

$\{ \text{fat}, 4 \} \{ \text{far}, 6 \}$



ParDo(ExpandPrefixes)

$\{ \text{f}, 4 \} \{ \text{fa}, 4 \} \{ \text{fat}, 4 \} \{ \text{f}, 6 \} \{ \text{fa}, 6 \} \{ \text{far}, 6 \}$



GroupByKey

$\{ \text{f}, [4, 6] \} \{ \text{fa}, [4, 6] \} \{ \text{fat}, [4] \} \{ \text{far}, [6] \}$



ParDo(FilterSingletons)

$\{ \text{f}, [4, 6] \} \{ \text{fa}, [4, 6] \}$



ParDo(SumValues)

$\{ \text{f}, 10 \} \{ \text{fa}, 10 \}$