General Gap Penalties

AAAGAATTCA
$$VS.$$
 AAAGAATTCA $AAAGAATTCA$ $AAA---TCA$

These have the same score, but the second one is often more plausible.

A single insertion of "GAAT" into the first string could change it into the second.

- Now, the cost of a run of k gaps is $gap \times k$
- It might be more realistic to support general gap penalty, so that the score of a run of k gaps is $gap(k) < gap \times k$.
- Then, the optimization will prefer to group gaps together.