



# A ZOOM FILTER FOR APPLAUSE AND LAUGHTER

Meeting 15.12.21



# Where we left off

Mistake:

$$tot\_transc * recall = tot\_pred * prec$$

## Practical Example

- average meeting length: 56min
- average laughter length during meeting: 2:06 min

5:03 -> 303s

2:06 -> 126s

303s \* 0.2044 = ~62s

126s \* 0.3730 = ~46s

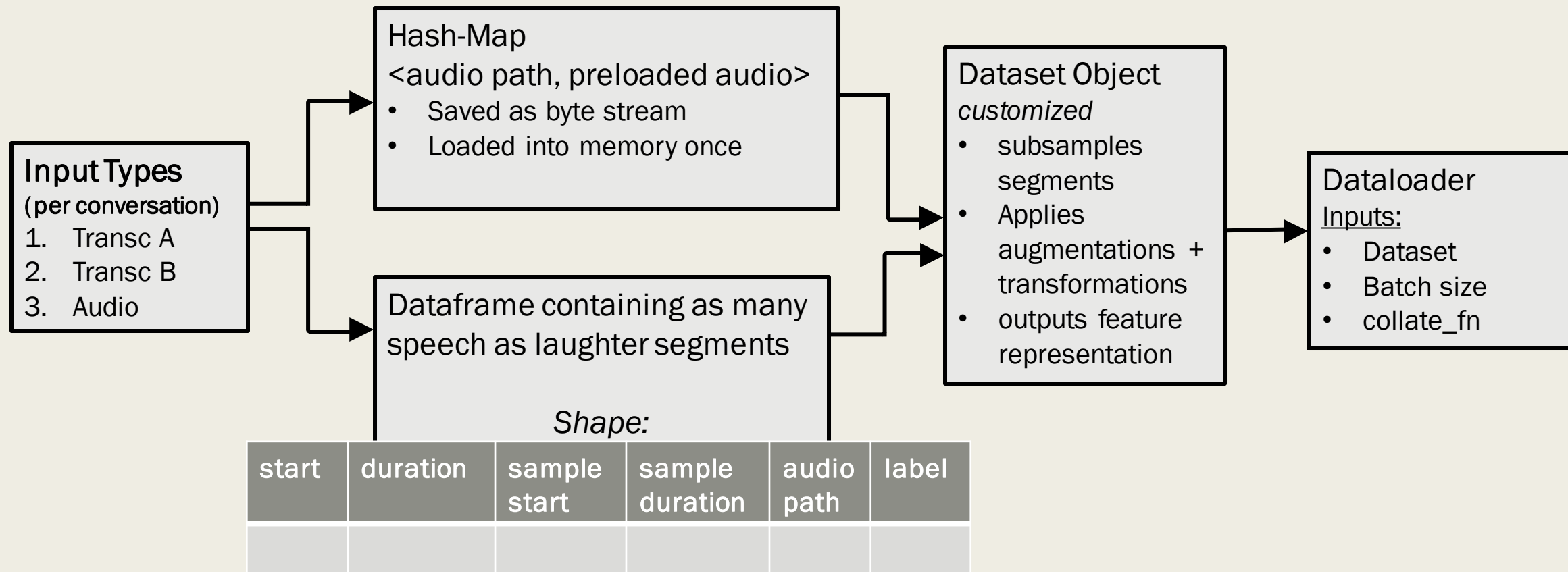
	new method		Laughter in [min:sec]		
thresh old	precision	recall	predicted	actual laughter	noise
0.2	20.44%	37.40%	5:03 min	1:02 min	4:01 min
0.4	53.84%	20.68%	1:00 min	0:33 min	0:27 min
0.6	79.68%	8.92%	0:14 min	0:11 min	0:03 min
0.8	90.44%	3.22%	0:04 min	0:04 min	0:00 min

# RTF – Real Time Factor

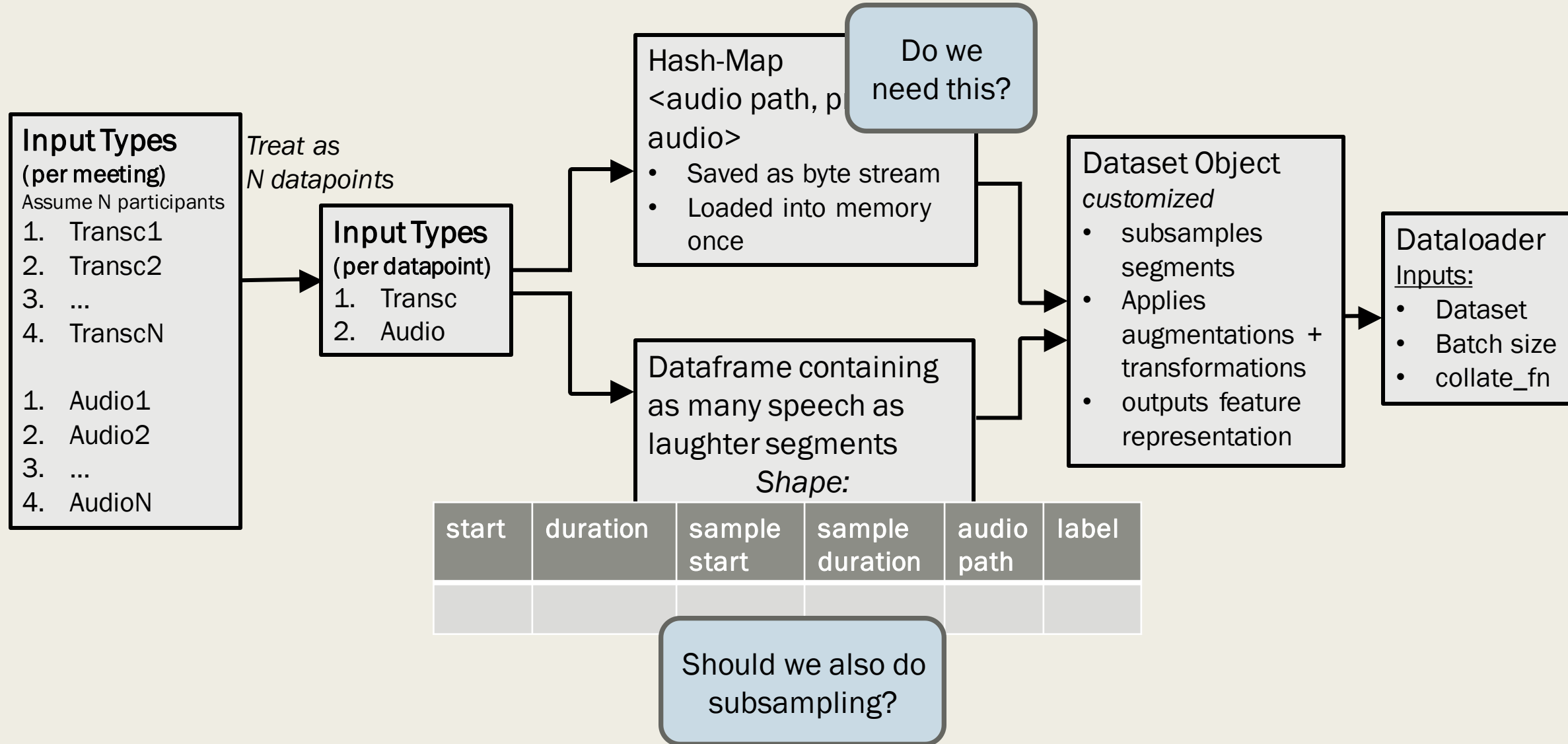
- Calculated RTF of current system on different machines
  - Reference value for future models
  - $RTF = (\text{time to process the data}) / (\text{duration of the data})$

Audio Duration	Iterations run	Average RTF
CPU - i5-6500 CPU @ 3.20GHz		
3s	20	1.31
30s	20	1.41
120s	10	1.49
CPU AT - AMD EPYC 7302 16-Core Processor		
3s	20	0.63
30s	20	0.84
120s	10	0.81
GPU AT - NVIDIA GeForce GTX 1060 6GB		
3s	20	0.14
30s	20	0.10
120s	20	0.10
300s	10	0.10

# Data Pipeline used by Gillick et al.



# Data Pipeline for our project



# Questions about the implementation

- What's the point of global step?
  - why use this and a while loop instead of epochs?
  - train\_df is created every time – seems inefficient
- collate\_fn

# Next steps

- Correct Evaluation Method
- Create Data Pipeline
- Train Gillick et al.'s Model on ICSI (subset?)
- Train and evaluate more efficient models