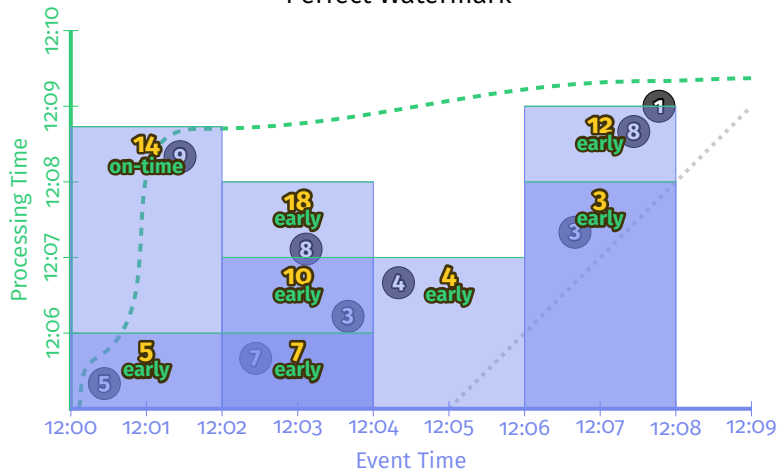


Perfect Watermark



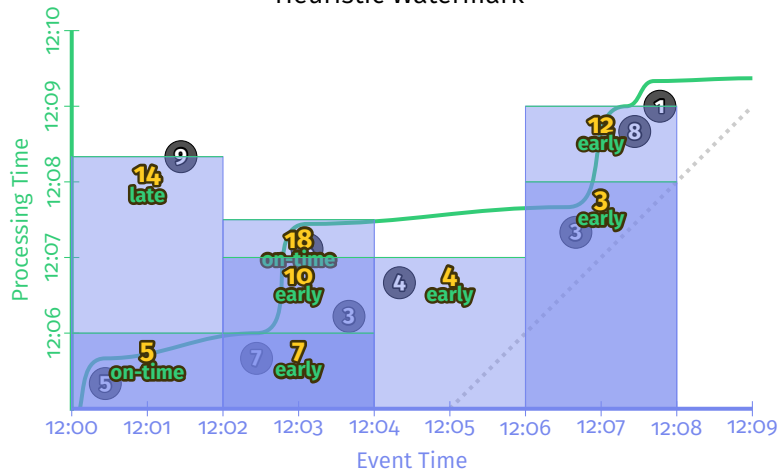
Perfect watermark:



Ideal watermark:



Heuristic Watermark



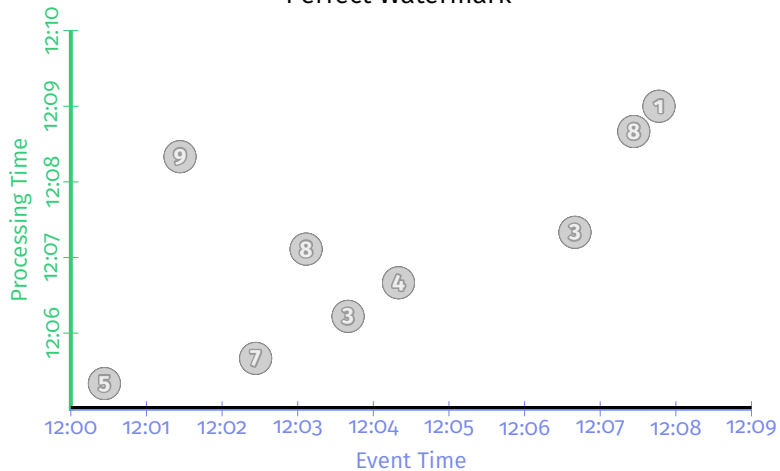
Heuristic watermark:



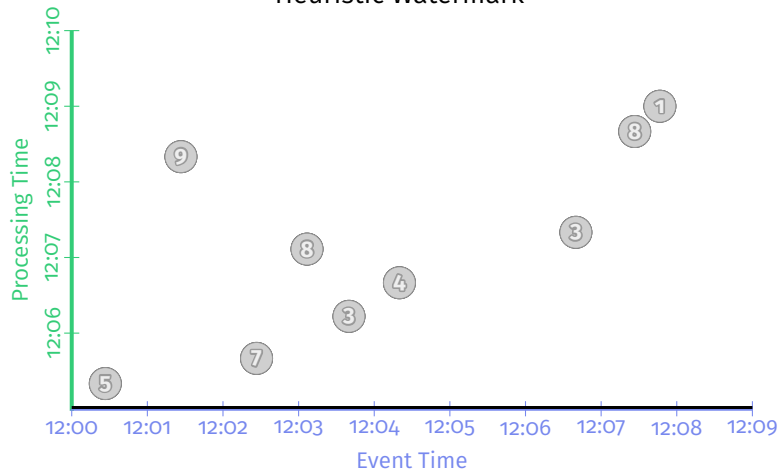
Ideal watermark:



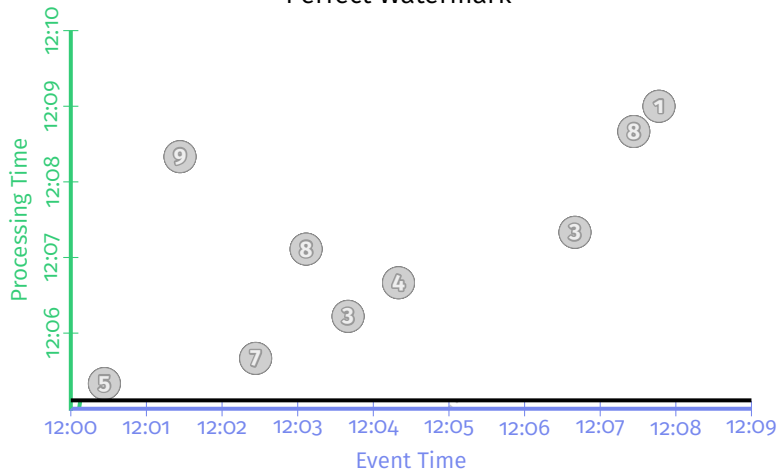
Perfect Watermark



Heuristic Watermark

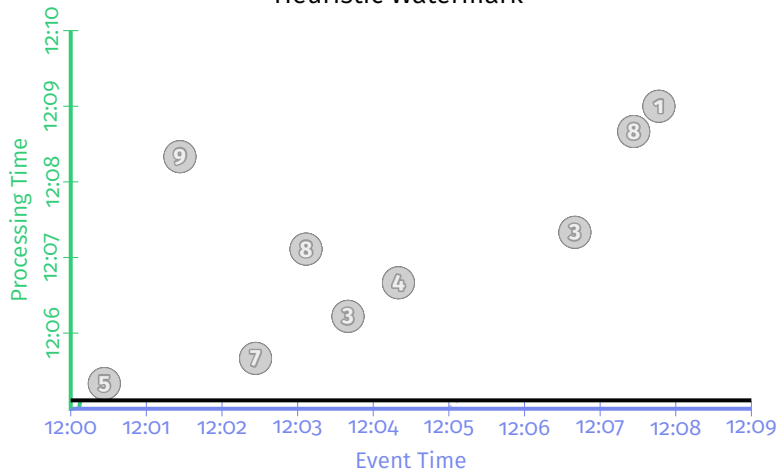


Perfect Watermark



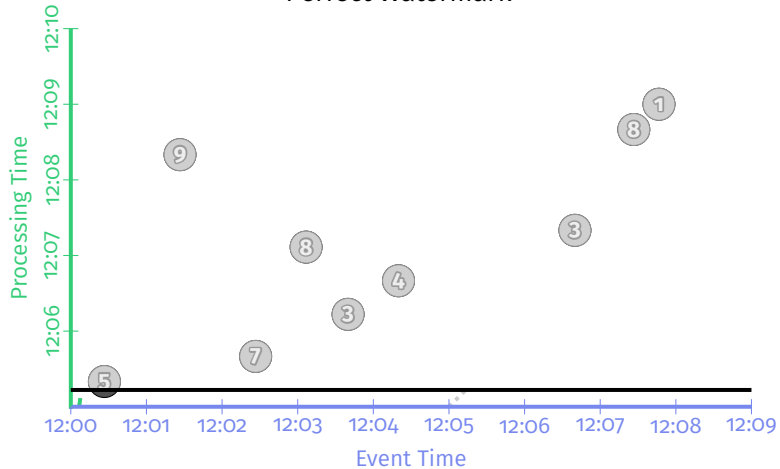
Perfect watermark: -----
 Ideal watermark:

Heuristic Watermark



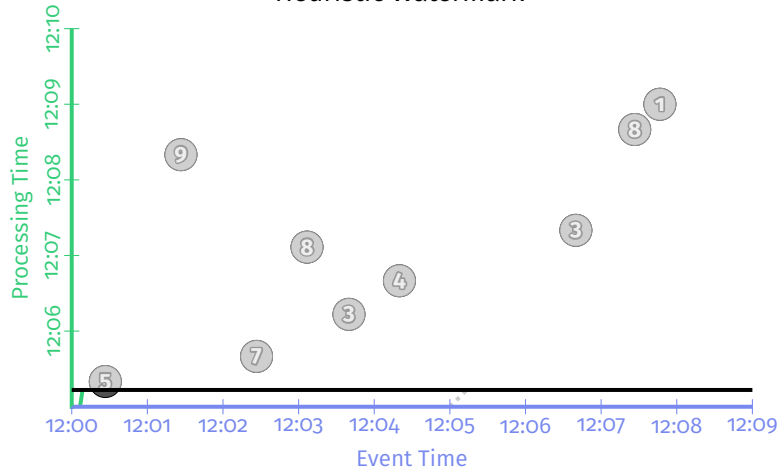
Heuristic watermark: —————
 Ideal watermark:

Perfect Watermark



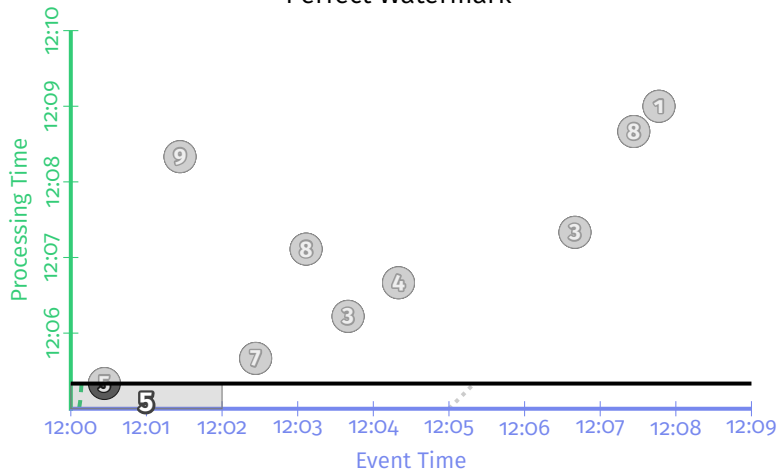
Perfect watermark: -----
 Ideal watermark:

Heuristic Watermark



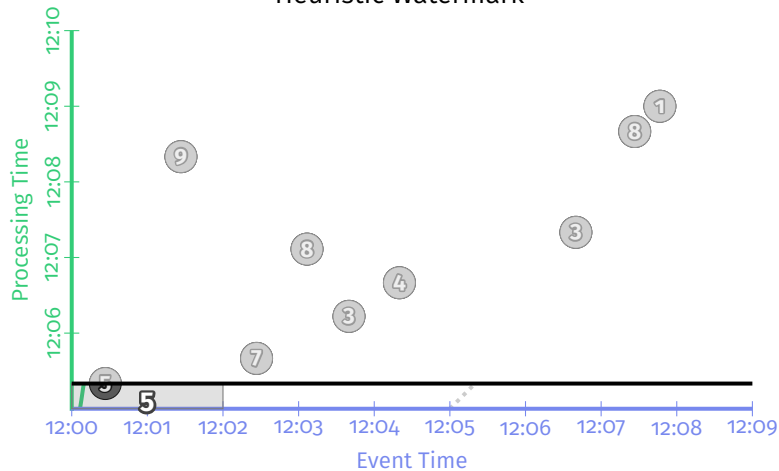
Heuristic watermark: —————
 Ideal watermark:

Perfect Watermark



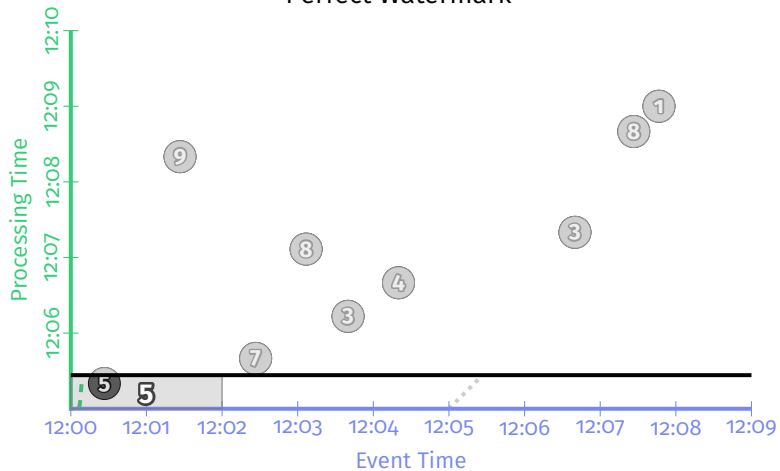
Perfect watermark: -----
 Ideal watermark:

Heuristic Watermark

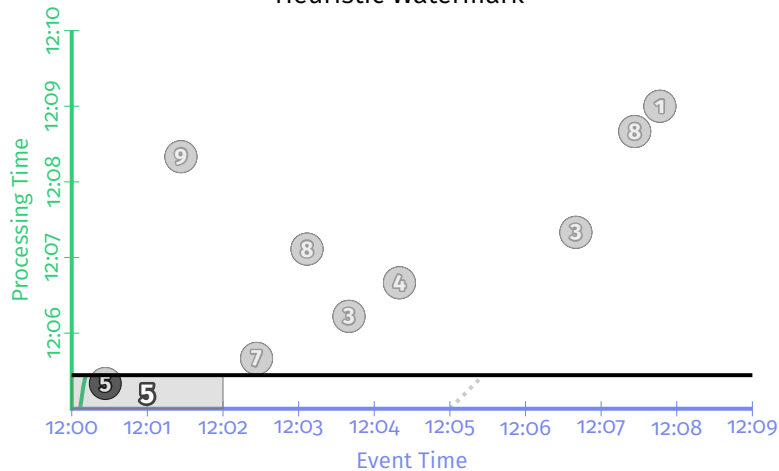


Heuristic watermark: —————
 Ideal watermark:

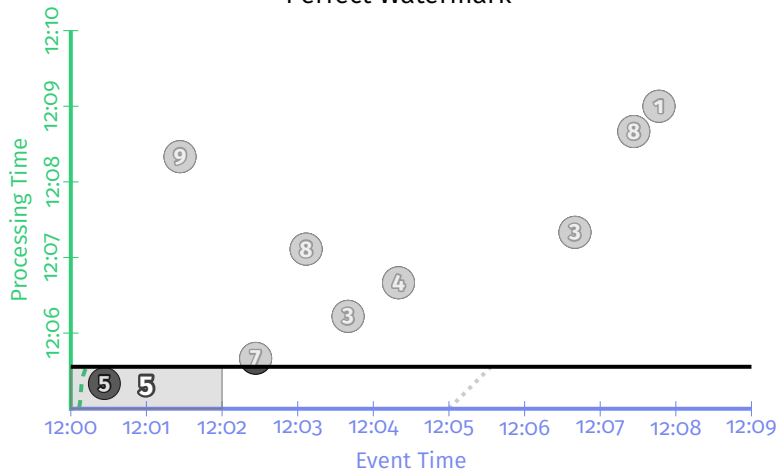
Perfect Watermark



Heuristic Watermark

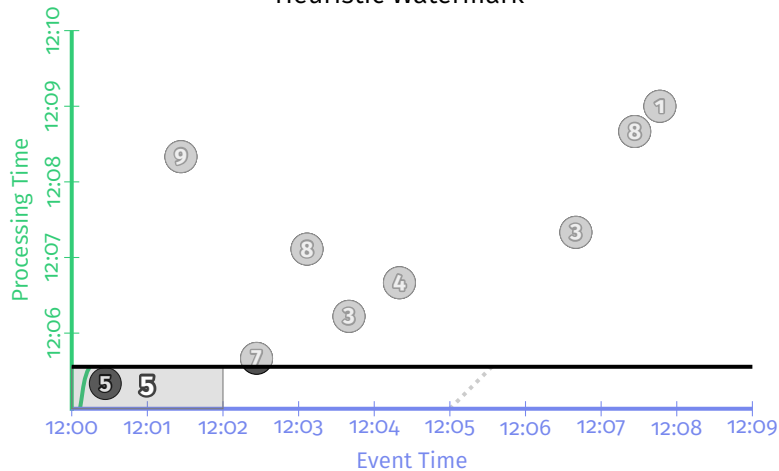


Perfect Watermark



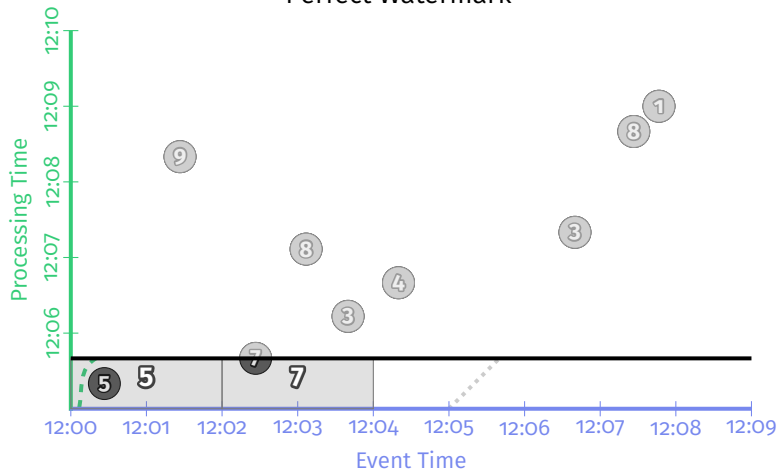
Perfect watermark: - - - - -
 Ideal watermark:

Heuristic Watermark



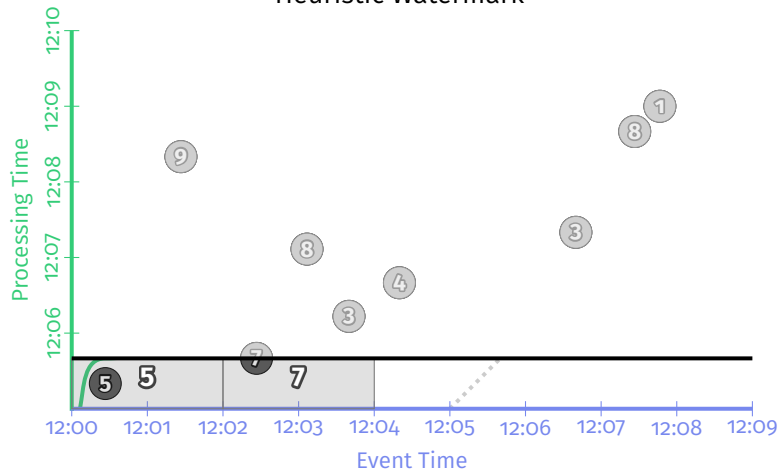
Heuristic watermark: —————
 Ideal watermark:

Perfect Watermark



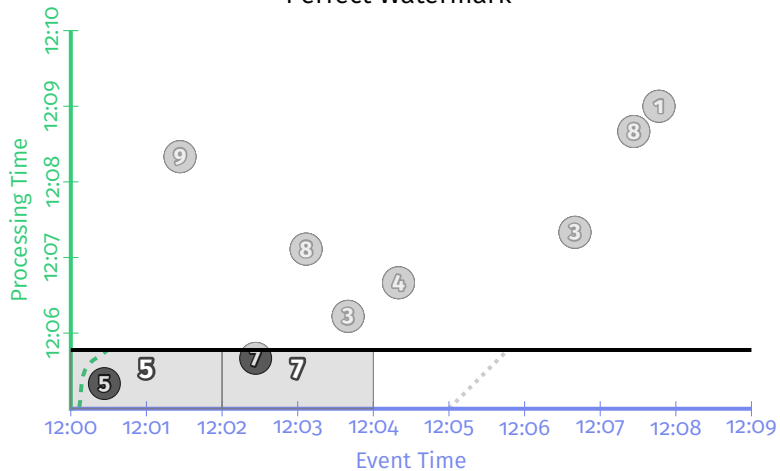
Perfect watermark: ---
 Ideal watermark: ...

Heuristic Watermark



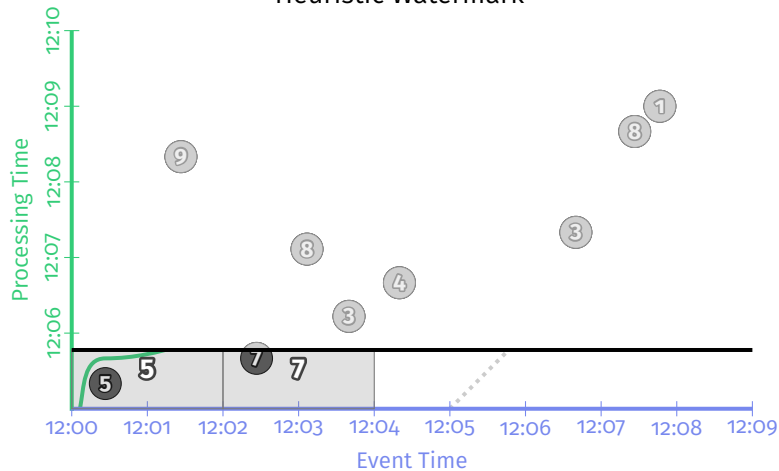
Heuristic watermark: —
 Ideal watermark: ...

Perfect Watermark



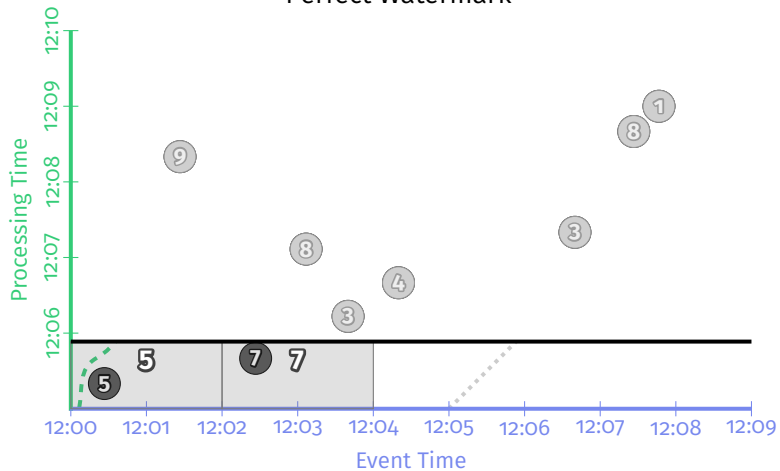
Perfect watermark: - - - - -
 Ideal watermark:

Heuristic Watermark



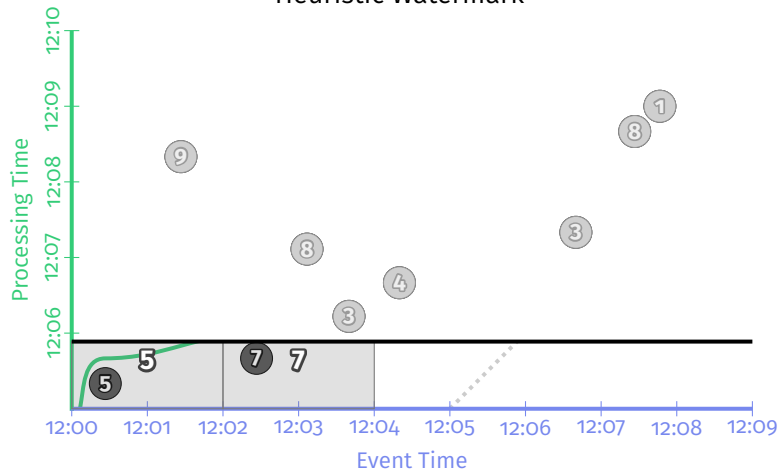
Heuristic watermark: —————
 Ideal watermark:

Perfect Watermark



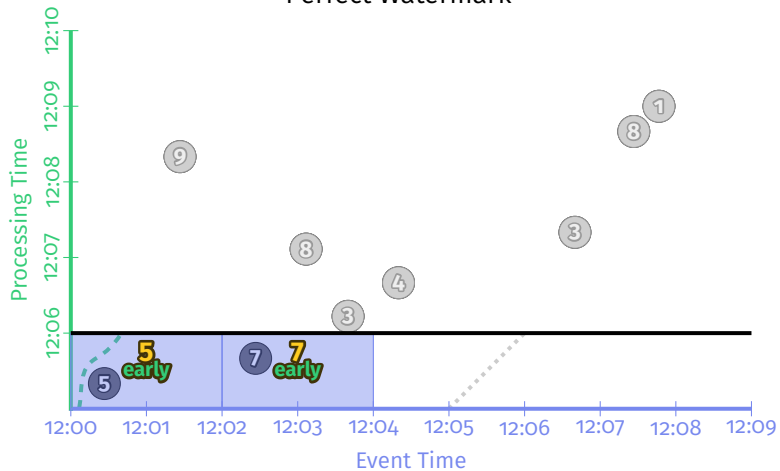
Perfect watermark: - - - - -
 Ideal watermark:

Heuristic Watermark

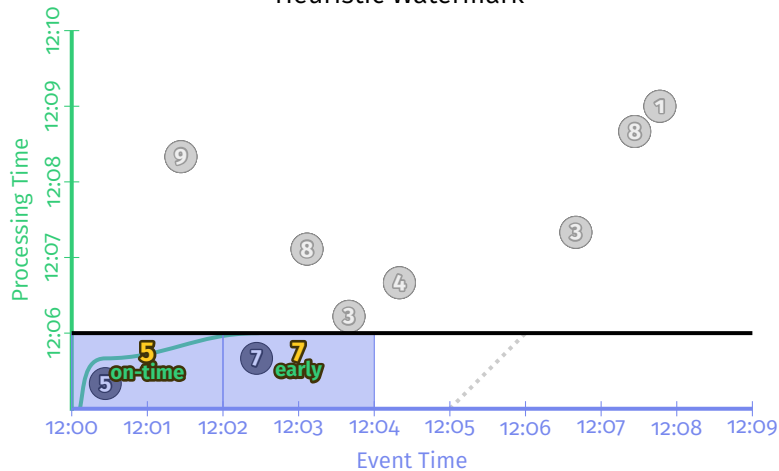


Heuristic watermark: —————
 Ideal watermark:

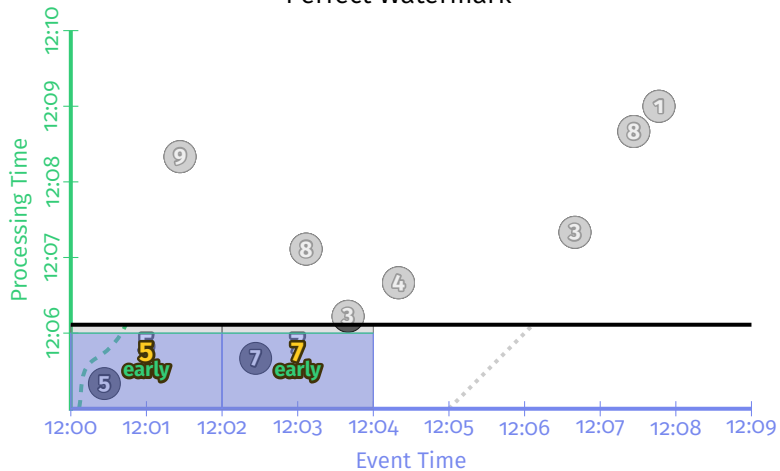
Perfect Watermark



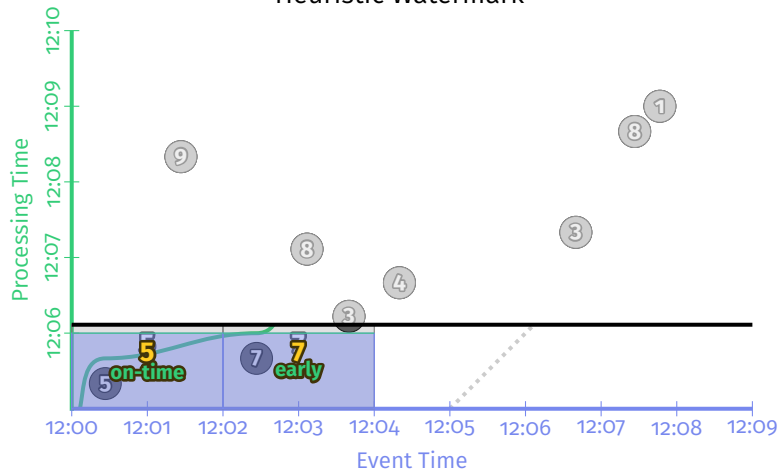
Heuristic Watermark



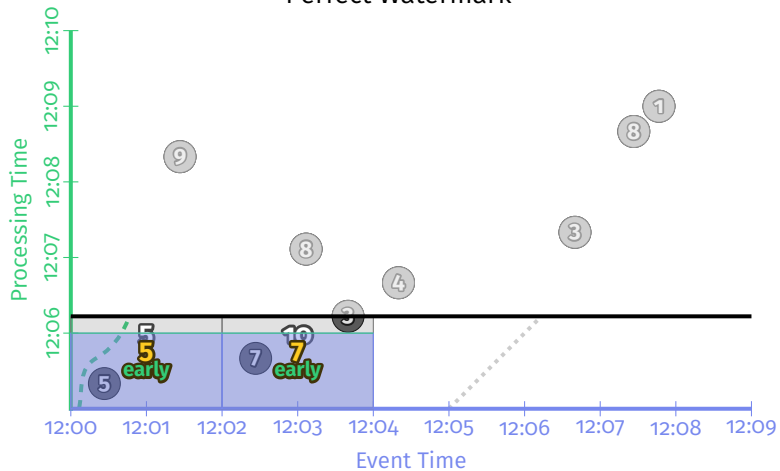
Perfect Watermark



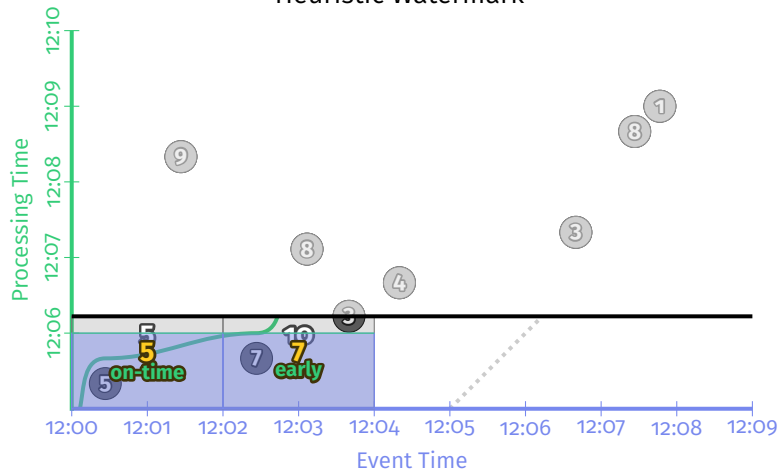
Heuristic Watermark



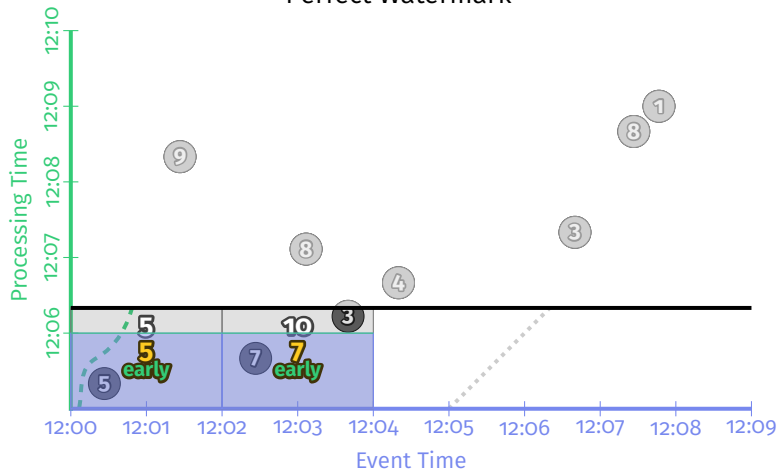
Perfect Watermark



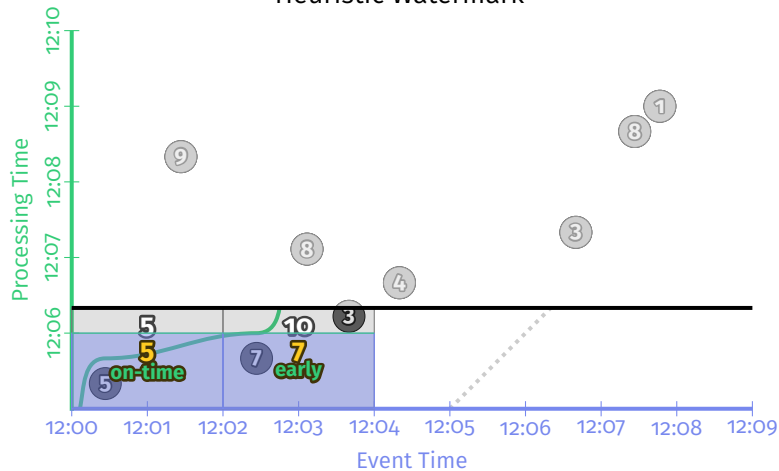
Heuristic Watermark



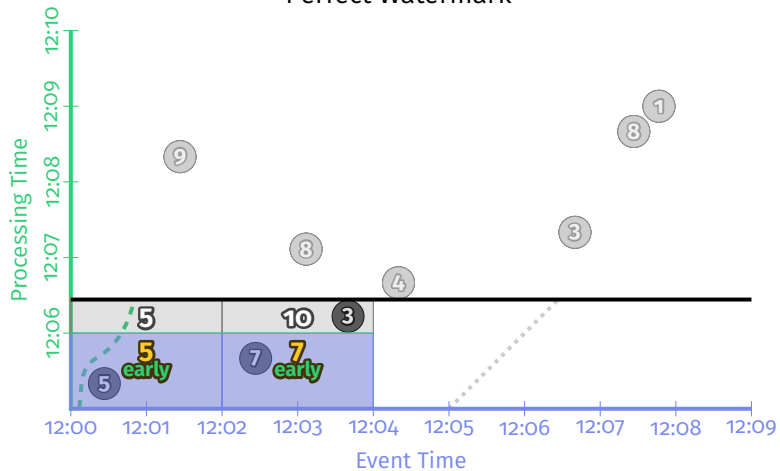
Perfect Watermark



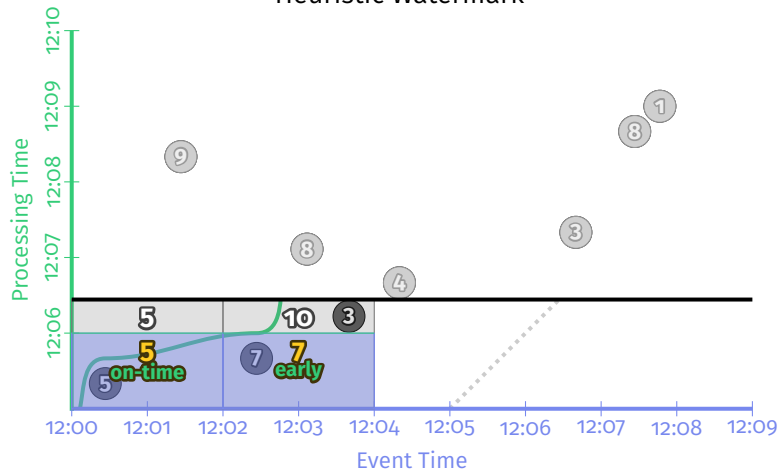
Heuristic Watermark



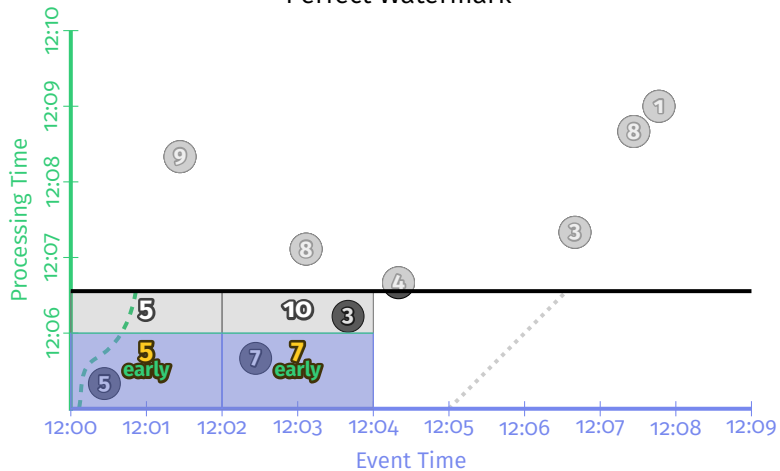
Perfect Watermark



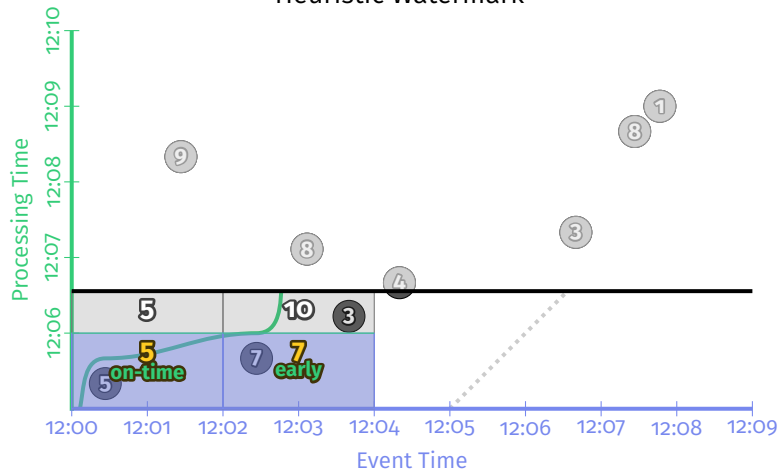
Heuristic Watermark



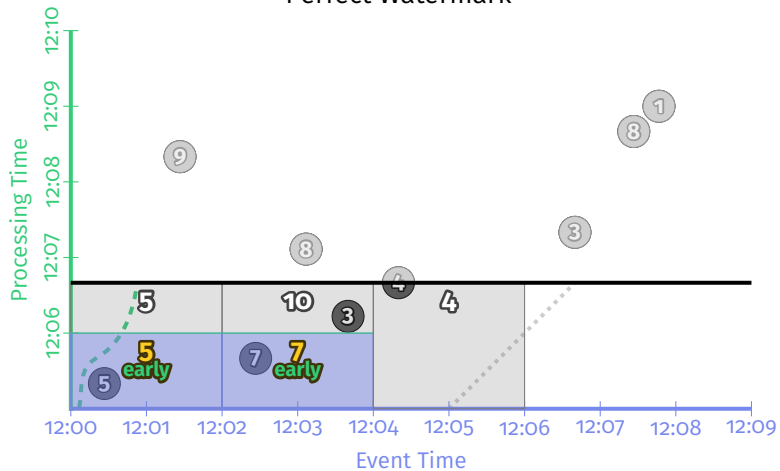
Perfect Watermark



Heuristic Watermark

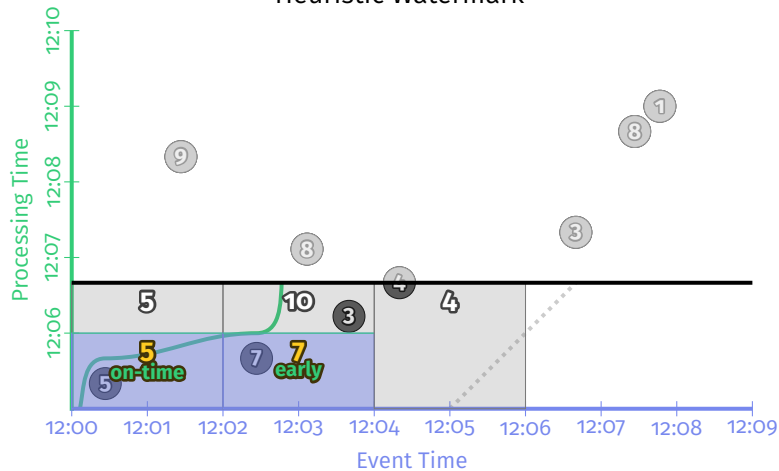


Perfect Watermark



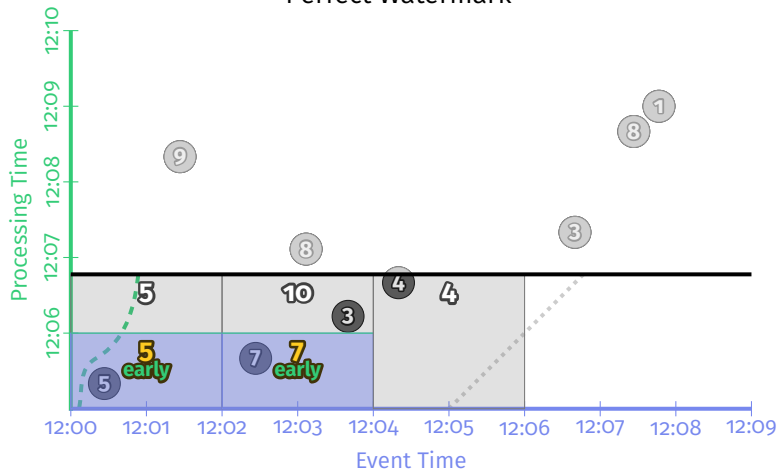
Perfect watermark: - - - - -
 Ideal watermark:

Heuristic Watermark



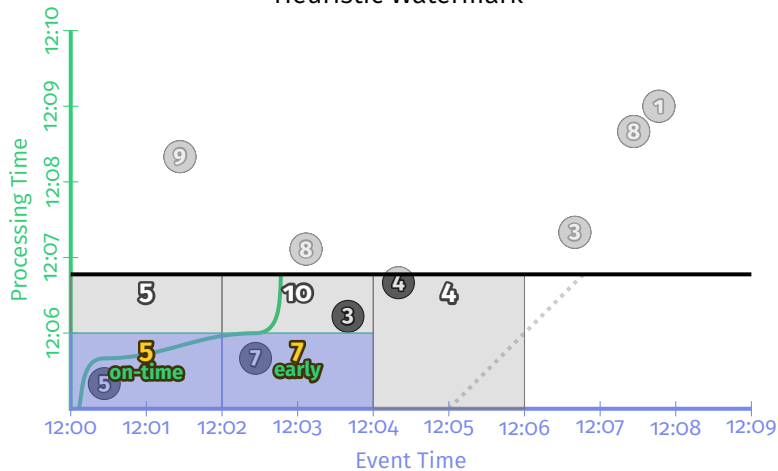
Heuristic watermark: —————
 Ideal watermark:

Perfect Watermark



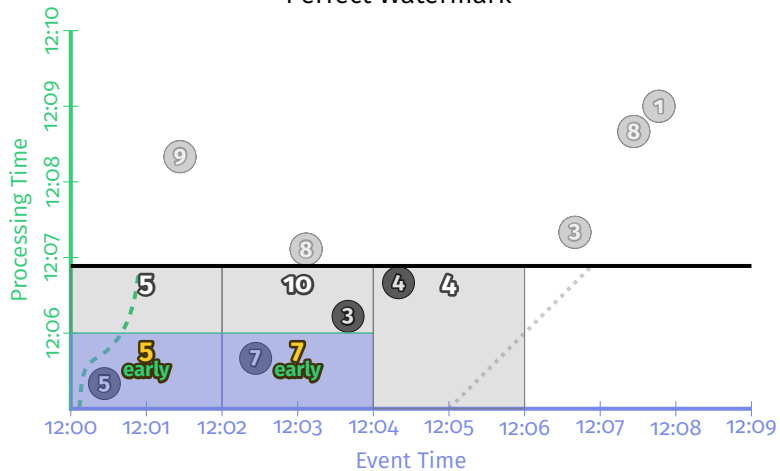
Perfect watermark: -----
 Ideal watermark:

Heuristic Watermark



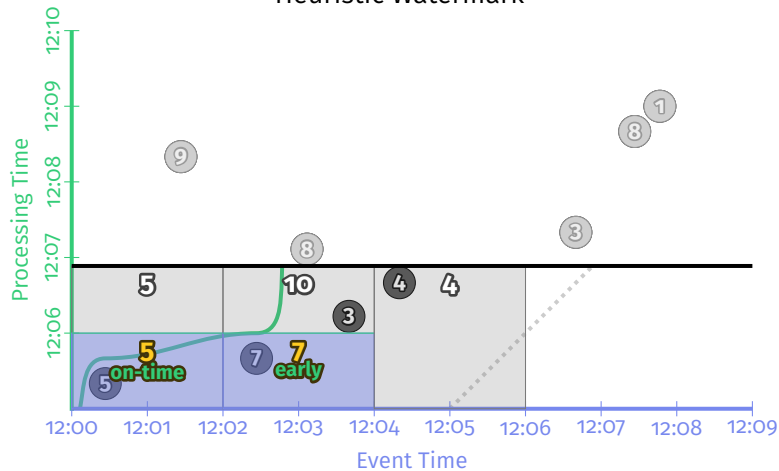
Heuristic watermark: —————
 Ideal watermark:

Perfect Watermark



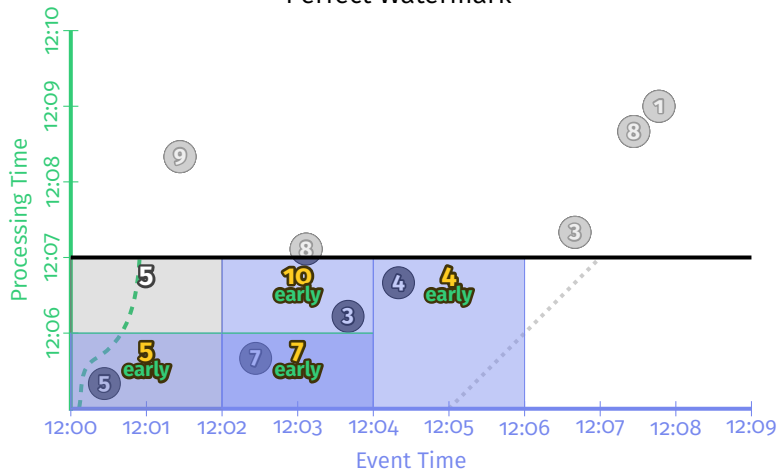
Perfect watermark: ---
 Ideal watermark: ---

Heuristic Watermark

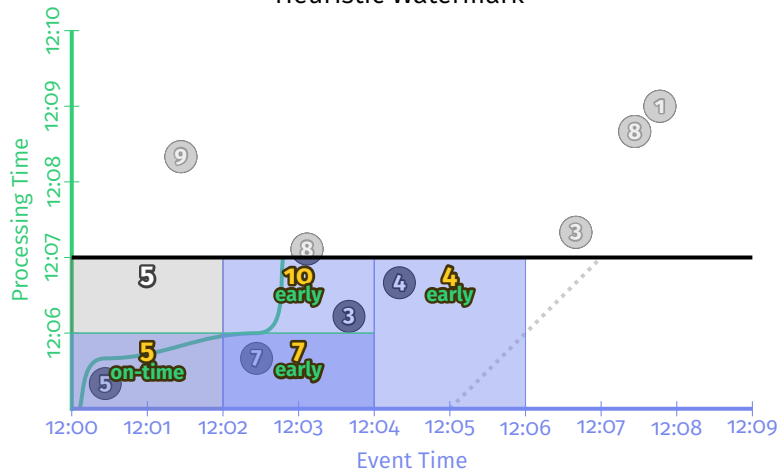


Heuristic watermark: —
 Ideal watermark: ---

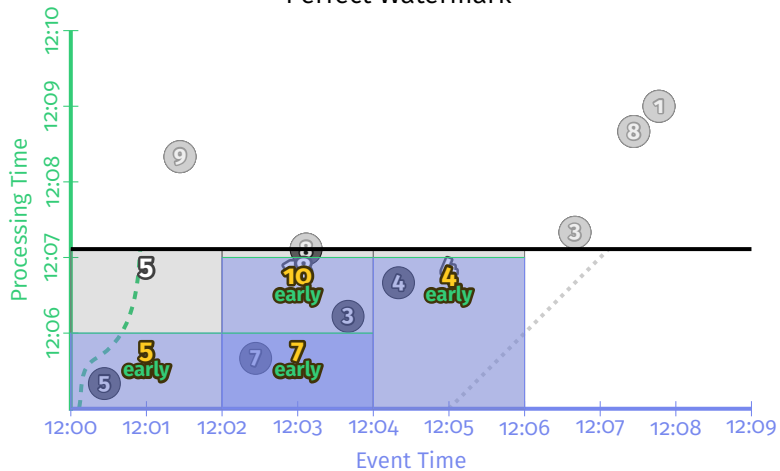
Perfect Watermark



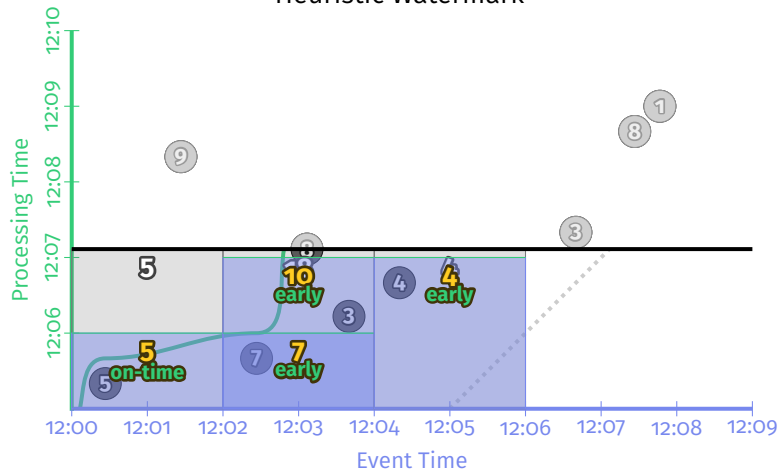
Heuristic Watermark



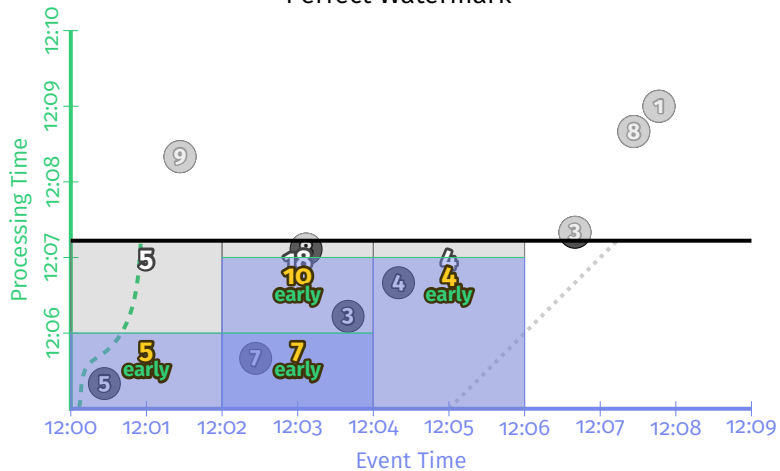
Perfect Watermark



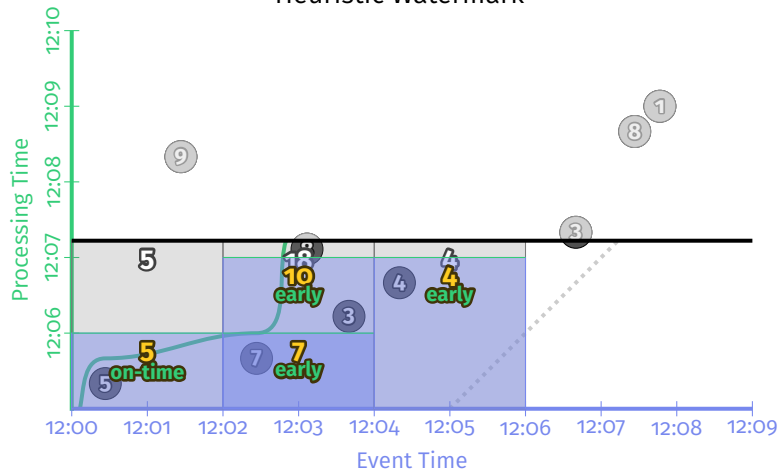
Heuristic Watermark



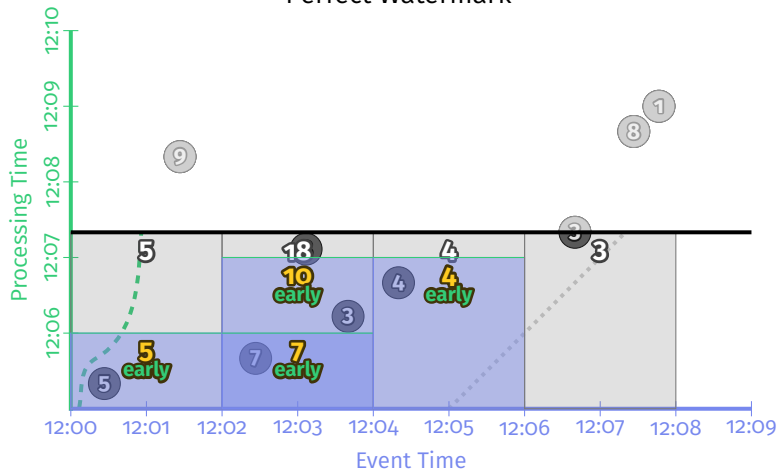
Perfect Watermark



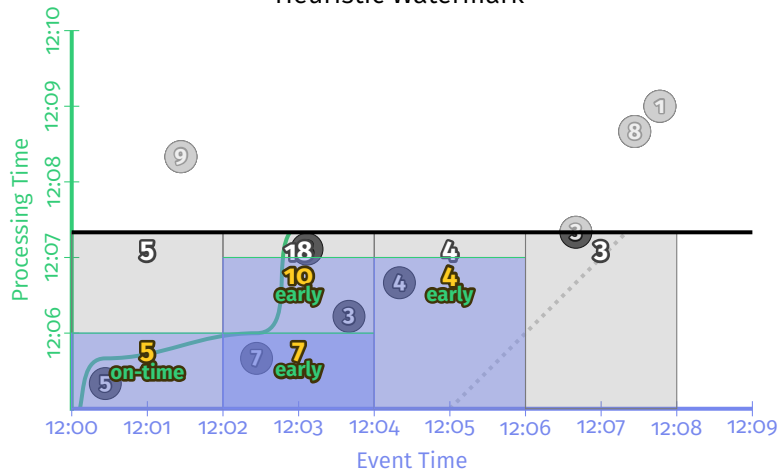
Heuristic Watermark



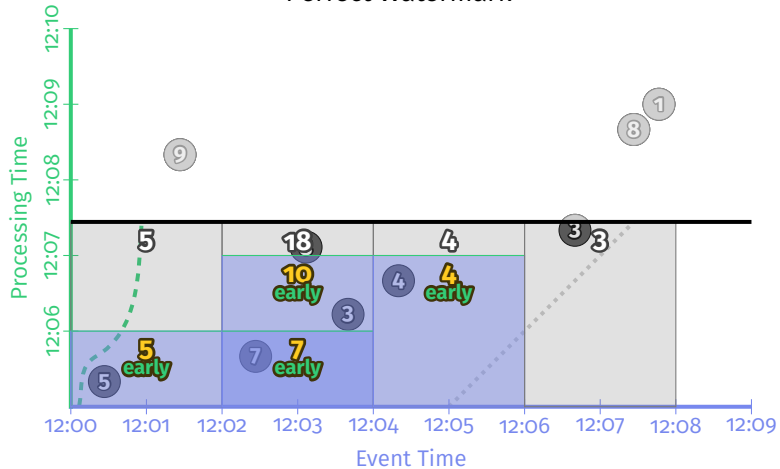
Perfect Watermark



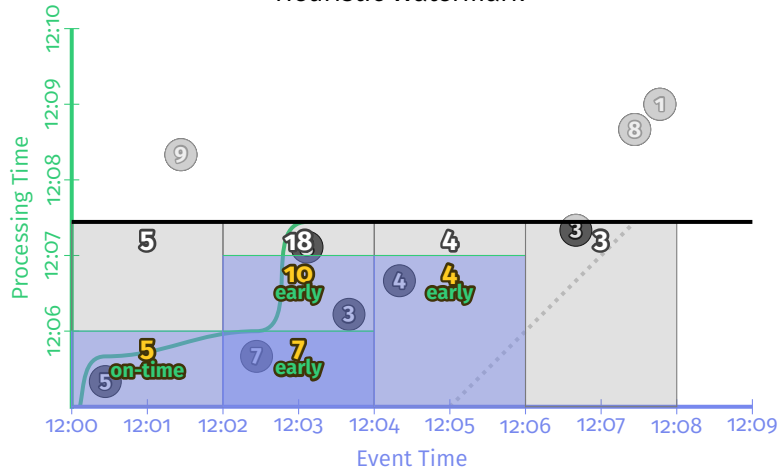
Heuristic Watermark



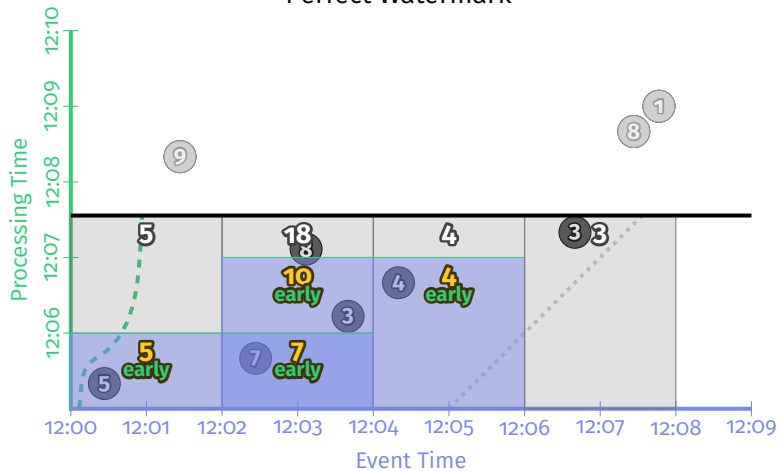
Perfect Watermark



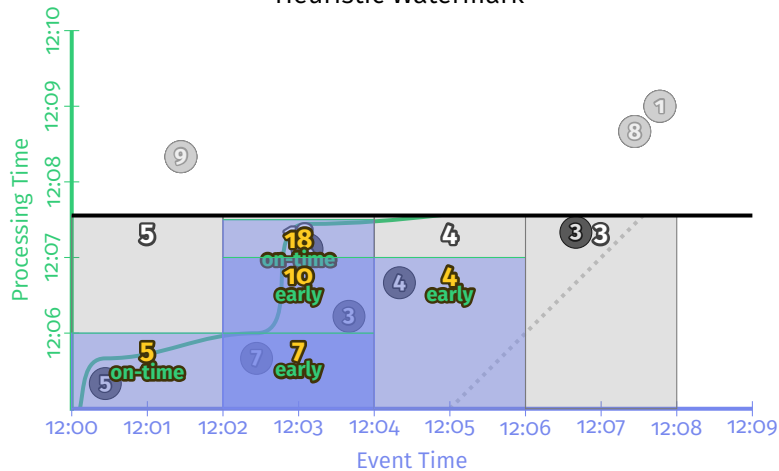
Heuristic Watermark



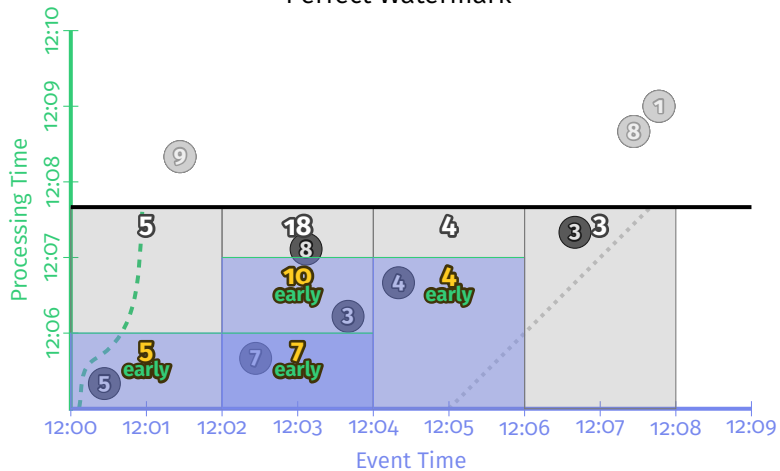
Perfect Watermark



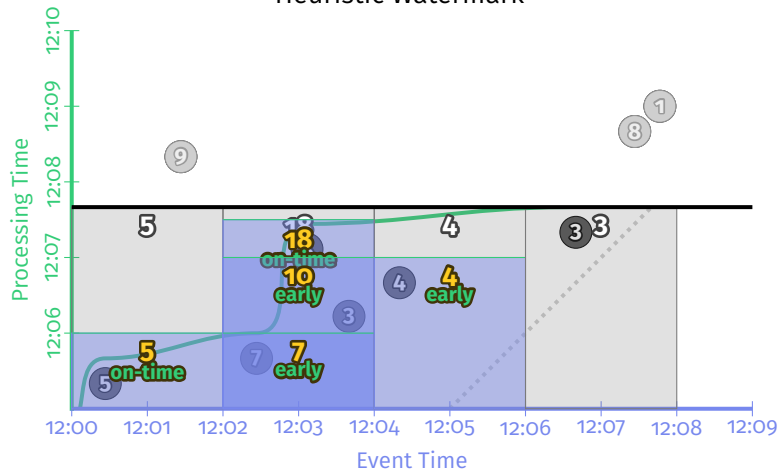
Heuristic Watermark



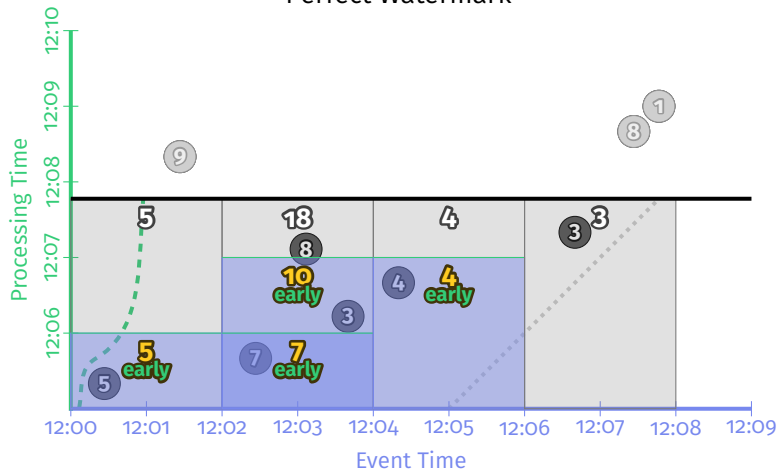
Perfect Watermark



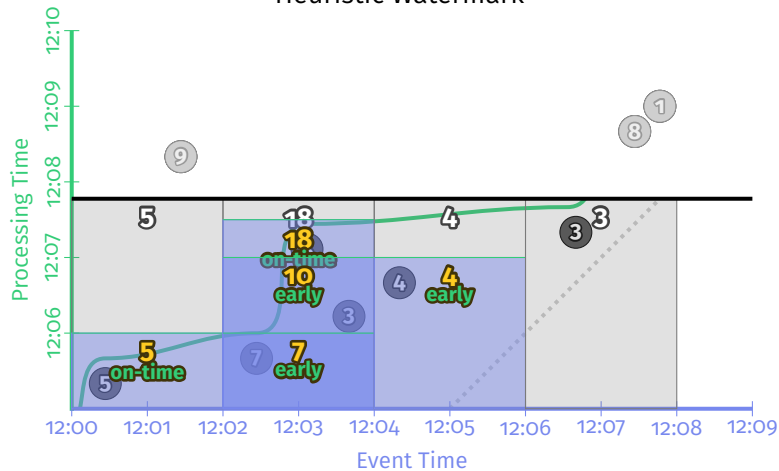
Heuristic Watermark



Perfect Watermark



Heuristic Watermark




The Gantt chart illustrates the processing time of events over a period from 12:00 to 12:09. The y-axis represents processing time, and the x-axis represents event time. The chart is divided into four vertical segments, each representing a different event or task. The segments are color-coded: light blue for the first three segments and grey for the fourth. The first segment (12:00-12:02) shows a dashed green line and a solid green line. The second segment (12:02-12:04) shows a dotted green line and a solid green line. The third segment (12:04-12:06) shows a dotted green line and a solid green line. The fourth segment (12:06-12:08) shows a dotted green line and a solid green line. Various numbers and labels are present in the chart, including '5 early', '7 early', '10 early', '4 early', '3', '8', '9', '1', and '4'.

Heuristic Watermark

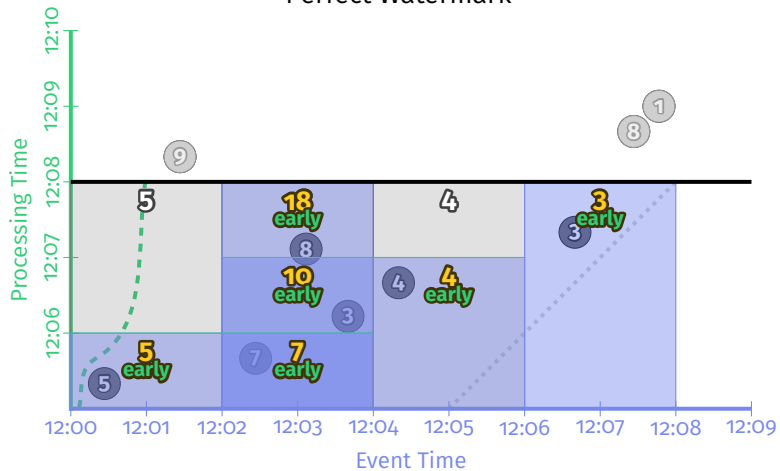
The Gantt chart illustrates the heuristic watermark for task scheduling. The vertical axis represents Processing Time (12:00 to 12:10) and the horizontal axis represents Event Time (12:00 to 12:09). The chart is divided into four vertical regions by event times 12:02, 12:04, and 12:06. A green line represents the heuristic watermark, which starts at (12:00, 12:00) and moves upwards, staying below the horizontal line at 12:07. Tasks are represented by circles with numbers. Some tasks are labeled 'on-time' or 'early' in green. A dotted diagonal line is also present.

Task ID	Event Time (Start)	Event Time (End)	Processing Time (Start)	Processing Time (End)	Status
5	12:00	12:02	12:00	12:06	on-time
7	12:02	12:04	12:06	12:07	early
10	12:02	12:04	12:07	12:08	early
18	12:02	12:04	12:08	12:09	on-time
4	12:04	12:06	12:06	12:07	early
3	12:06	12:08	12:07	12:08	on-time
9	12:00	12:02	12:08	12:09	on-time
1	12:06	12:08	12:09	12:10	on-time
8	12:06	12:08	12:08	12:09	on-time

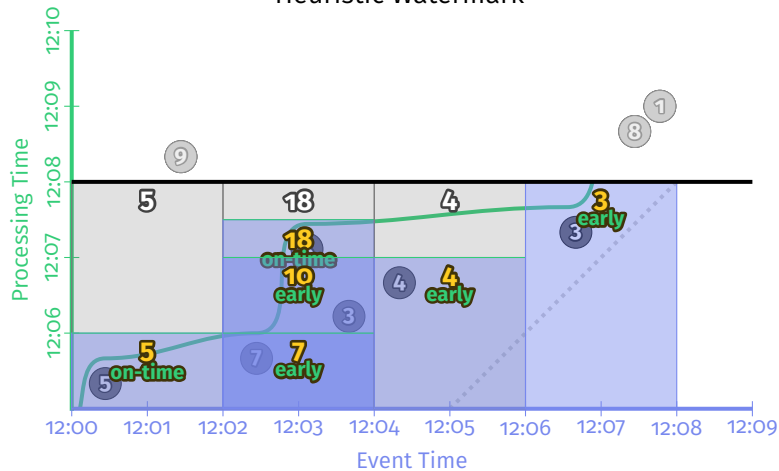
Heuristic watermark: 

Ideal watermark:

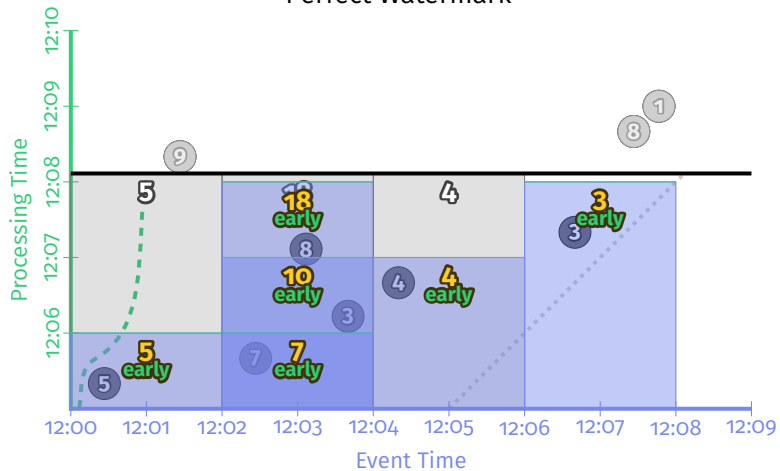
Perfect Watermark



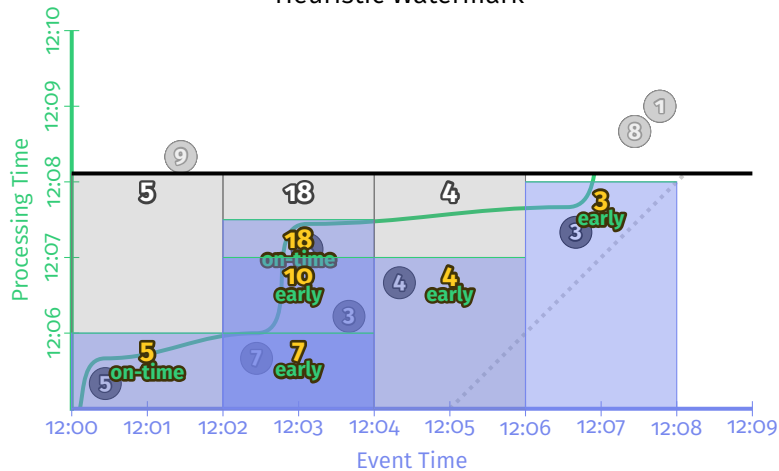
Heuristic Watermark



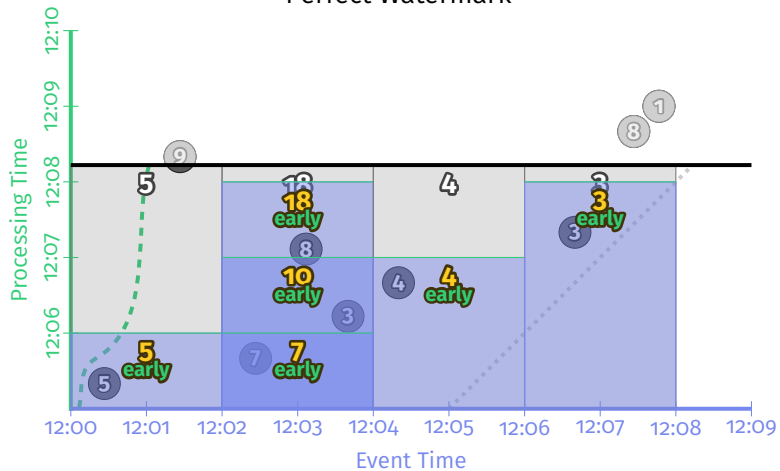
Perfect Watermark



Heuristic Watermark



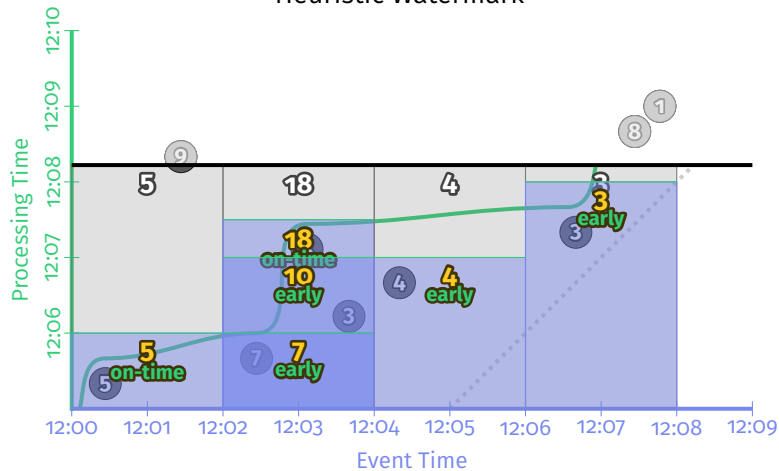
Perfect Watermark



Perfect watermark: -----

Ideal watermark:

Heuristic Watermark



Heuristic watermark: —————

Ideal watermark:

Perfect watermark

Event Time Interval	Processing Time Interval	Watermark Type	Data Points (Event Time, Processing Time)
12:00 - 12:02	12:00 - 12:06	Dashed Green	(12:00:30, 12:00:30) [5 early], (12:01:30, 12:07:30) [14]
12:02 - 12:04	12:00 - 12:06	Blue	(12:02:30, 12:05:30) [7 early], (12:03:30, 12:06:30) [10 early], (12:03:30, 12:07:30) [8], (12:03:30, 12:08:30) [18 early]
12:04 - 12:06	12:00 - 12:06	Blue	(12:04:30, 12:06:30) [4], (12:04:30, 12:07:30) [4 early]
12:04 - 12:06	12:06 - 12:08	Grey	(12:04:30, 12:08:30) [4]
12:06 - 12:08	12:00 - 12:06	Blue	(12:06:30, 12:07:30) [3], (12:06:30, 12:08:30) [3 early]
12:06 - 12:08	12:06 - 12:08	Blue	(12:06:30, 12:07:30) [3]
12:06 - 12:08	12:08 - 12:10	Grey	(12:07:30, 12:08:30) [8], (12:08:00, 12:08:30) [1]

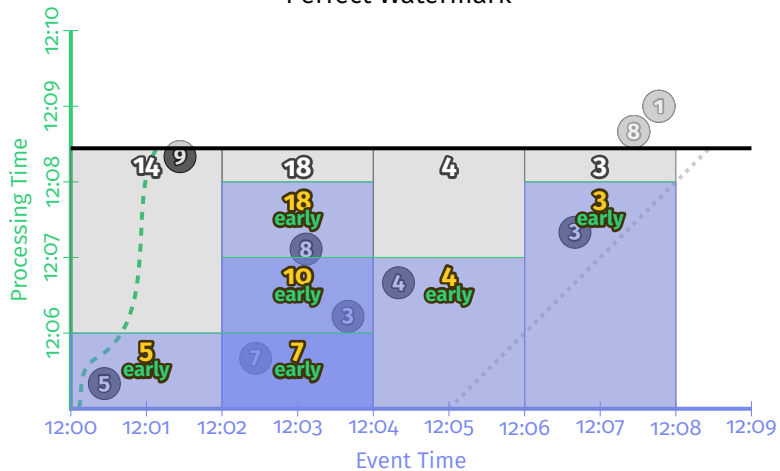
.....

■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■■

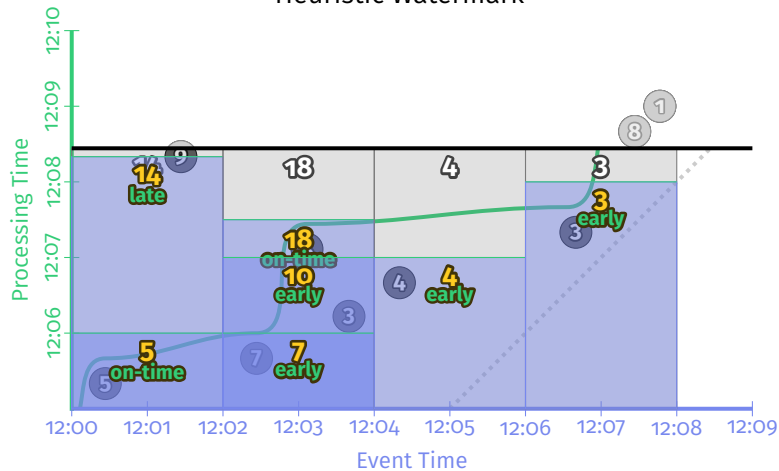
The Gantt chart illustrates the execution of tasks over time, with a horizontal black line at 12:08:15 representing the heuristic watermark. The tasks are represented by colored rectangles: grey for tasks 1, 4, 5, 8 and blue for tasks 3, 7, 10, 18. A green line shows the execution path of a task, starting at 12:00, moving to task 5 (on-time), then to task 18 (early), then to task 10 (early), then to task 4 (early), then to task 3 (early), and finally to task 3 (early) again. A dotted line represents the ideal execution path. Various task numbers are labeled within the rectangles, indicating their status relative to the watermark.

■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

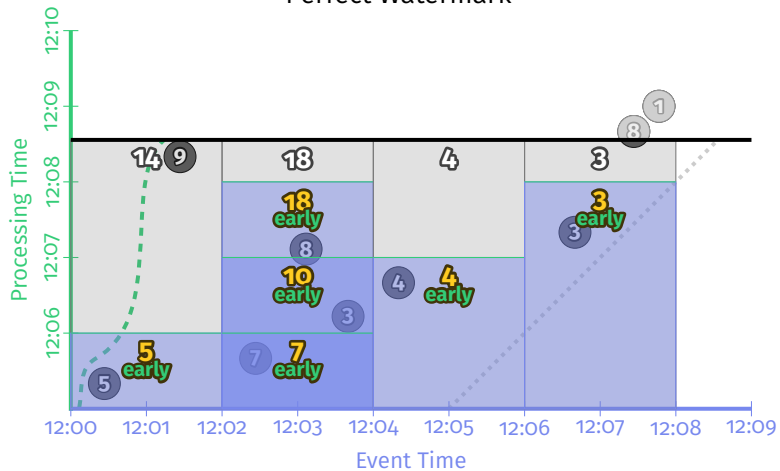
Perfect Watermark



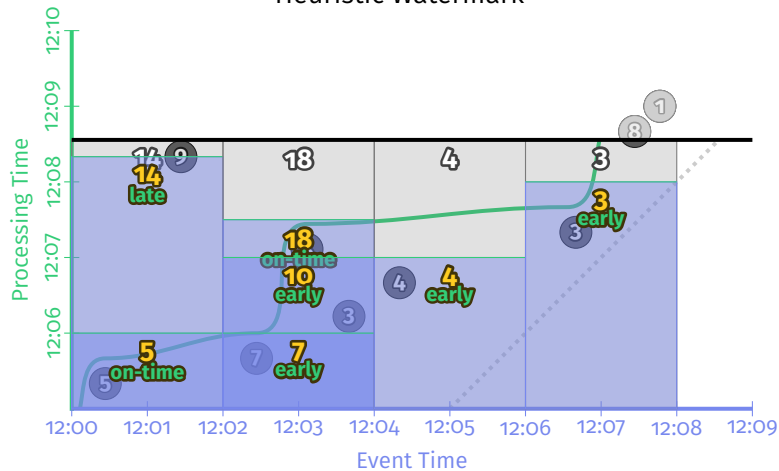
Heuristic Watermark



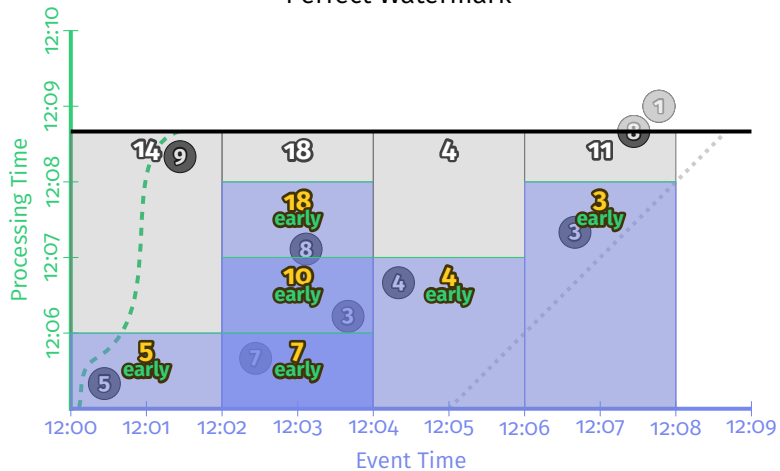
Perfect Watermark



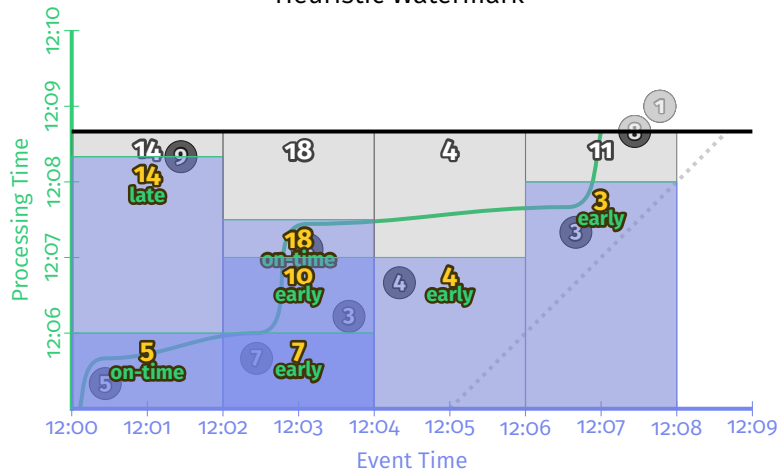
Heuristic Watermark



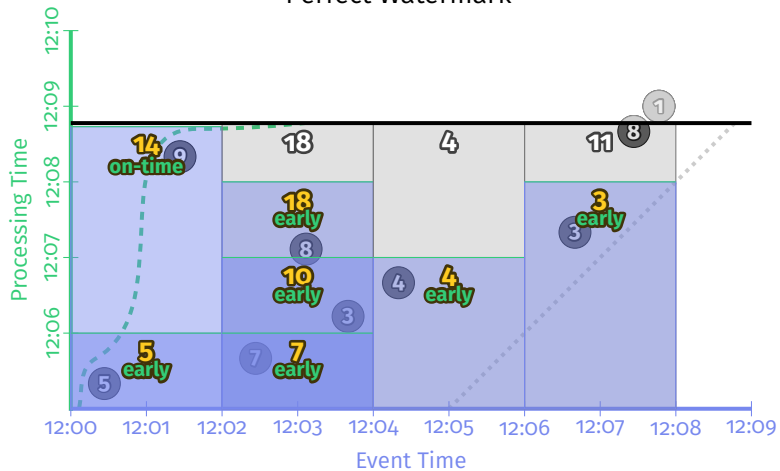
Perfect Watermark



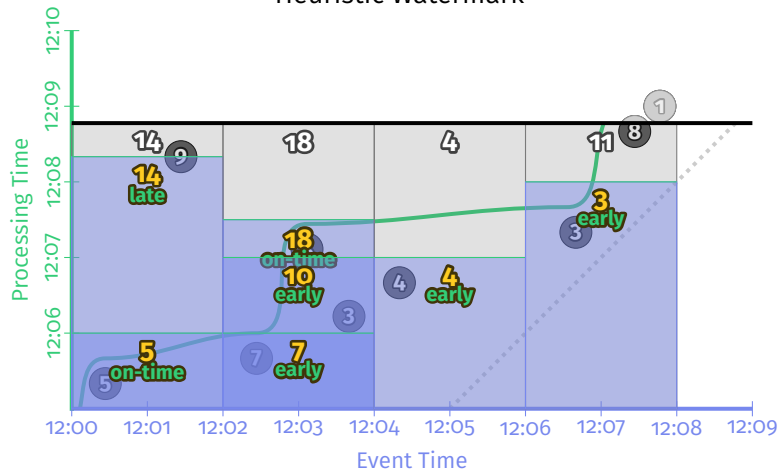
Heuristic Watermark



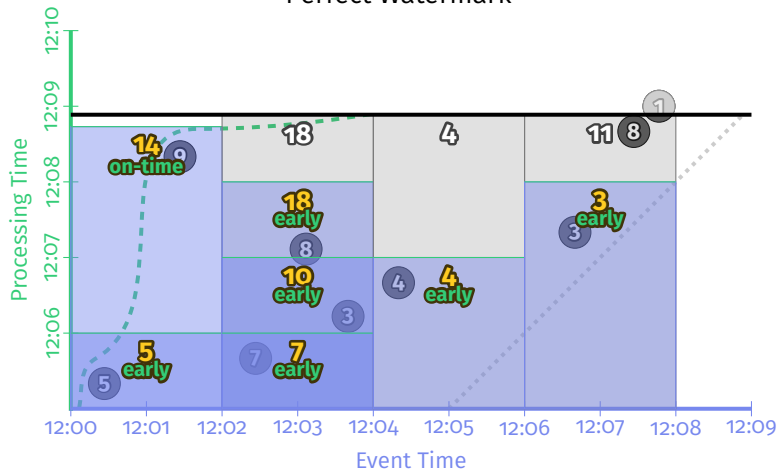
Perfect Watermark



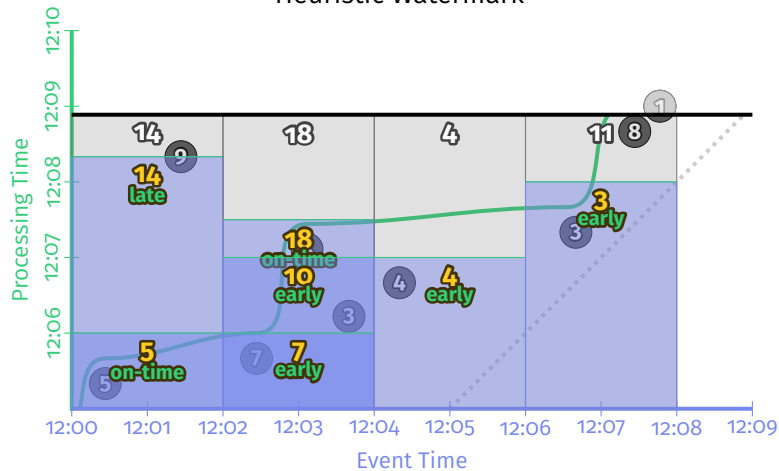
Heuristic Watermark



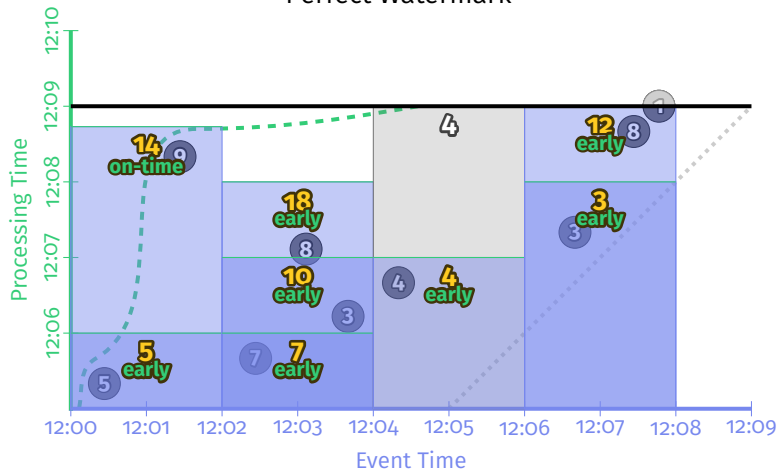
Perfect Watermark



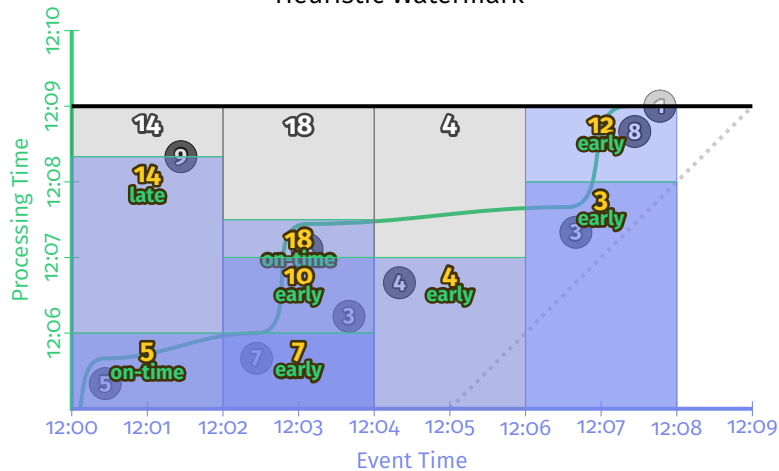
Heuristic Watermark



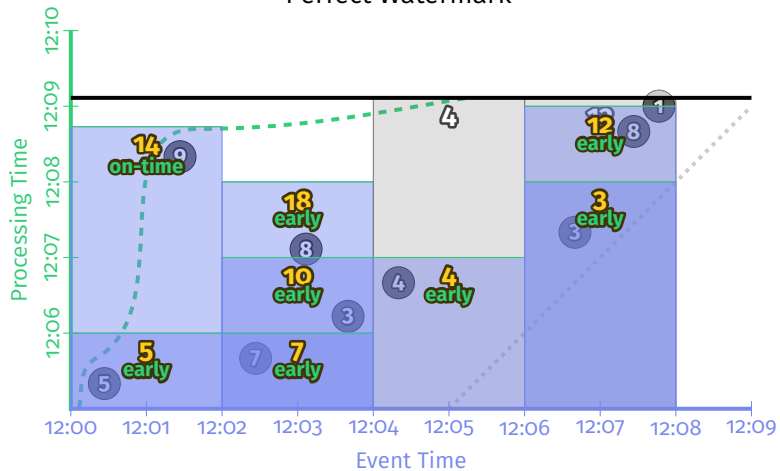
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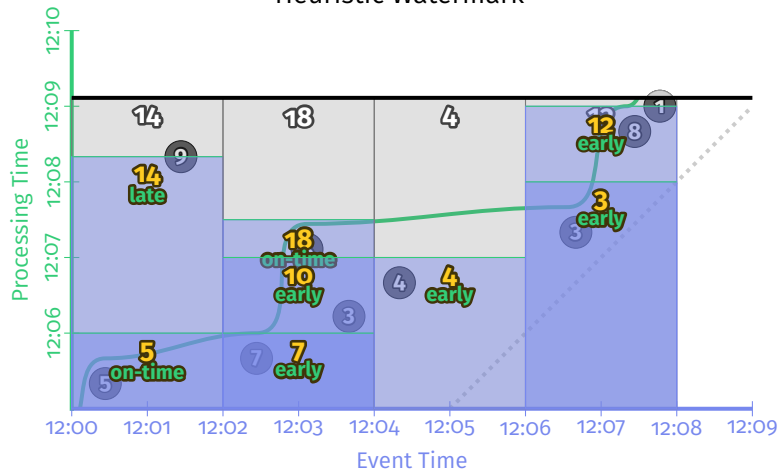
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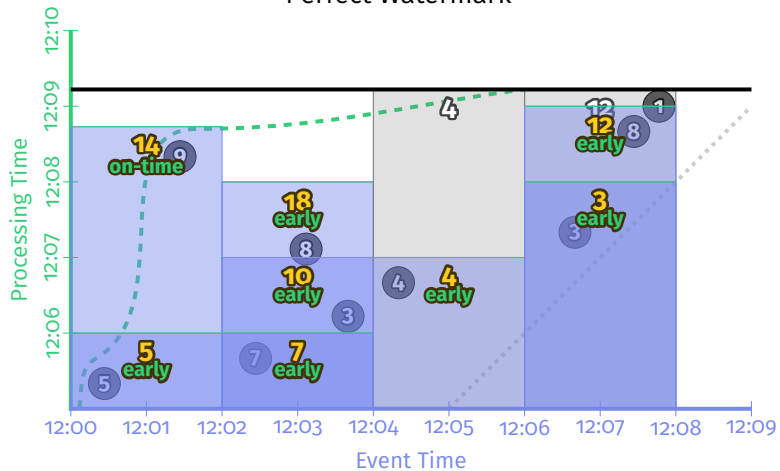
Perfect Watermark



Heuristic Watermark



Perfect Watermark



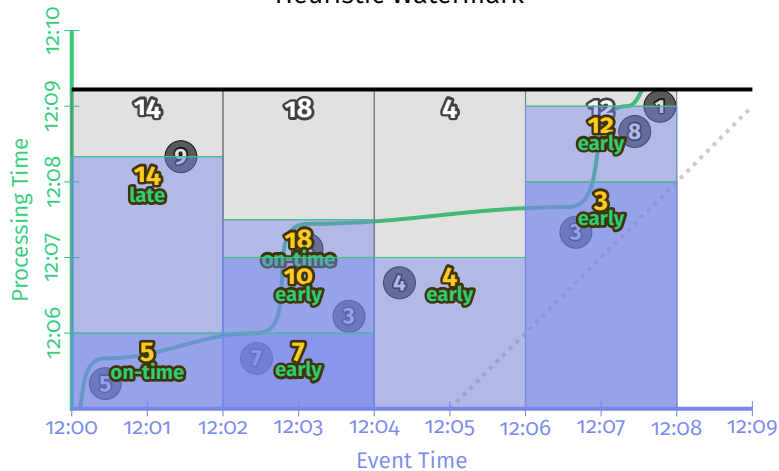
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Ideal watermark:



Heuristic Watermark



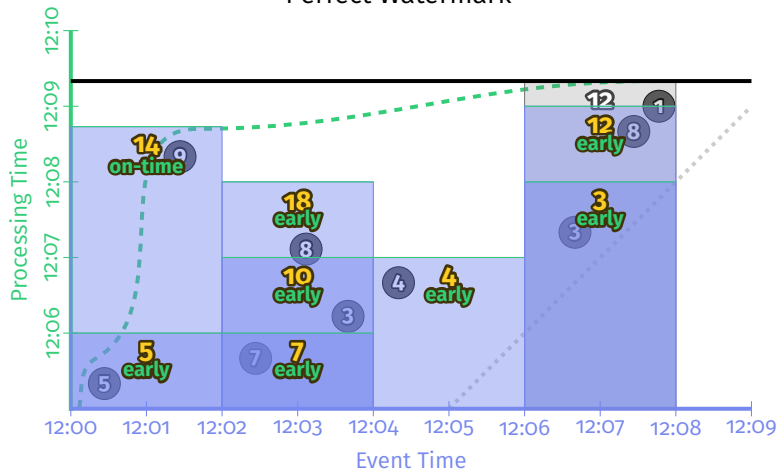
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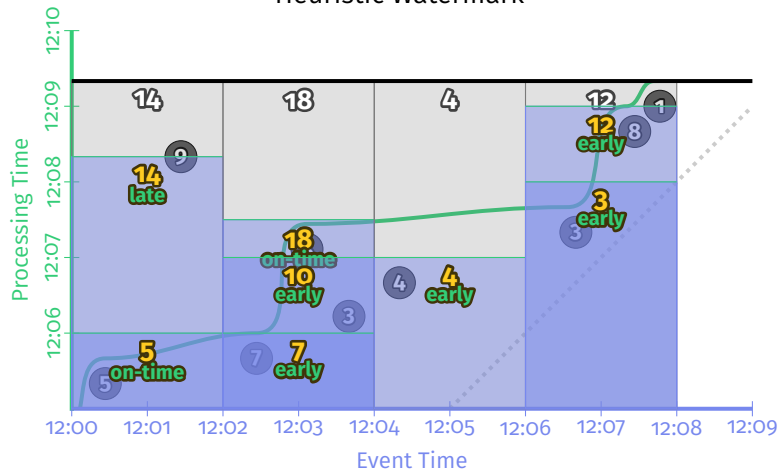
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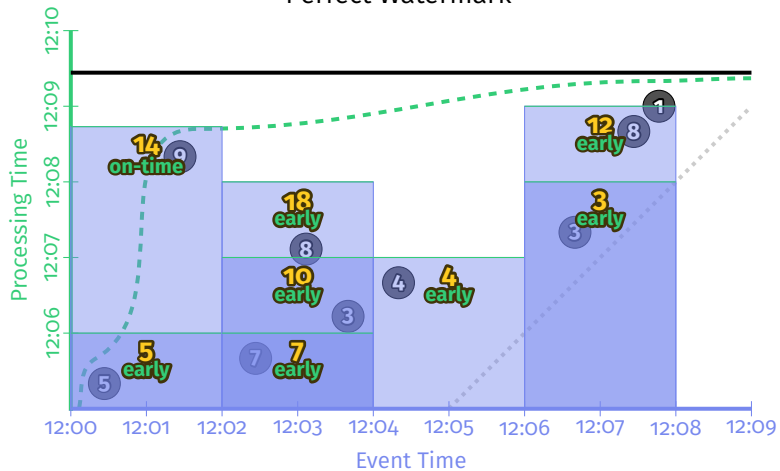
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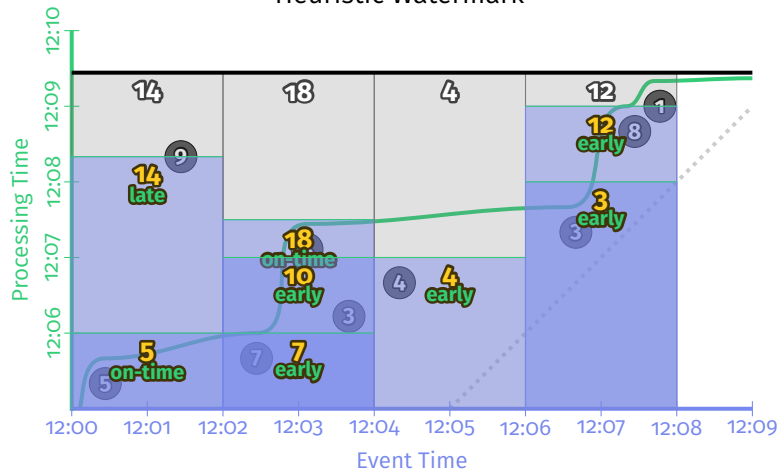
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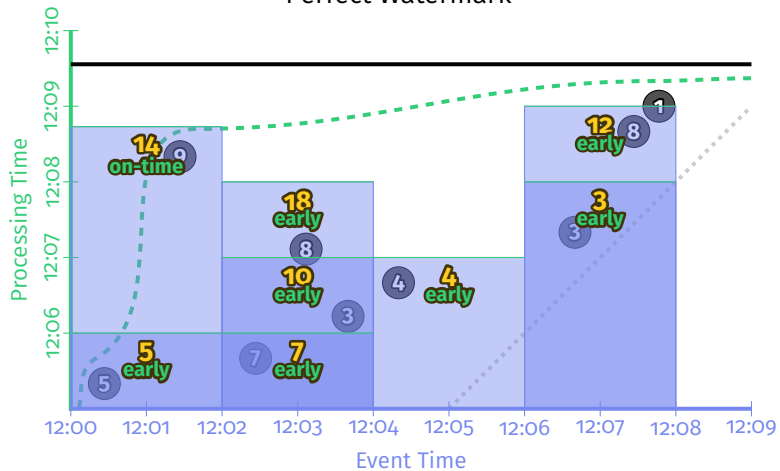
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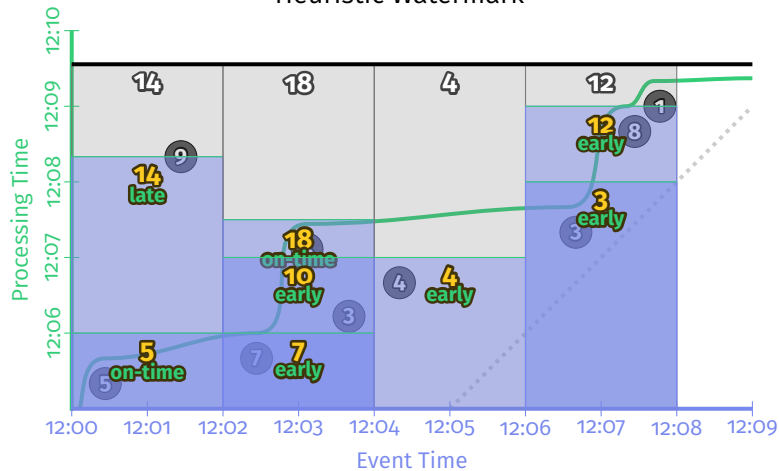
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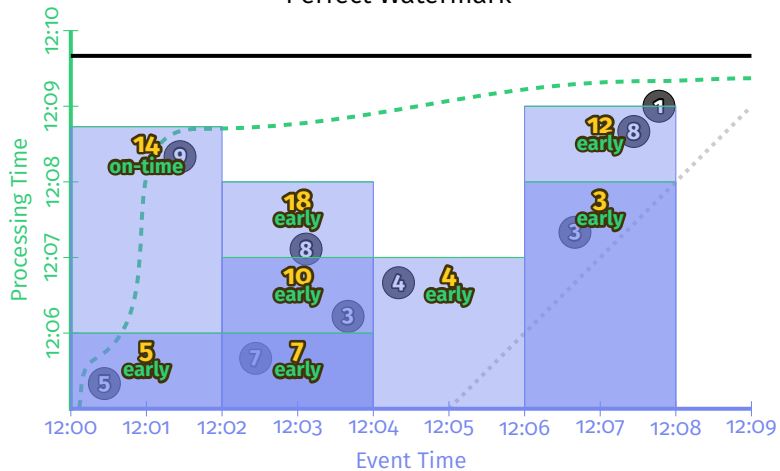
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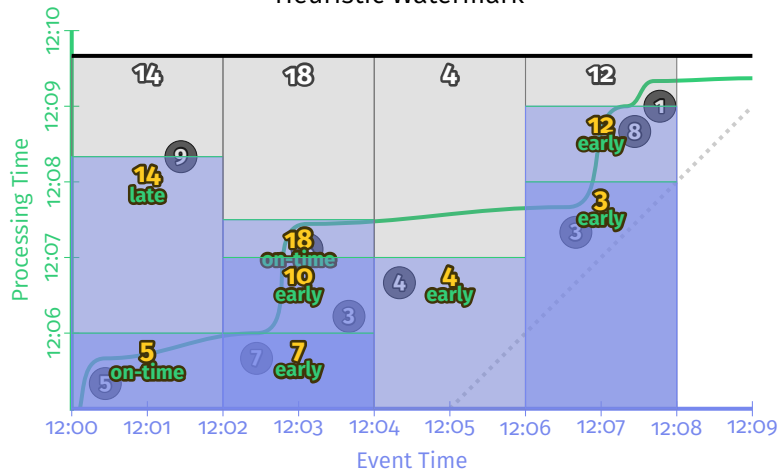
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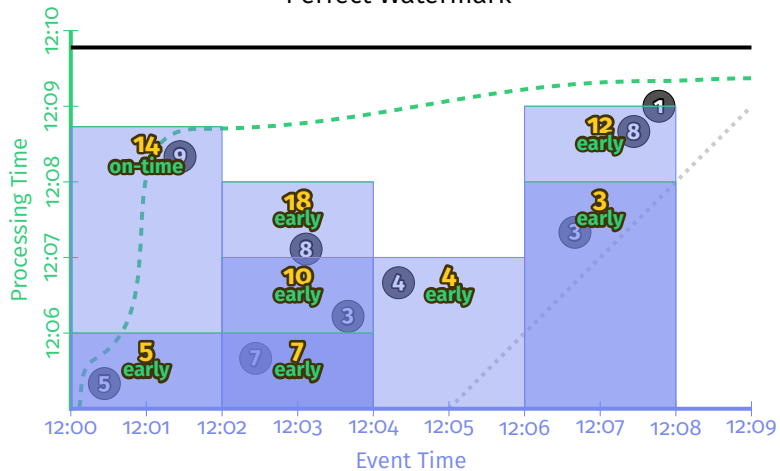
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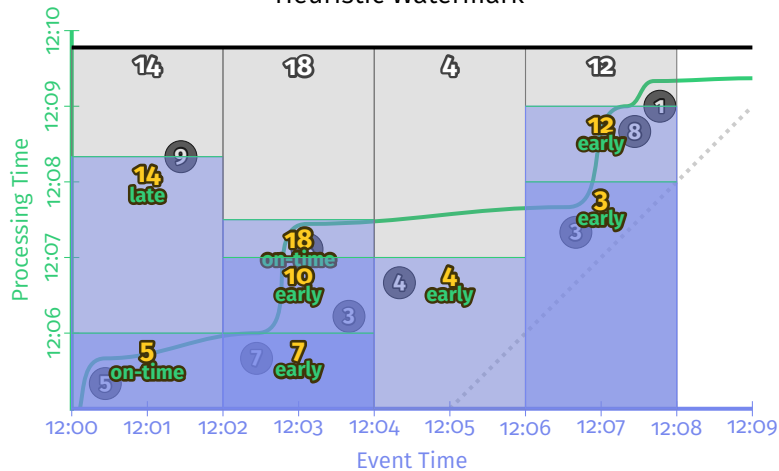
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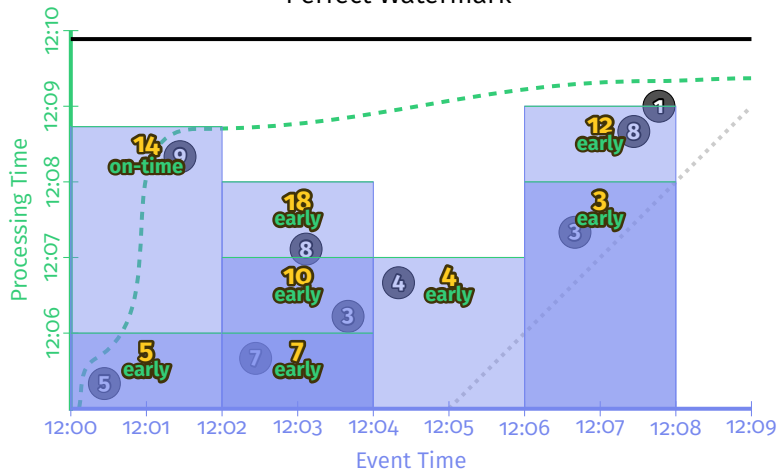
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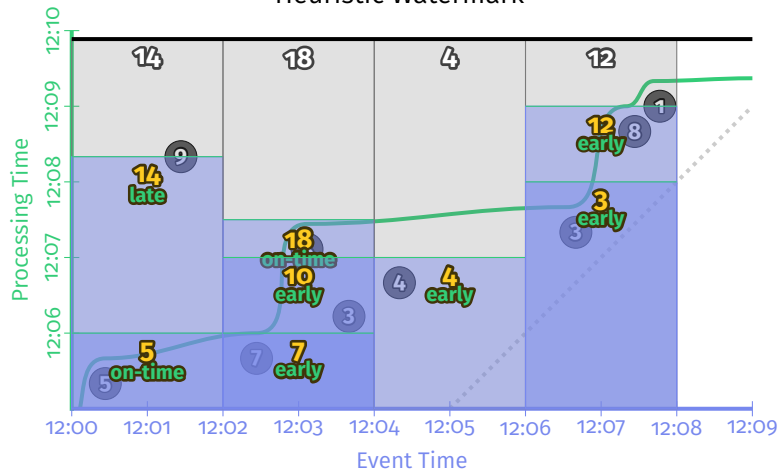
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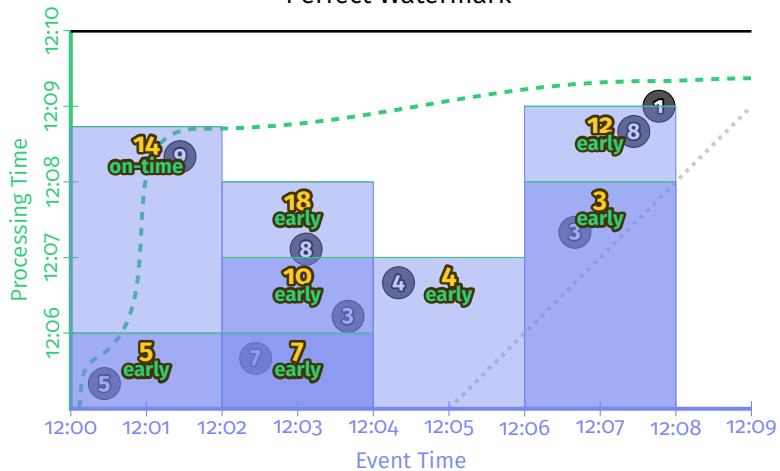
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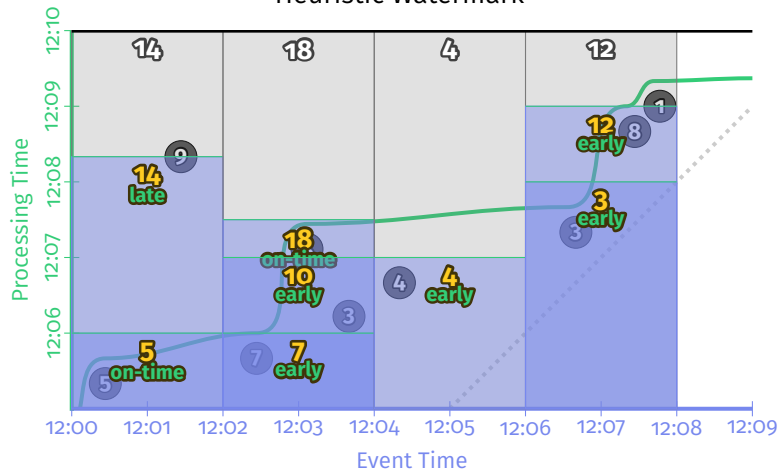
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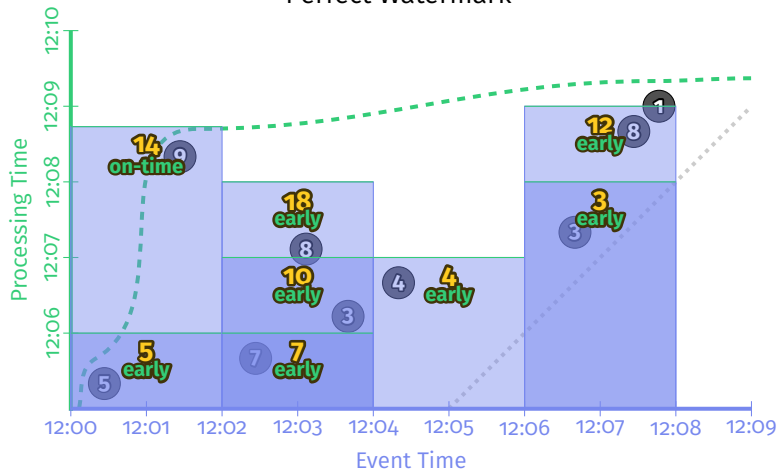
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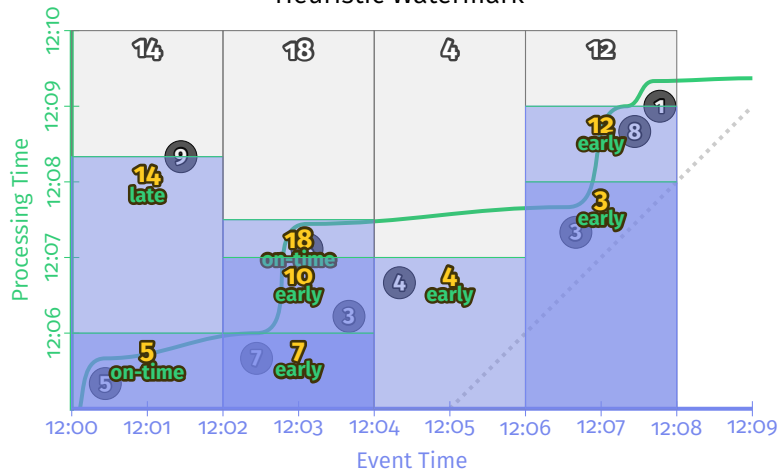
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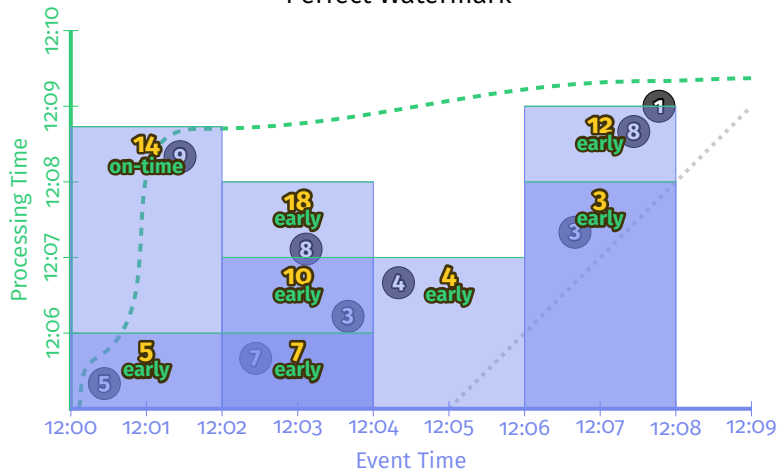
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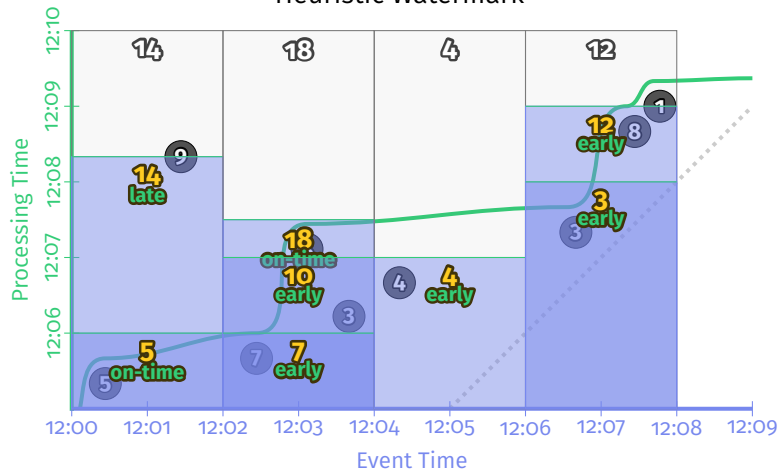
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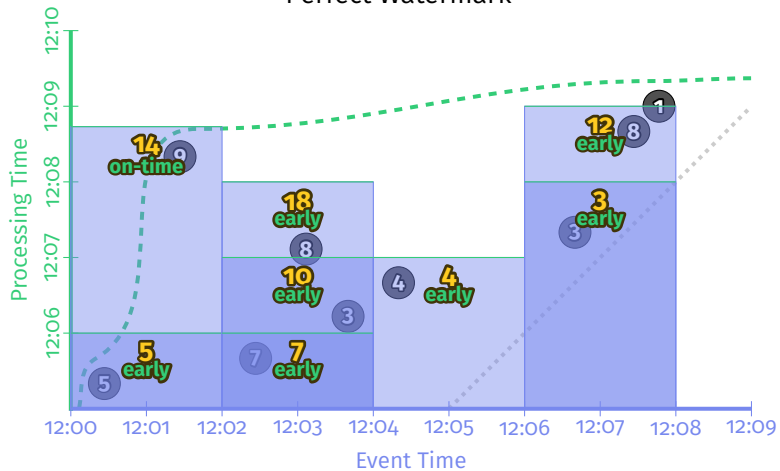
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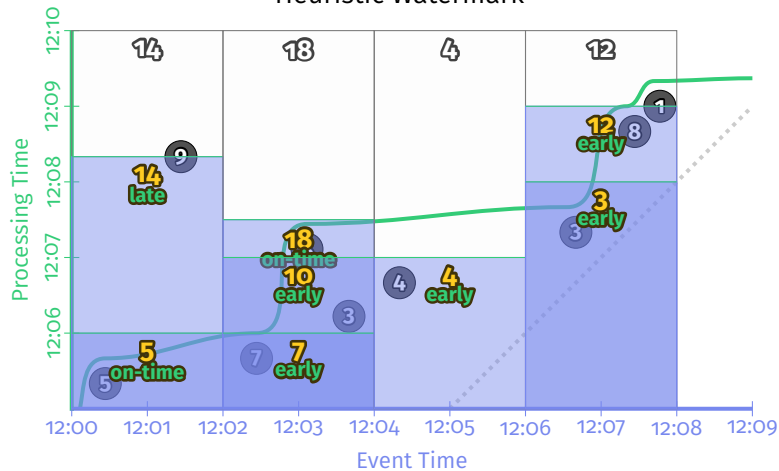
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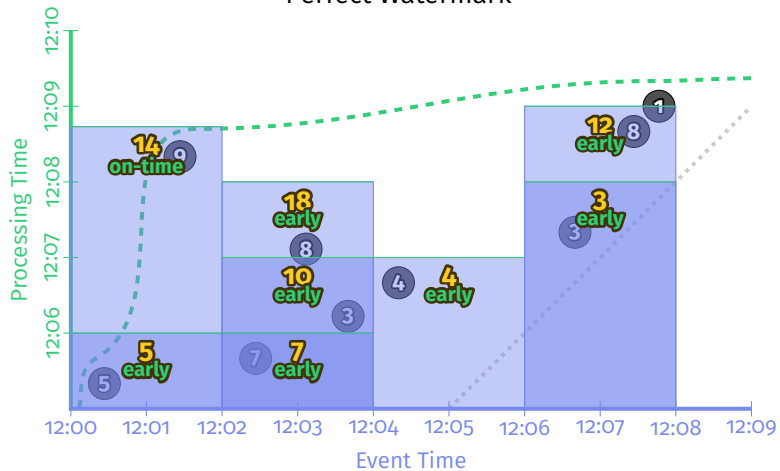
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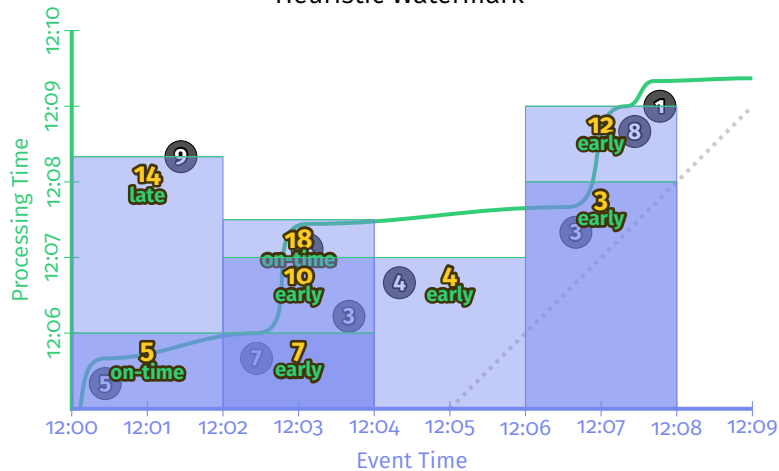
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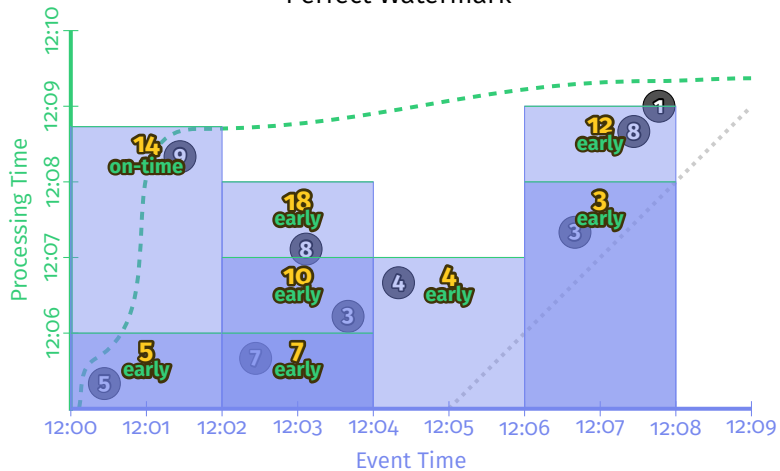
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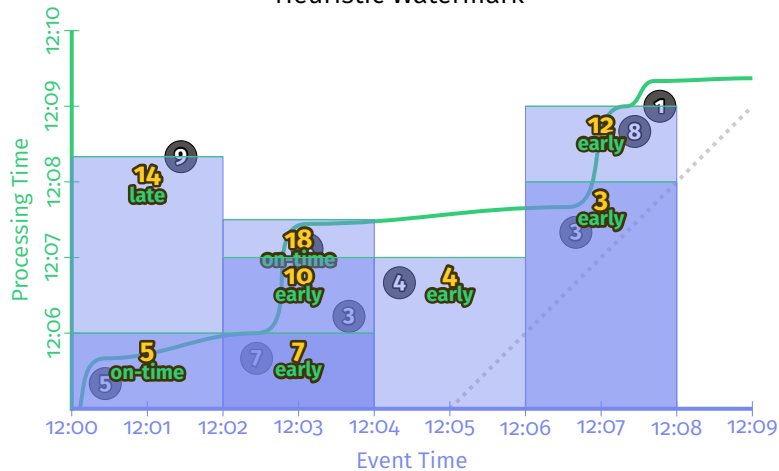
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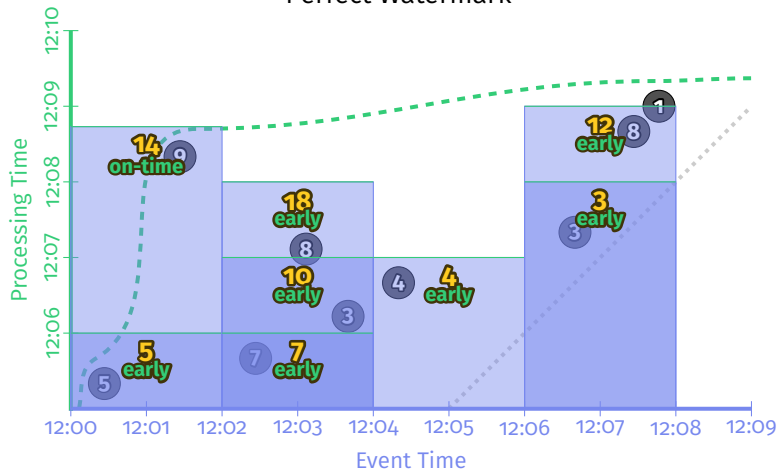
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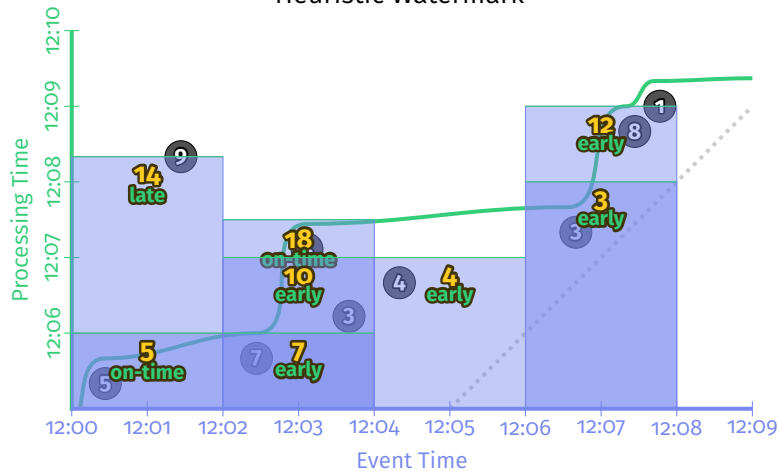


Perfect watermark:

Ideal watermark:



Heuristic Watermark

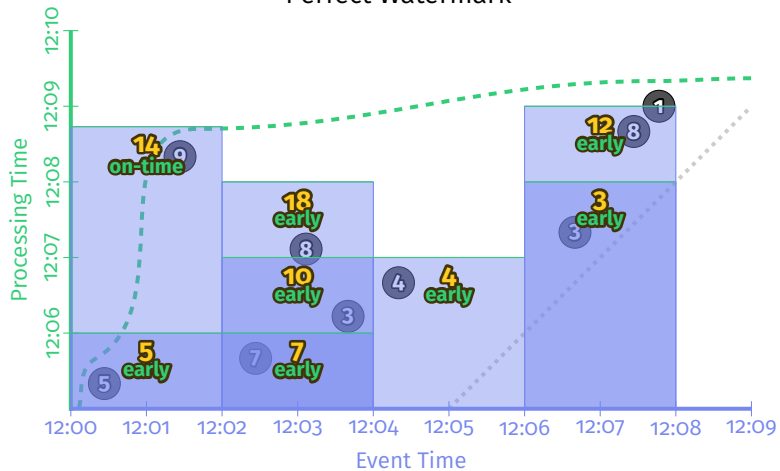


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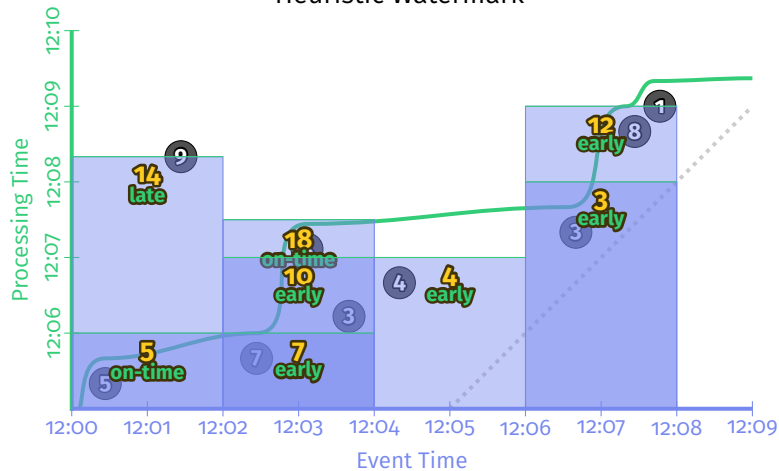
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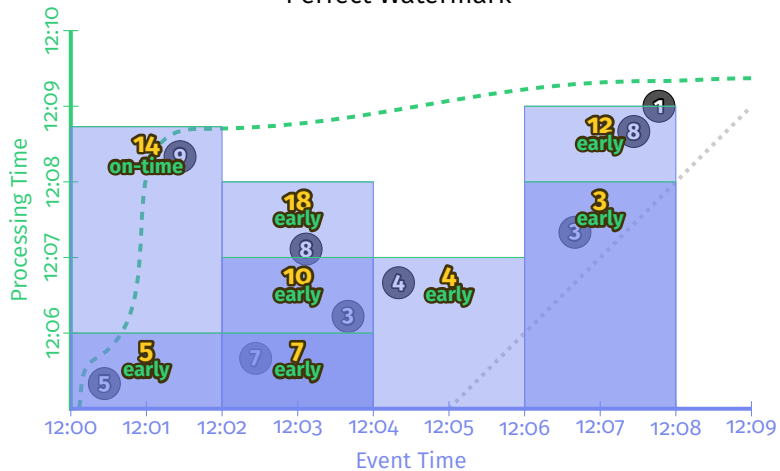
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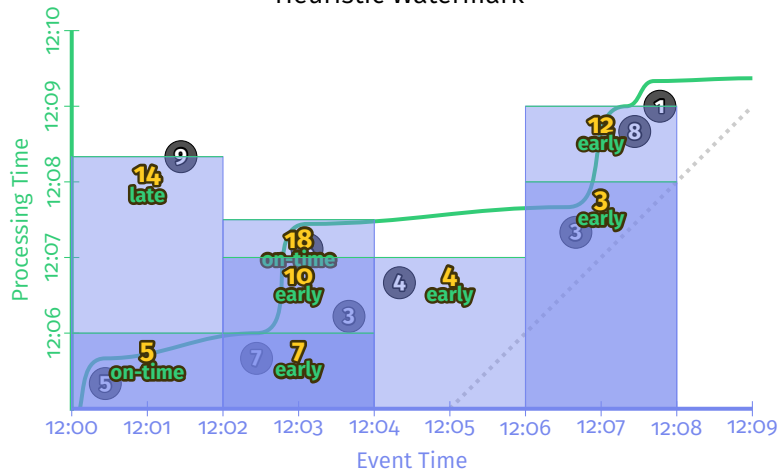
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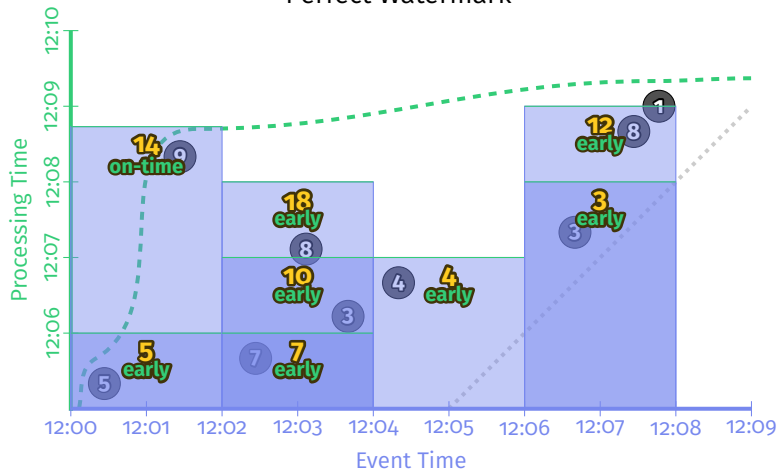
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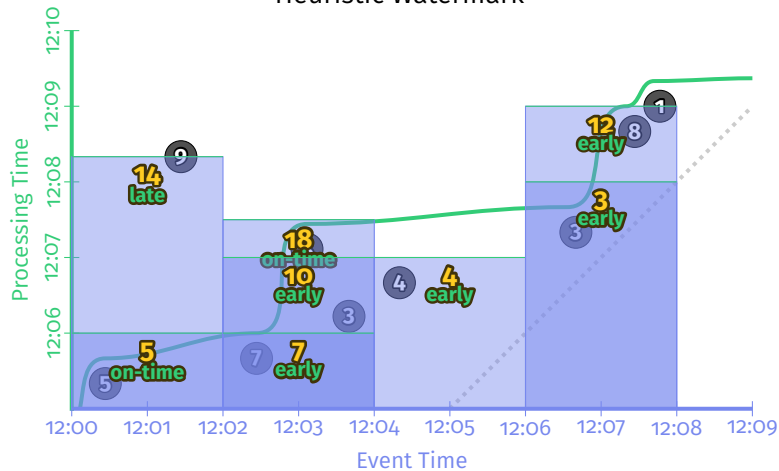


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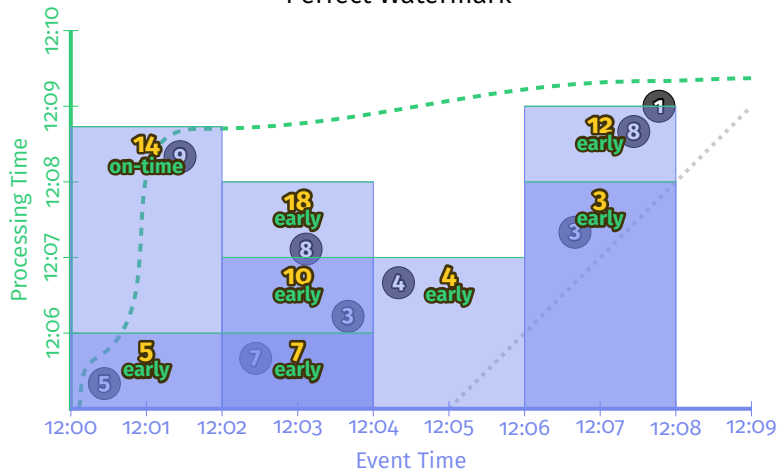


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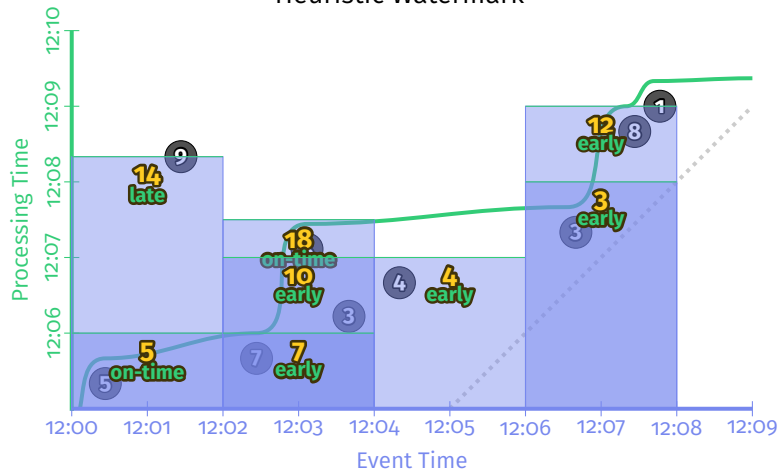
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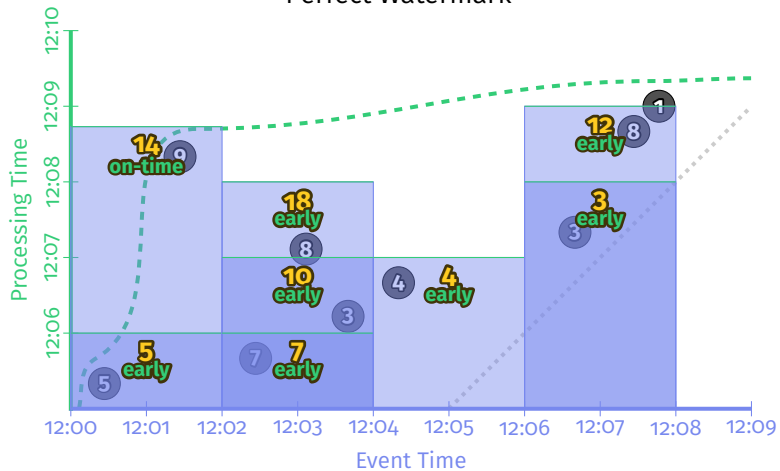
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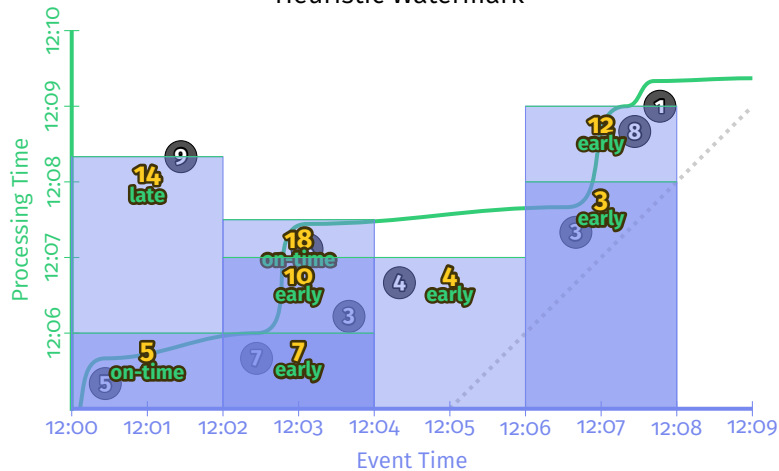
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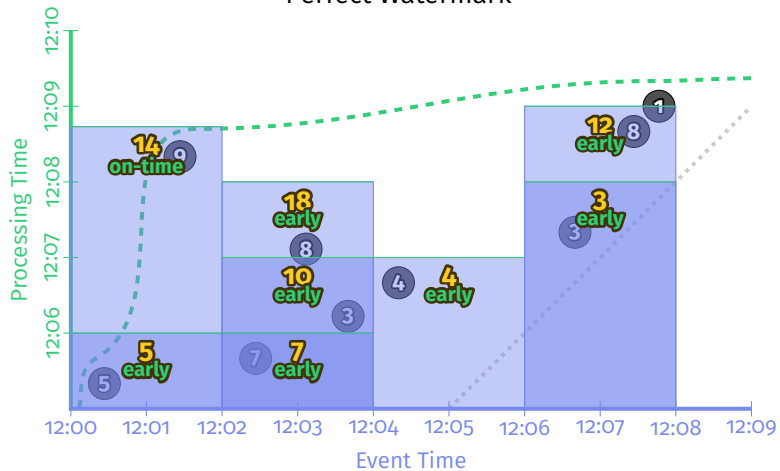
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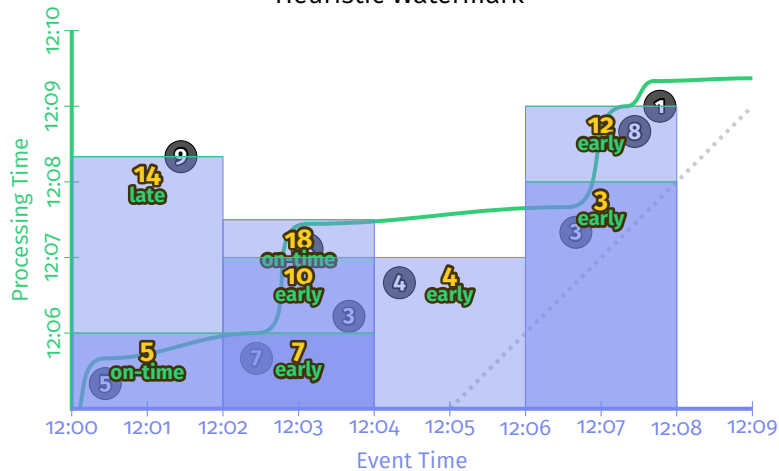


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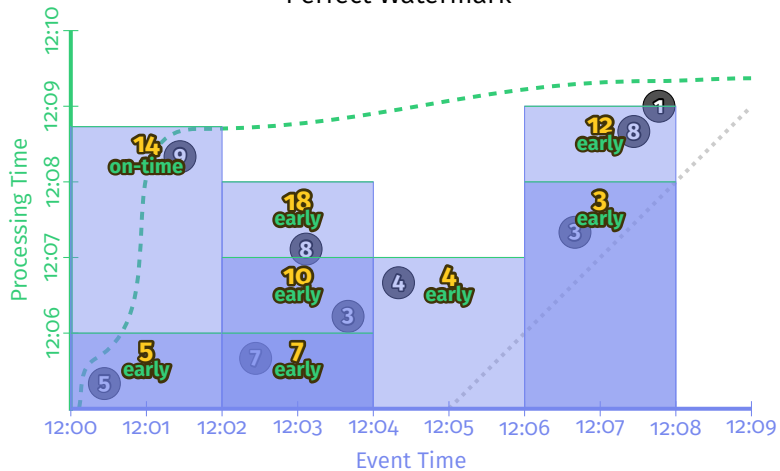
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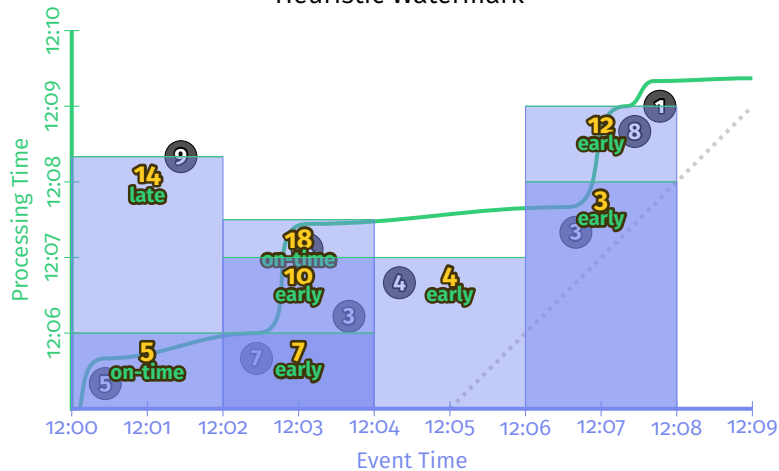
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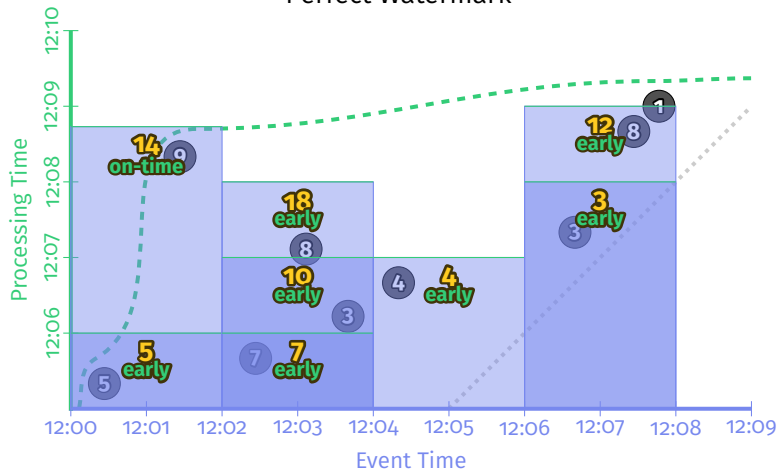
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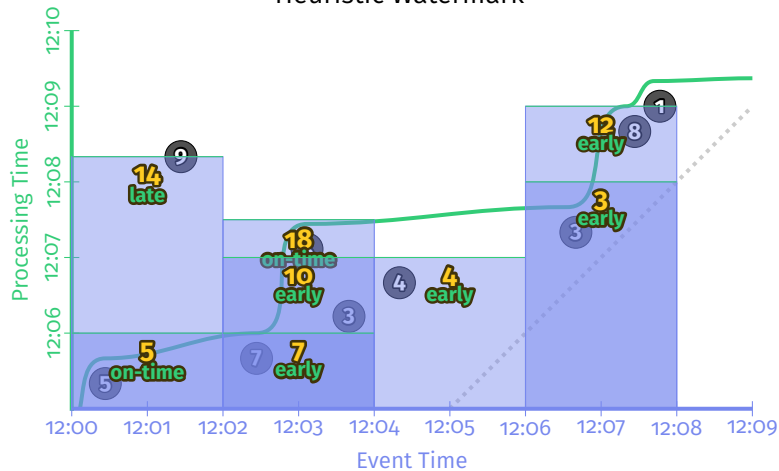
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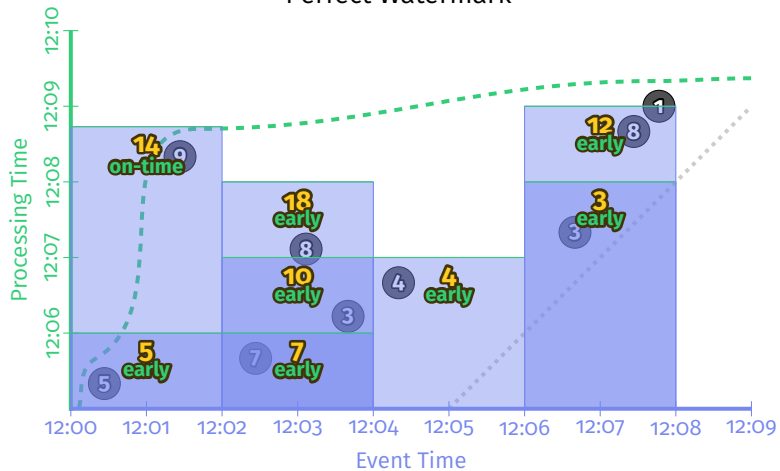
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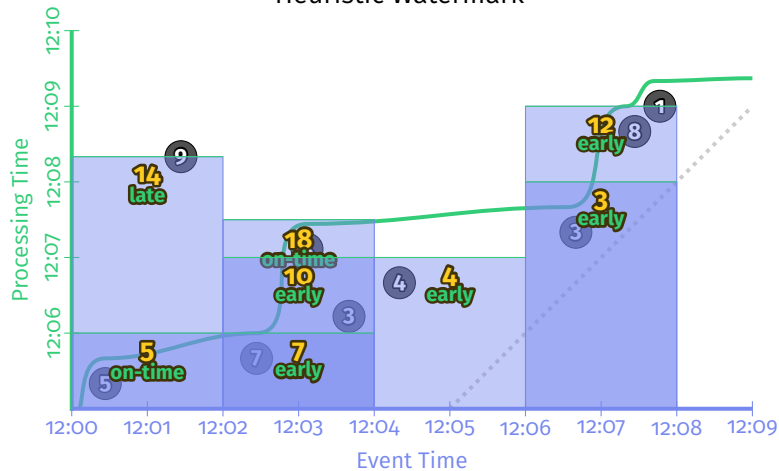


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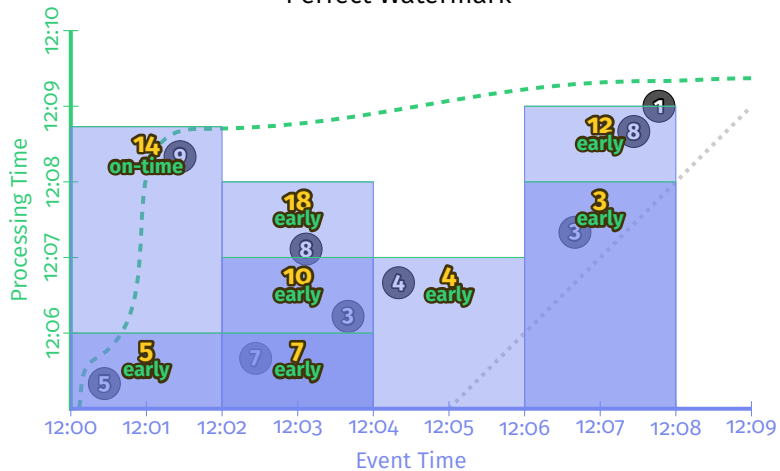
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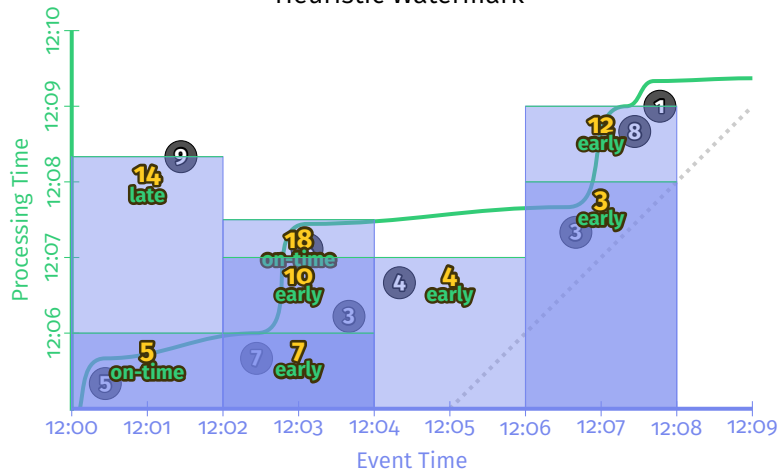
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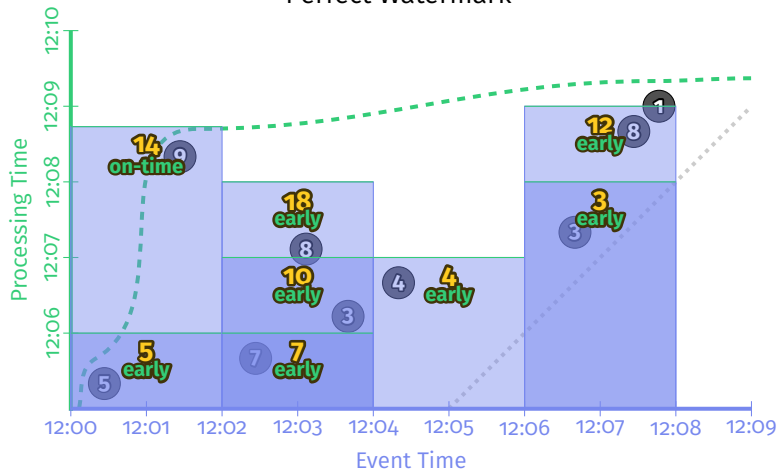
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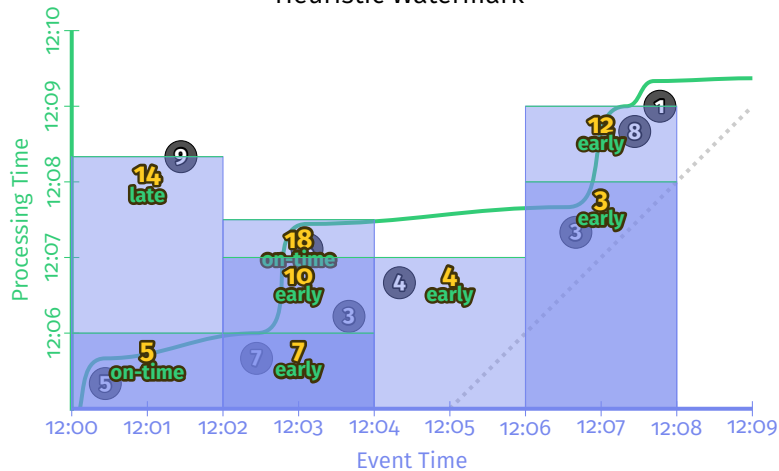
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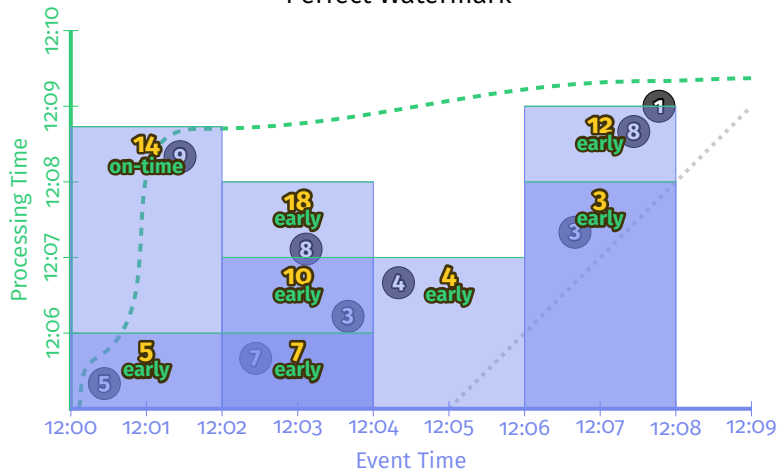
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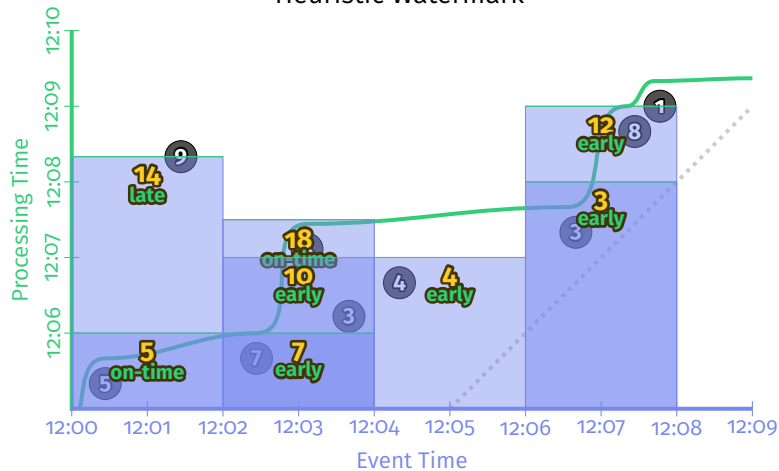


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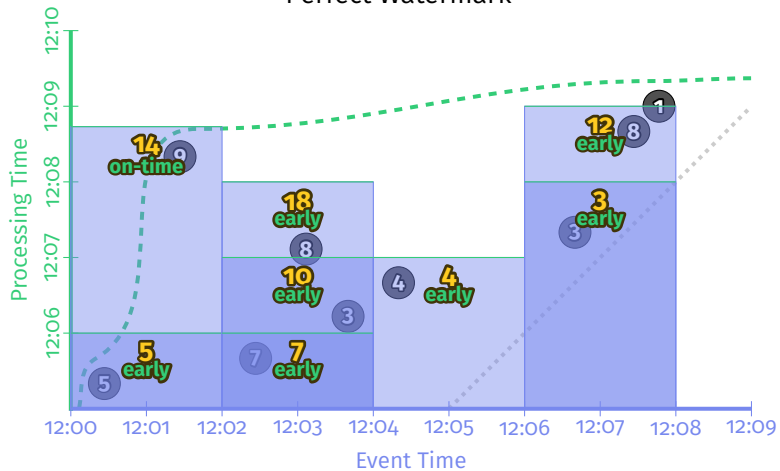
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Heuristic Watermark



Heuristic watermark: —
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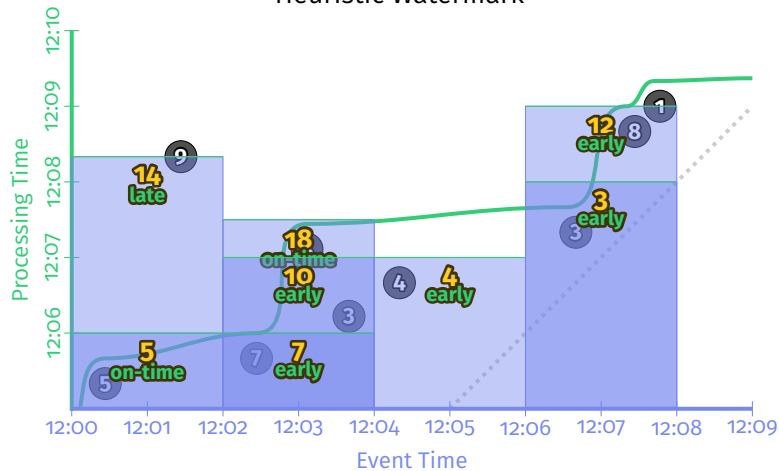
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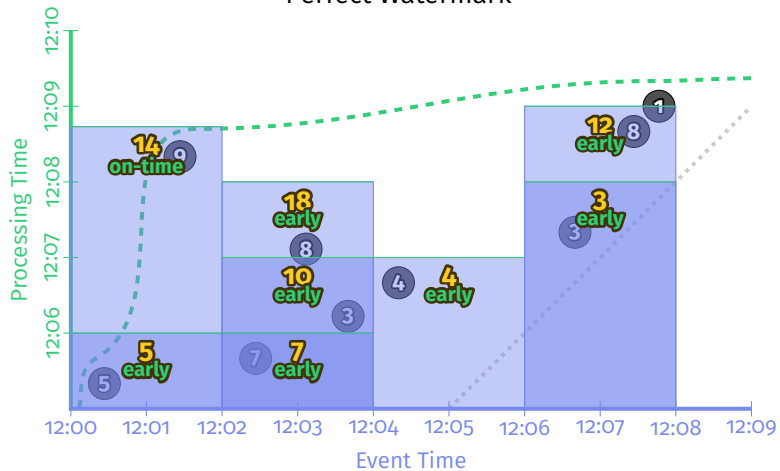
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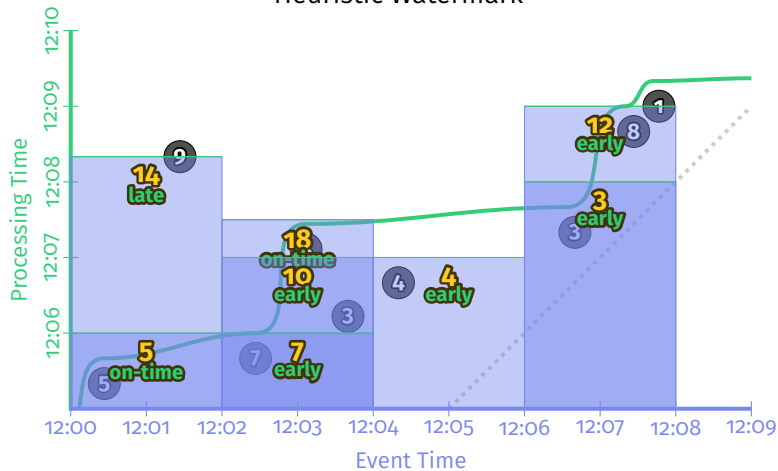
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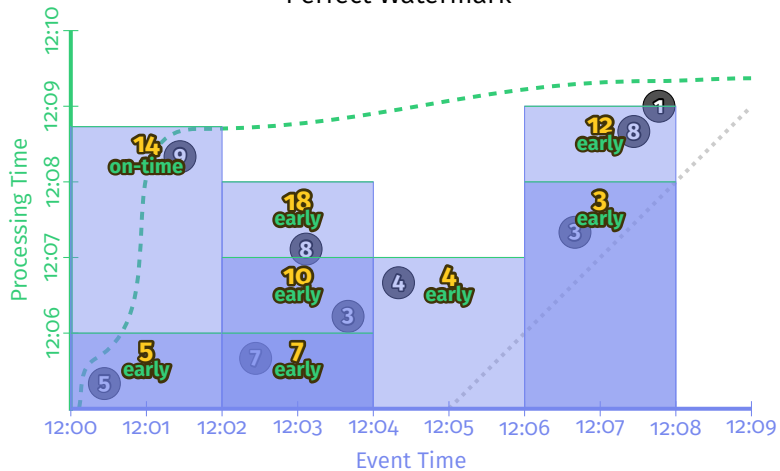
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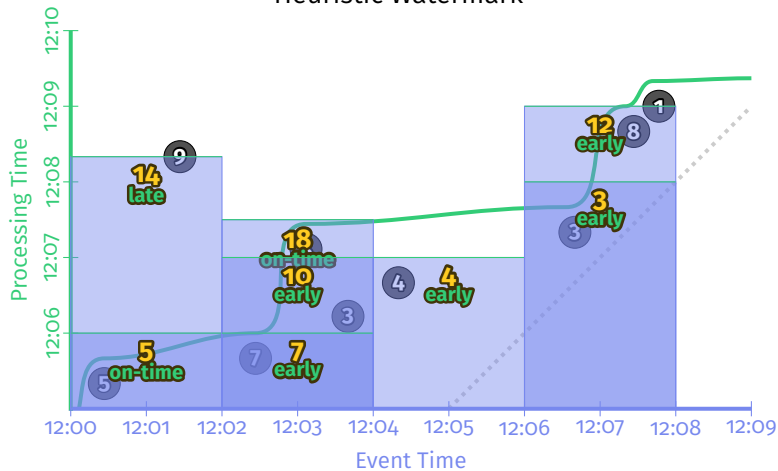
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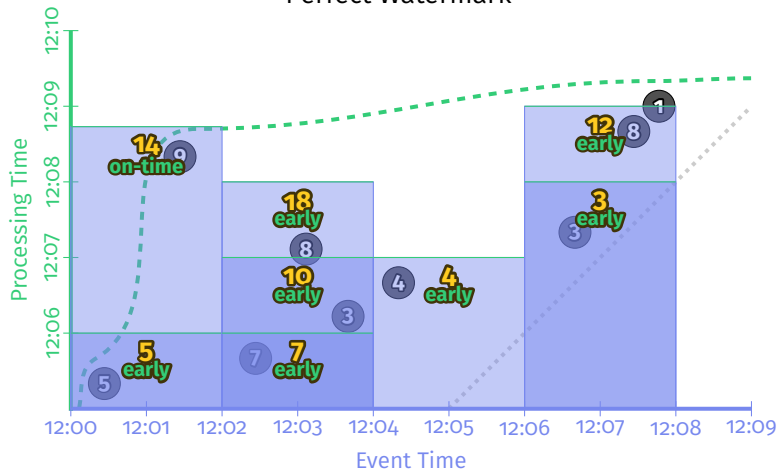
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Heuristic Watermark



Perfect Watermark



Heuristic Watermark

