

`reduceByKeyAndWindow()`

# reduceByKeyAndWindow

**reduceByKeyAndWindow** (*func, nvFunc, windowDuration, slideDuration=None, numPartitions=None, filterFunc=None*)

- Return a new DStream by applying incremental reduceByKey over a sliding window
- The reduced value of over a new window is calculated using the old window's reduce value

## Example-

- reduce the new values that entered the window (e.g., adding new counts)<<Click>>
- “inverse reduce” the old values that left the window (e.g., subtracting old counts)

# reduceByKeyAndWindow

## Parameters:

- **funcfunction**: associative and commutative reduce function
- **invFuncfunction**: inverse function of reduceFunc
- **windowDuration**: width of the window; must be a multiple of this DStream's batching interval
- **slideDurationint(optional)**: sliding interval of the window
- **numPartitionsint(optional)**: number of partitions of each RDD in the new DStream
- **filterFuncfunction(optional)**: function to filter expired key-value pairs



Thank You