Time, Duration & Scheduled



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Operators

- auditTime
- sampleTime
- observeOn
- subscribeOn
- debounce
- debounceTime

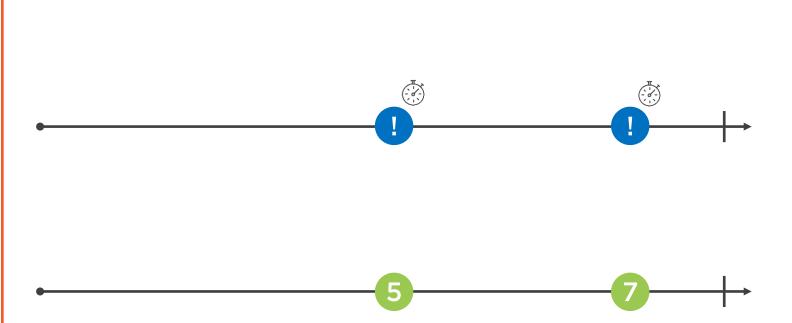
- delay
- delayWhen
- throttleTime
- timeInterval
- timestamp



auditTime



Ignore values for specified time

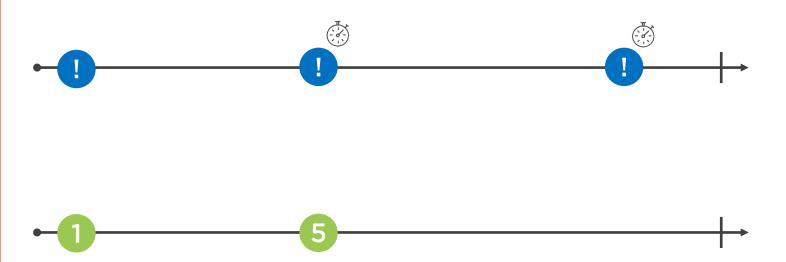




sampleTime



Emit latest when signaled





Use different scheduler

Huh?

Conceptual model

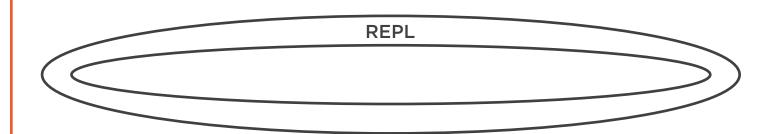


Task

Use different scheduler

Huh?

Conceptual model

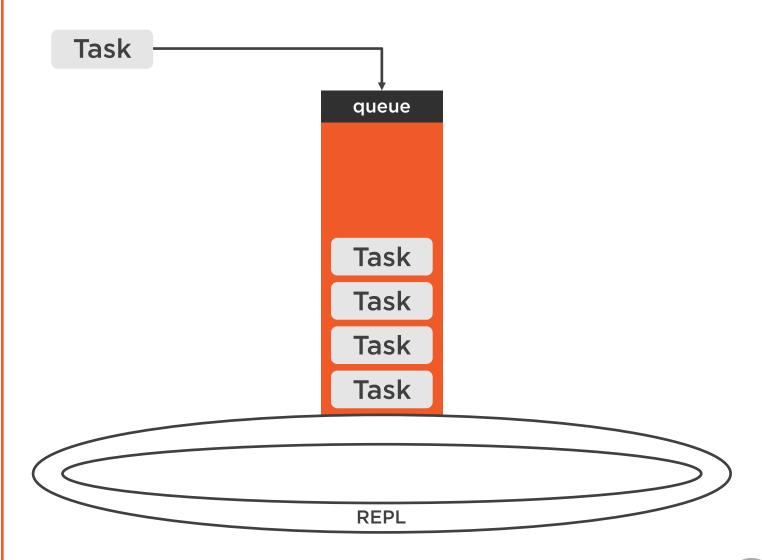




Use different scheduler

Huh?

Conceptual model

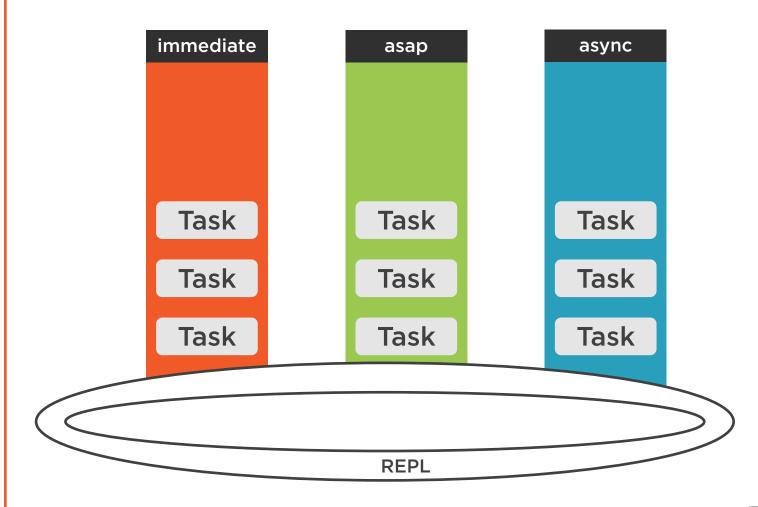




Use different scheduler

Huh?

Conceptual model

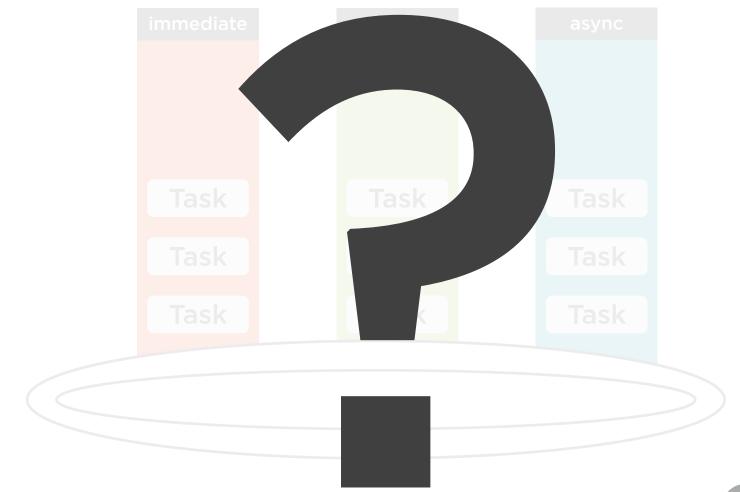




Use different scheduler

Huh?

Conceptual model

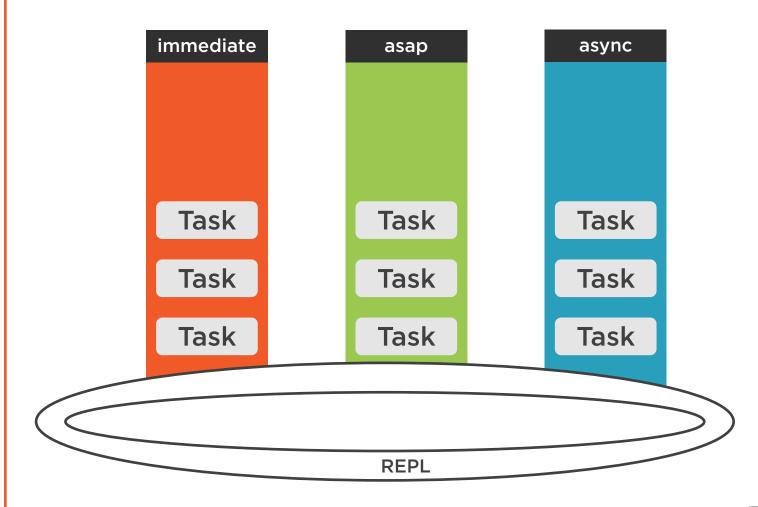




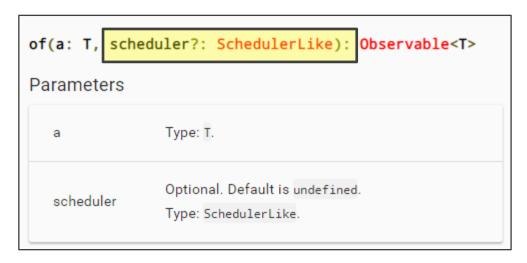
Use different scheduler

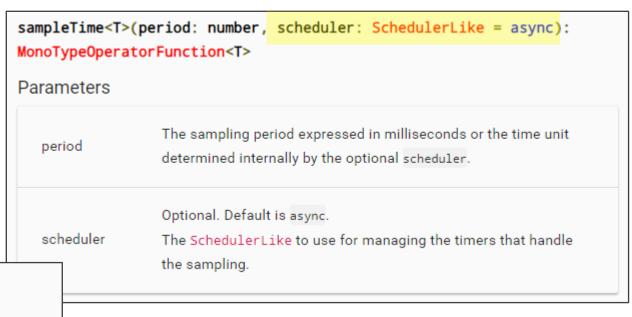
Huh?

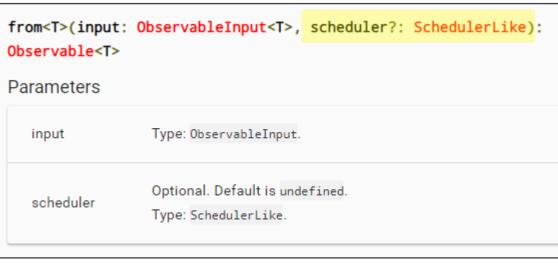
Conceptual model









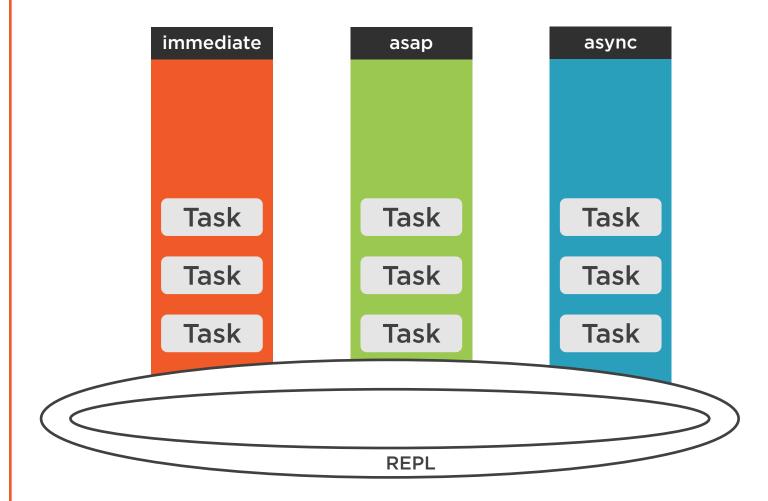


<pre>delay<t>(delay: number Date, scheduler: SchedulerLike = async): MonoTypeOperatorFunction<t></t></t></pre>		
Parameters		
delay	The delay duration in milliseconds (a number) or a Date until which the emission of the source items is delayed.	
scheduler	Optional. Default is async. The SchedulerLike to use for managing the timers that handle the time-shift for each item.	



subscribeOn

Change Observable scheduler





observeOn vs. subscribeOn

(default)

asap queued

asap emitted

async queued

async emitted

immediate emitted



observeOn vs. subscribeOn

(default)
asap queued
asap emitted
async queued
async emitted
immediate emitted

observeOn

asap queued

async queued

immediate emitted

asap emitted

async emitted

observeOn: re-emit values on a new scheduler



observeOn vs. subscribeOn

(default)

asap queued

asap emitted

async queued

async emitted

immediate emitted

asap queued
async queued
immediate emitted
asap emitted
async emitted

immediate emitted
asap queued
asap emitted
async queued
async queued
async emitted

observeOn: re-emit values on a new scheduler

subscribeOn: change the scheduler used by the source Observable



Available Schedulers

QueueScheduler AsapScheduler AsyncScheduler AnimationFrame VirtualTimeScheduler **TestScheduler** Scheduler

https://xgrommx.github.io/rx-book/content/getting_started_with_rxjs/scheduling_and_concurrency.html



debounce



Most recent from batch

Batch defined by

Observable



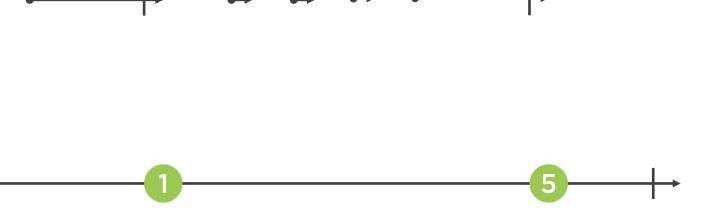


debounceTime



Most recent from batch

Batch defined in milliseconds





delay



Delay value start *n* milliseconds

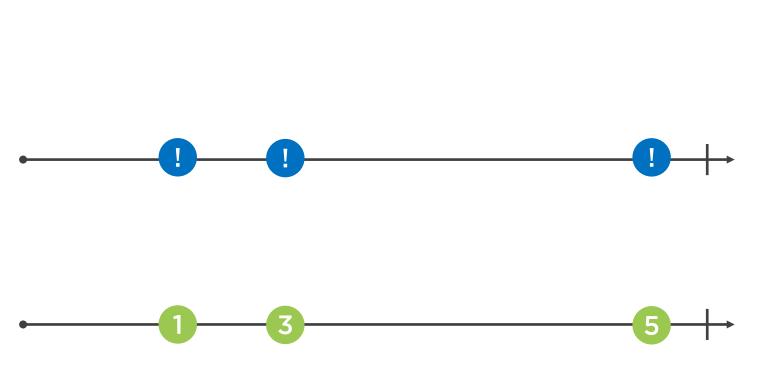




delayWhen



Delay values based on inner Observable

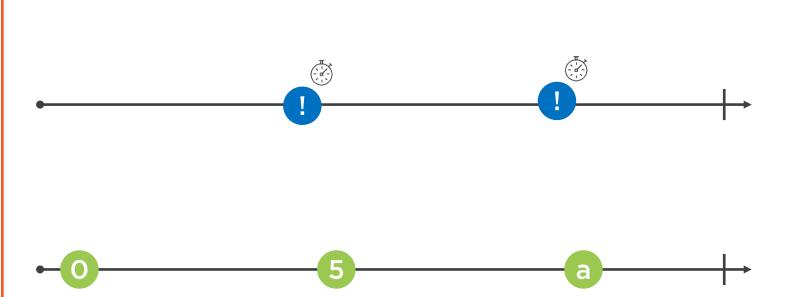




throttleTime



Emit first then next after *n* milliseconds





timeInterval



Emit value metadata



{ value: (value), interval: (interval) }



timeStamp



Emit value metadata



{ value: (value), timestamp: (timestamp) }

