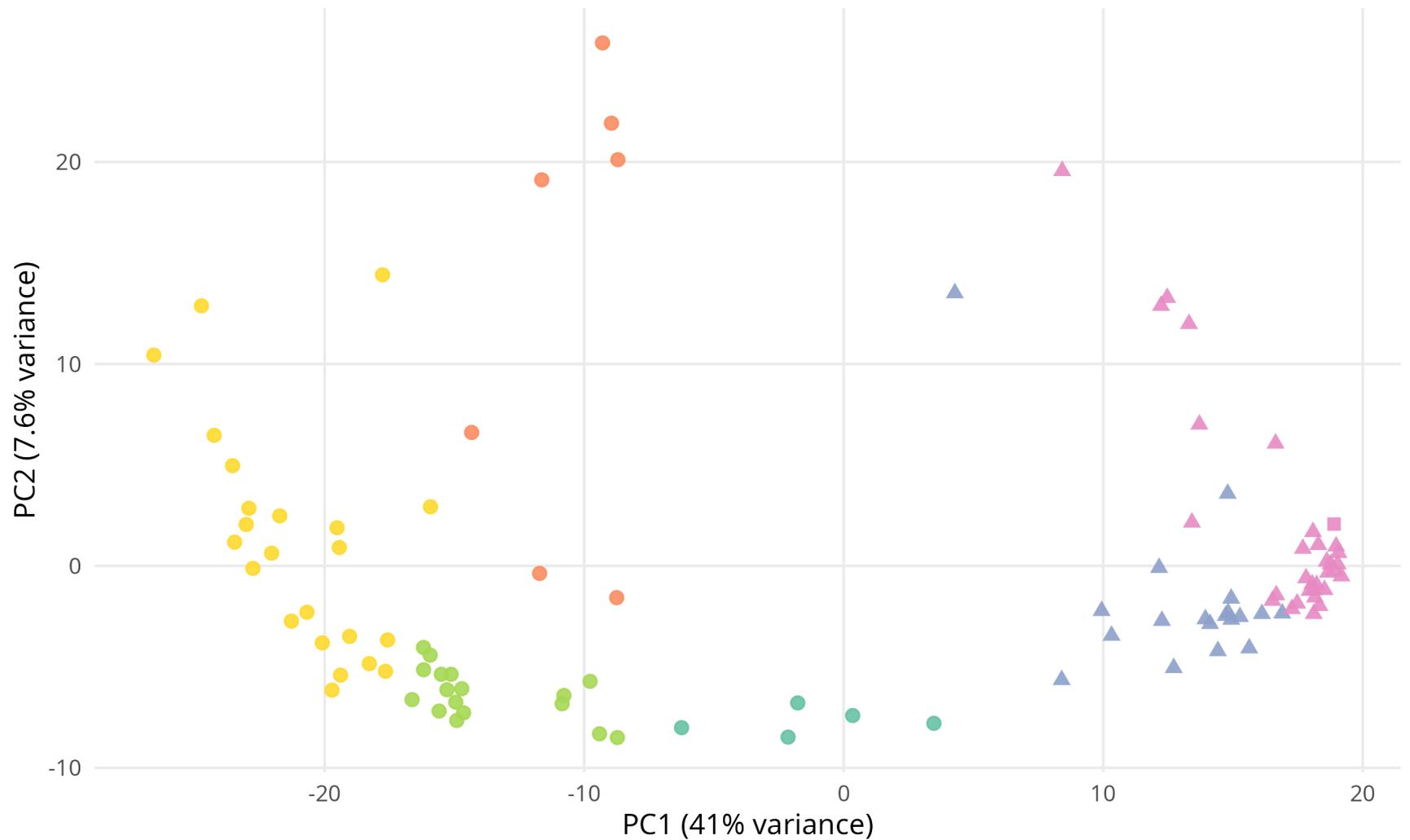
103 legislators × 657 votes | k = 6 clusters

PC2 (7.6% variance)

PC1 (41% variance)

Voting Cluster ● 1 ● 3 ● 5   Party ▲ Democrat ■ Other ● Republican
                ● 2 ● 4 ● 6