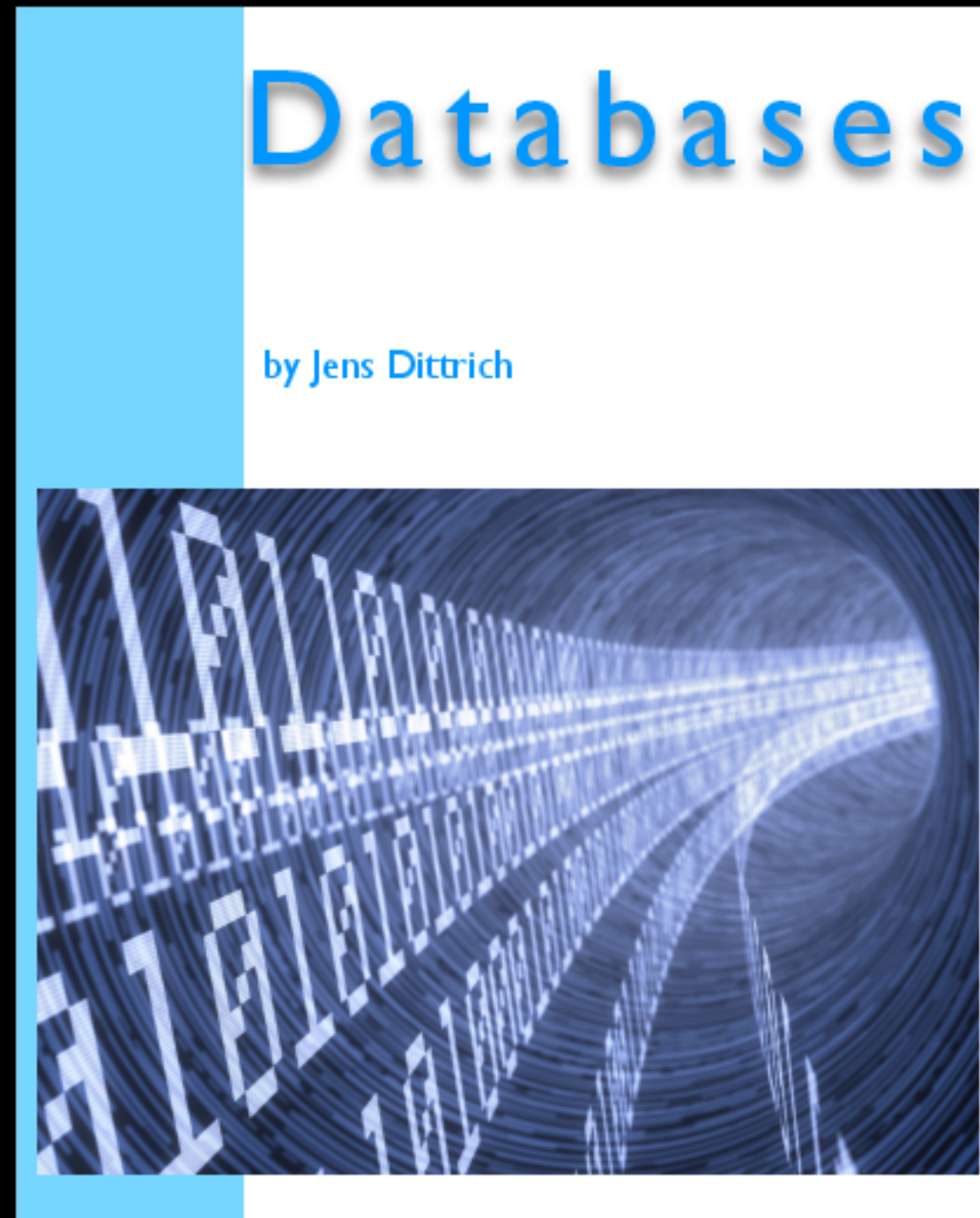


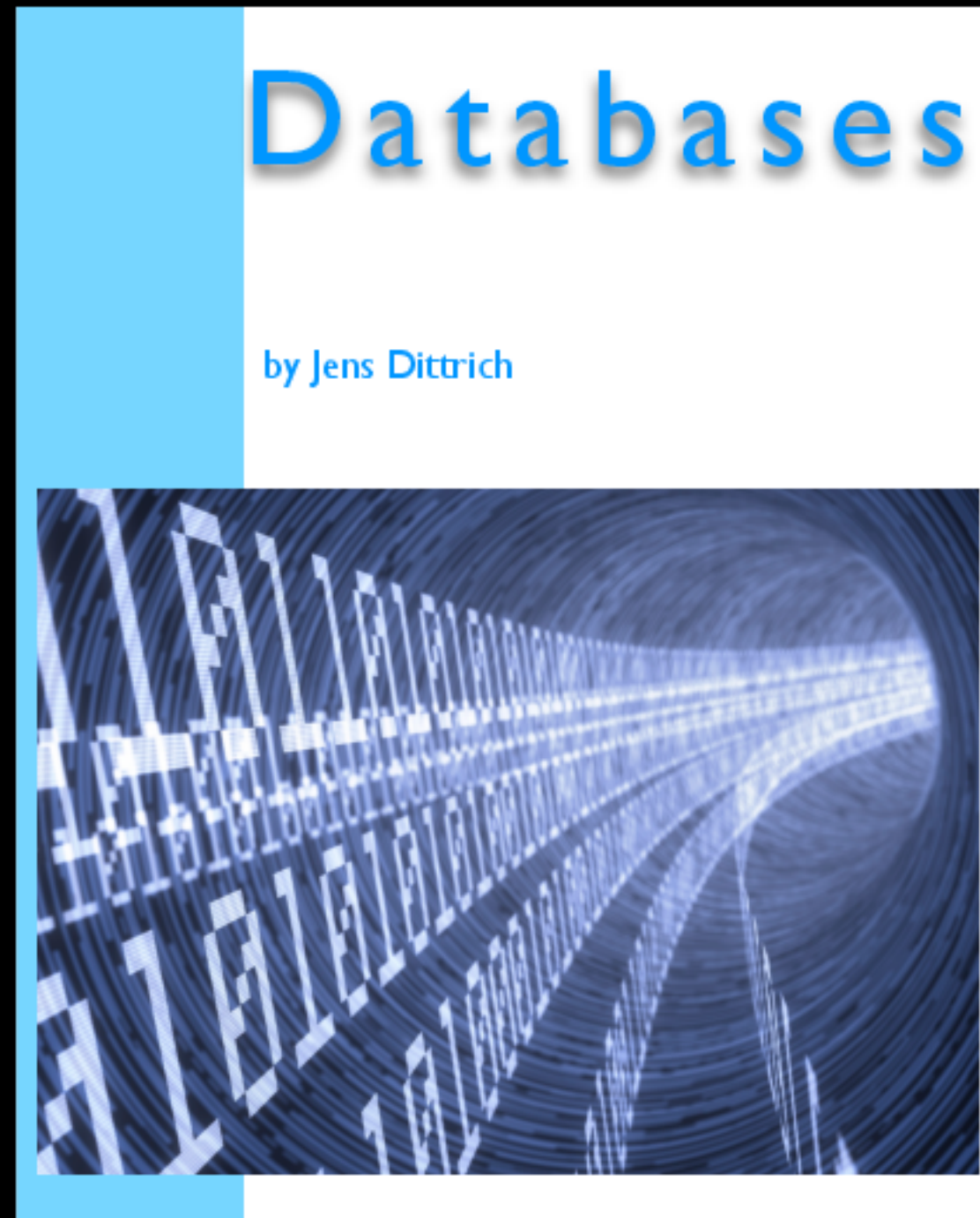
# Publishing a Book

1st edition



# Publishing a Book

1st edition

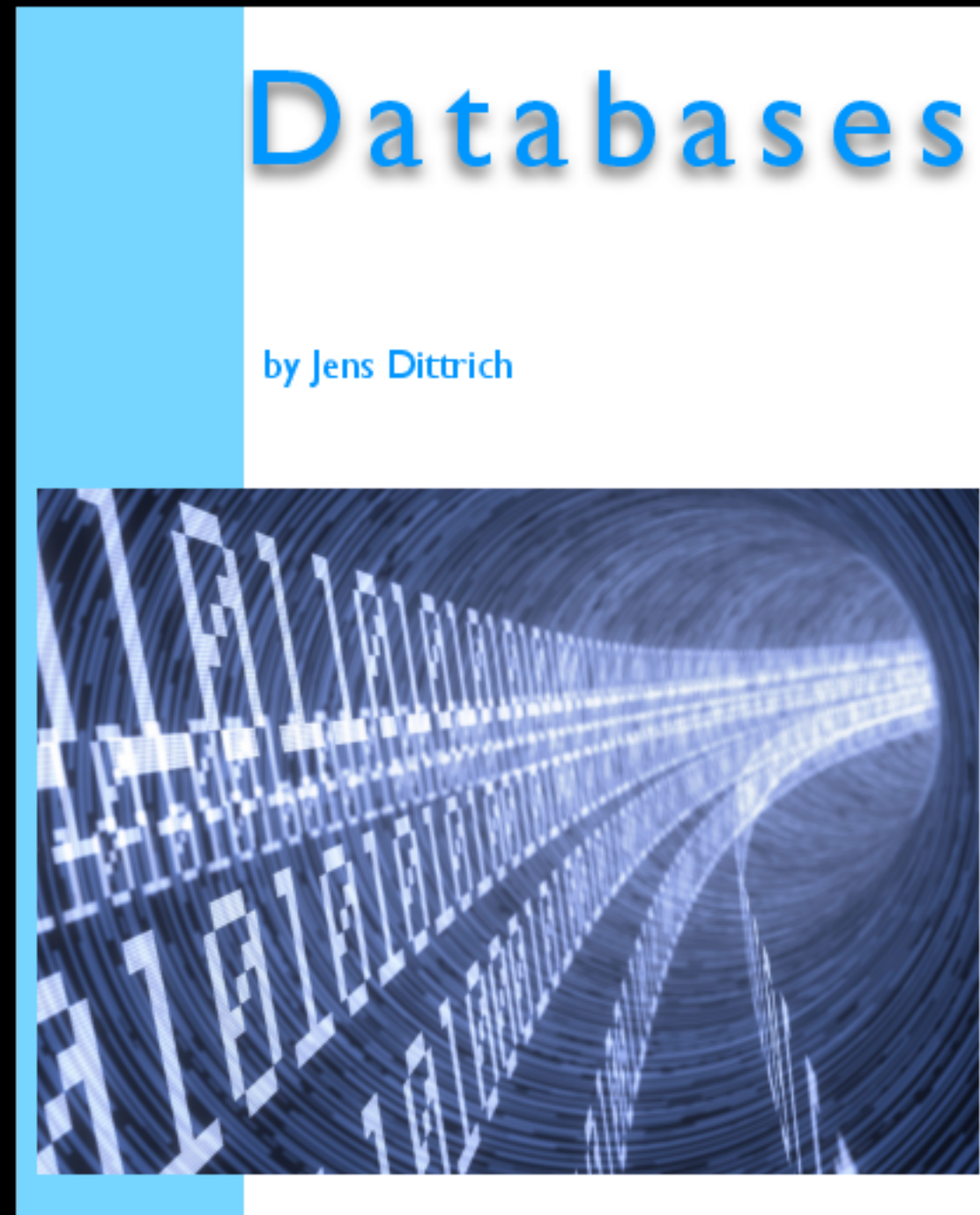


changes:



# Publishing a Book

1st edition



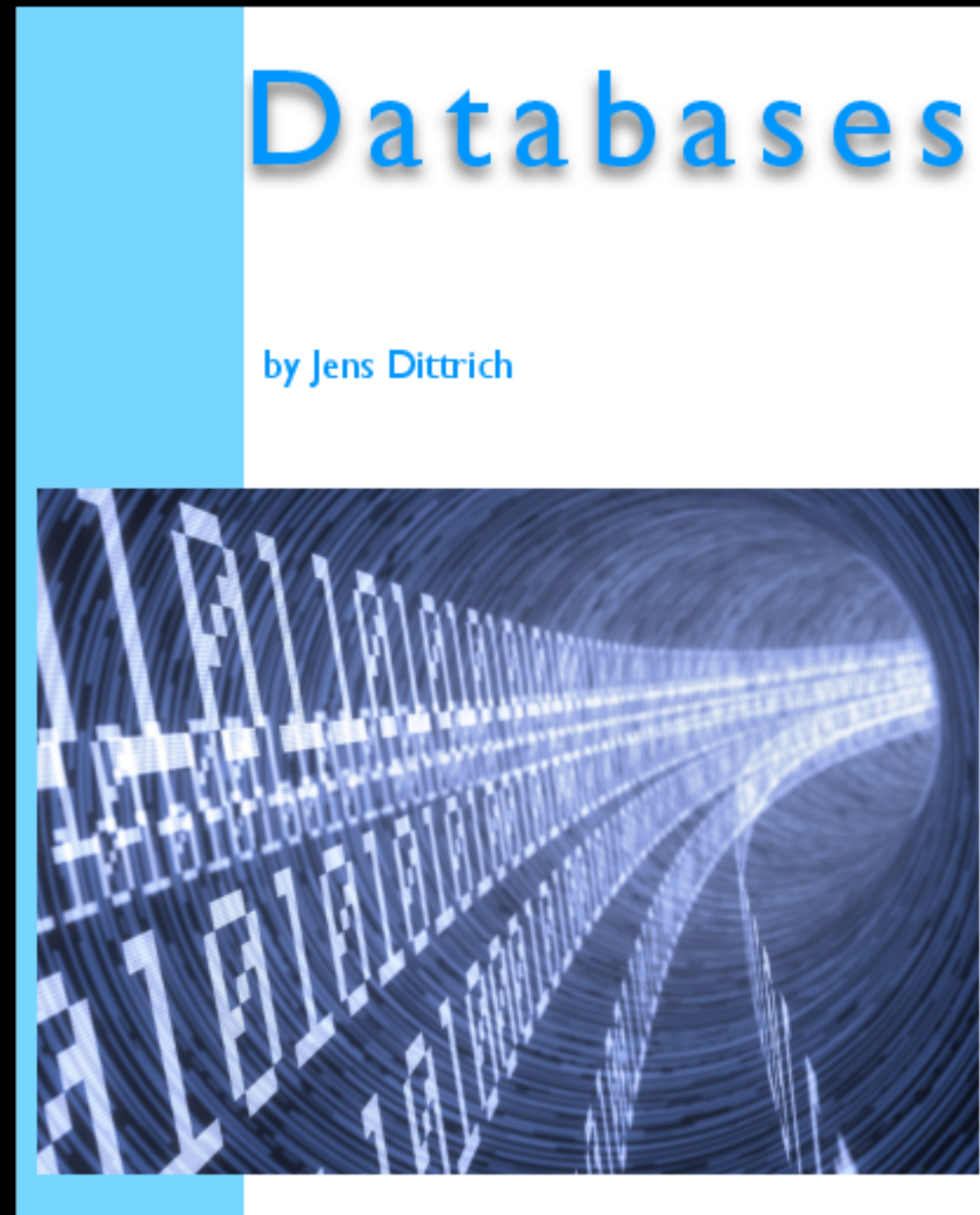
changes:

page 23:  
“datbase” → “database”



# Publishing a Book

1st edition



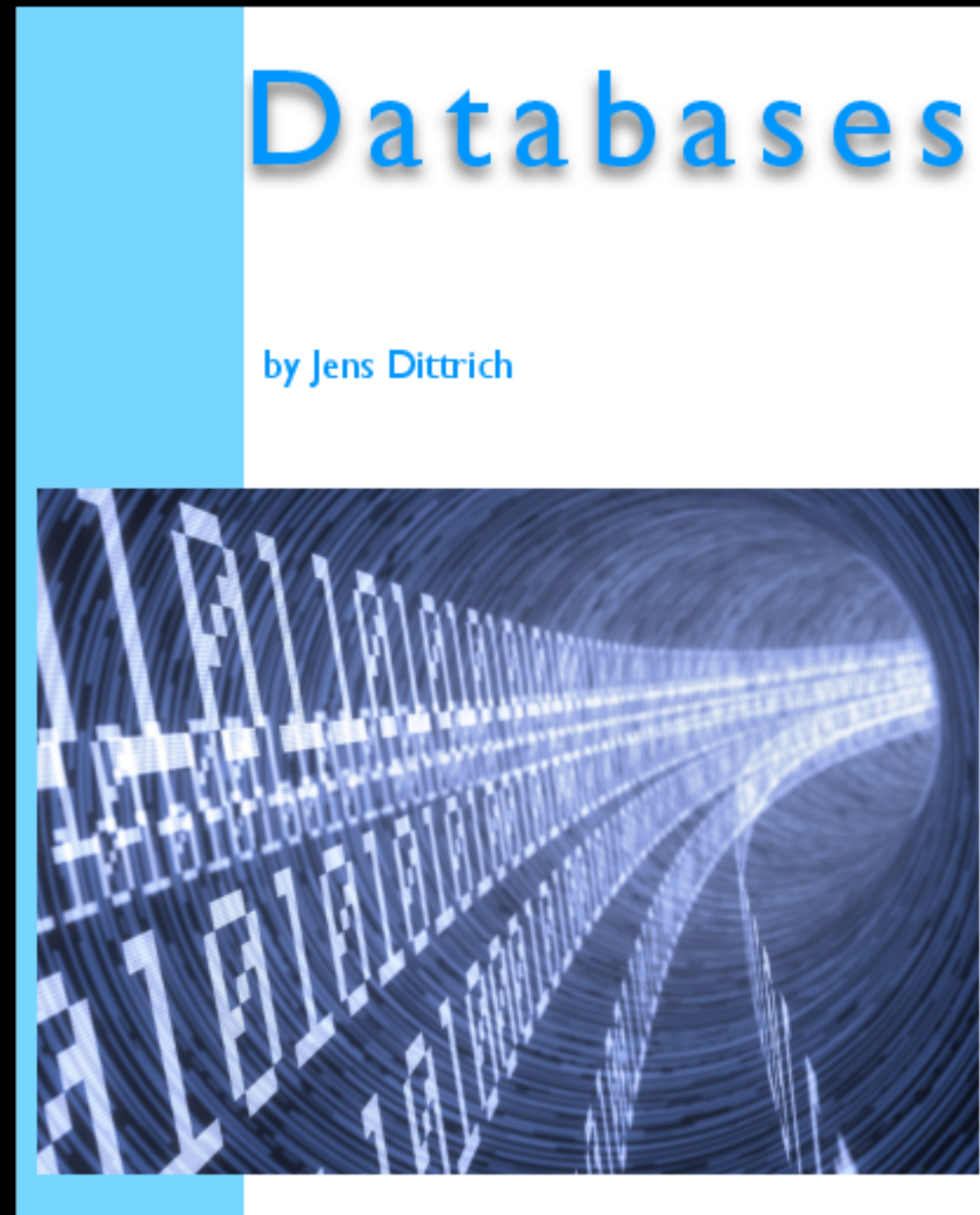
changes:

page 23:  
“datbase” → “database”  
page 345:  
“idex” → “index”



# Publishing a Book

1st edition



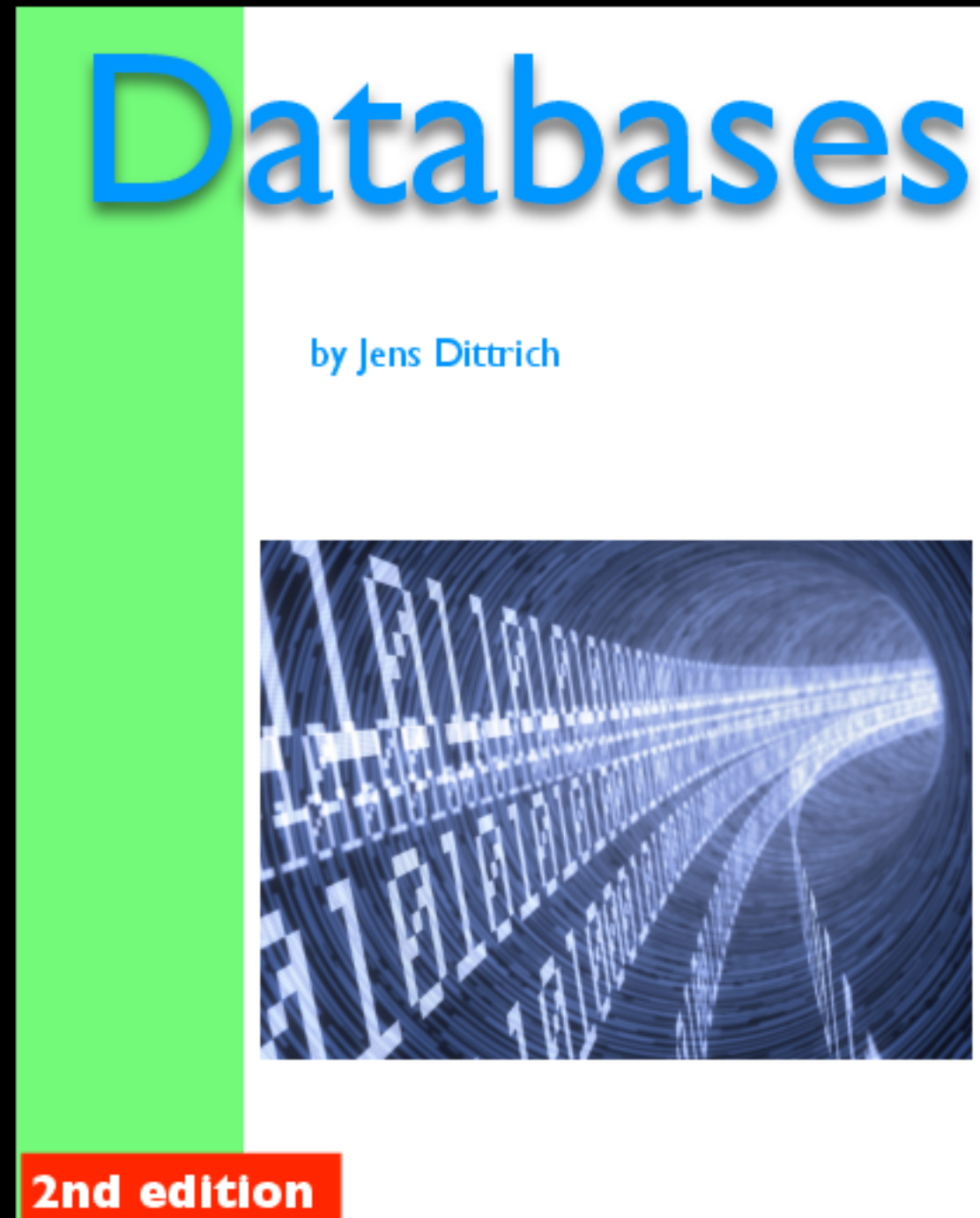
changes:

page 23:  
“datbase” → “database”  
page 345:  
“idex” → “index”  
page 77:  
“idex” → “index”

2nd edition

# Create a 2nd Edition

2nd edition

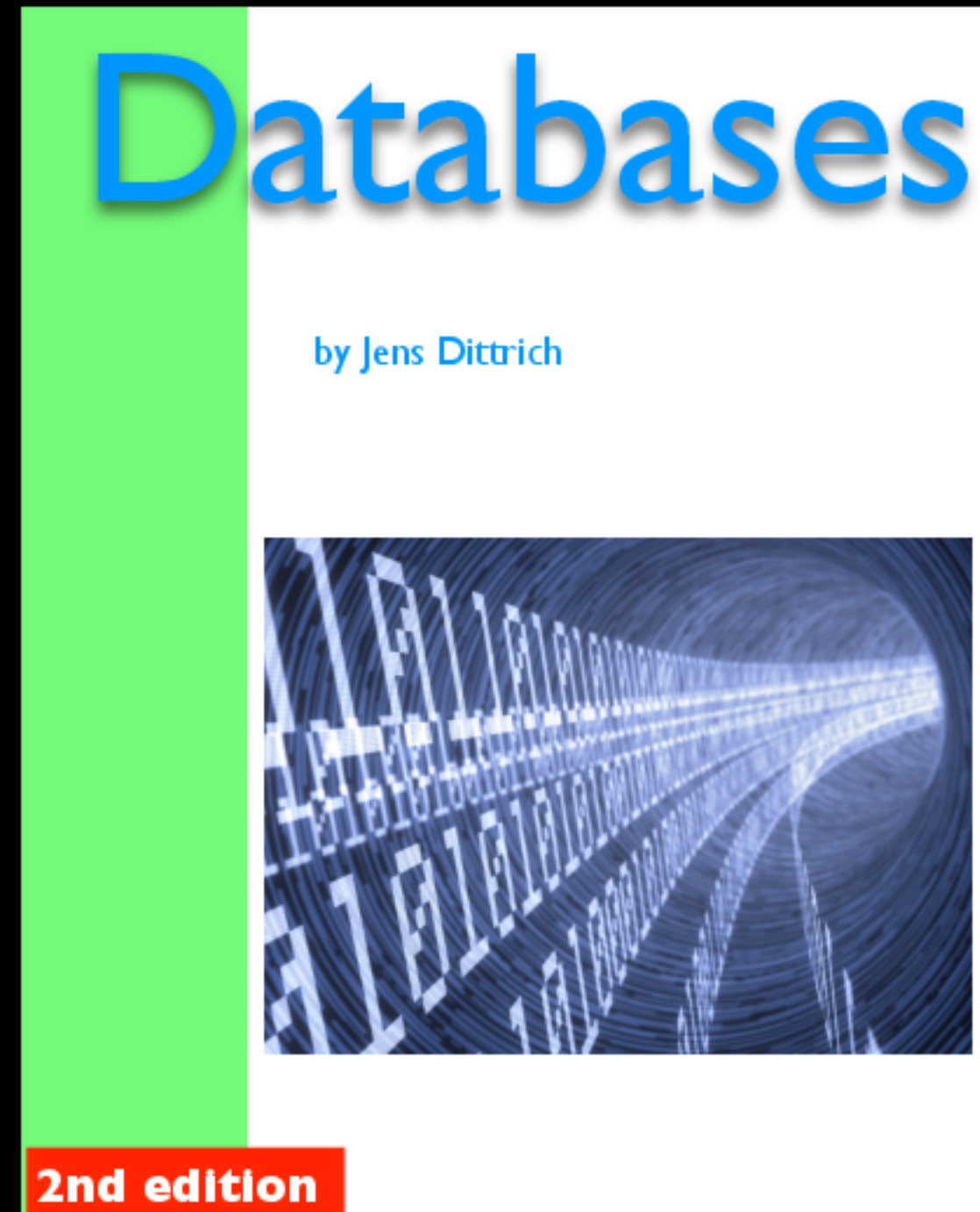


changes:



# Create a 2nd Edition

2nd edition



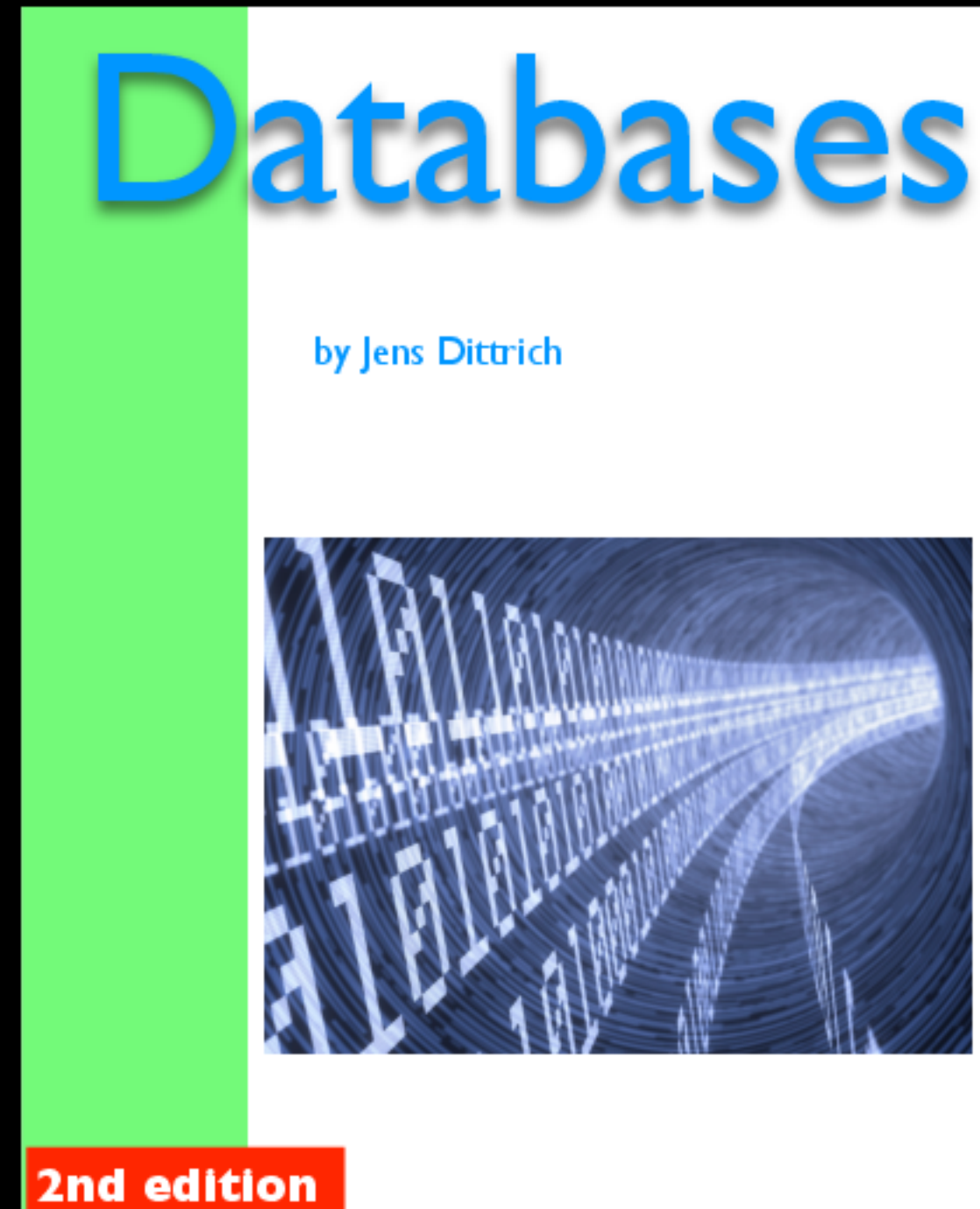
changes:

page 75:  
“kamera” → “camera”



# Create a 2nd Edition

2nd edition



changes:

page 75:

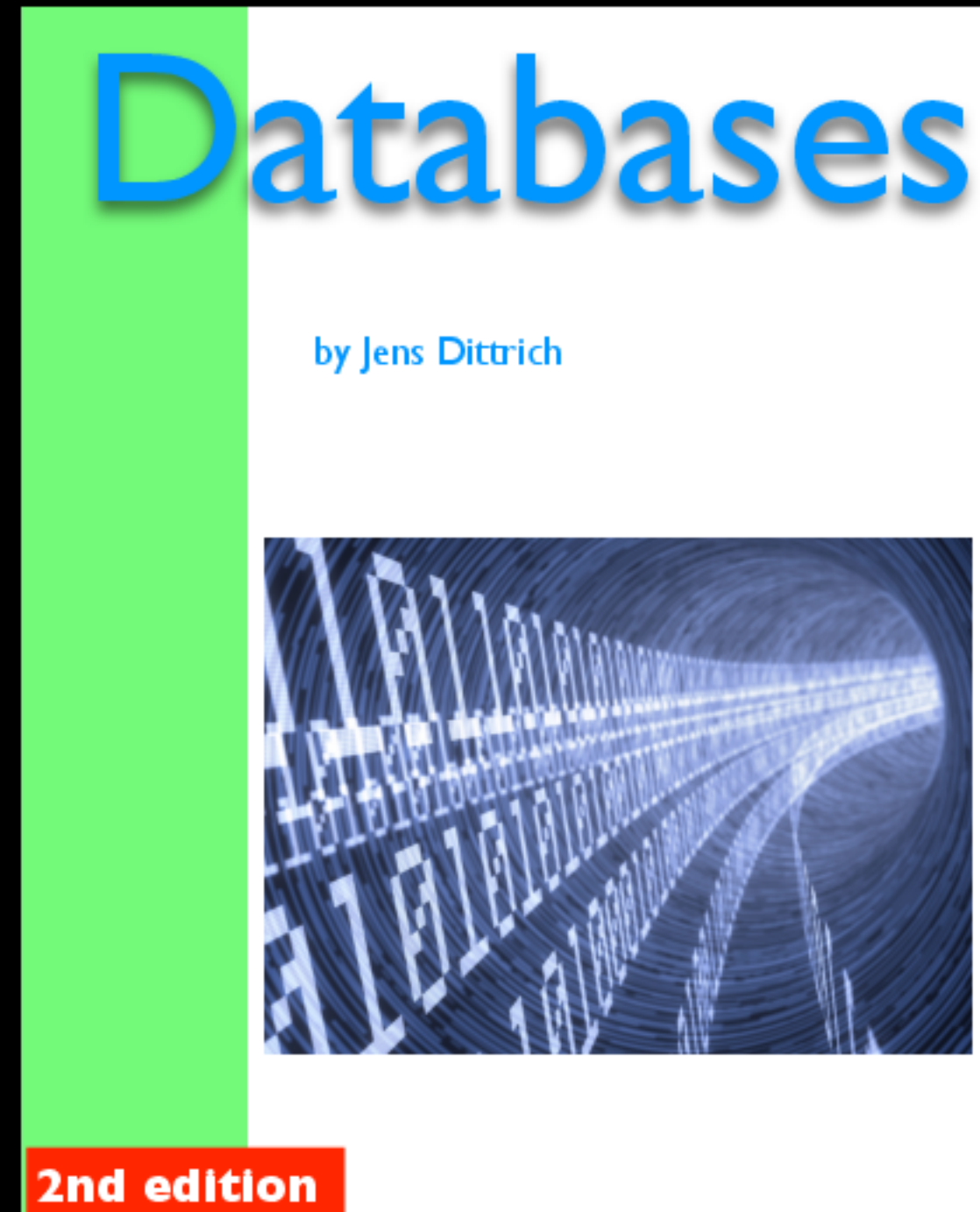
“kamera” → “camera”

page 143:

“big date” → “big data”

# Create a 2nd Edition

2nd edition

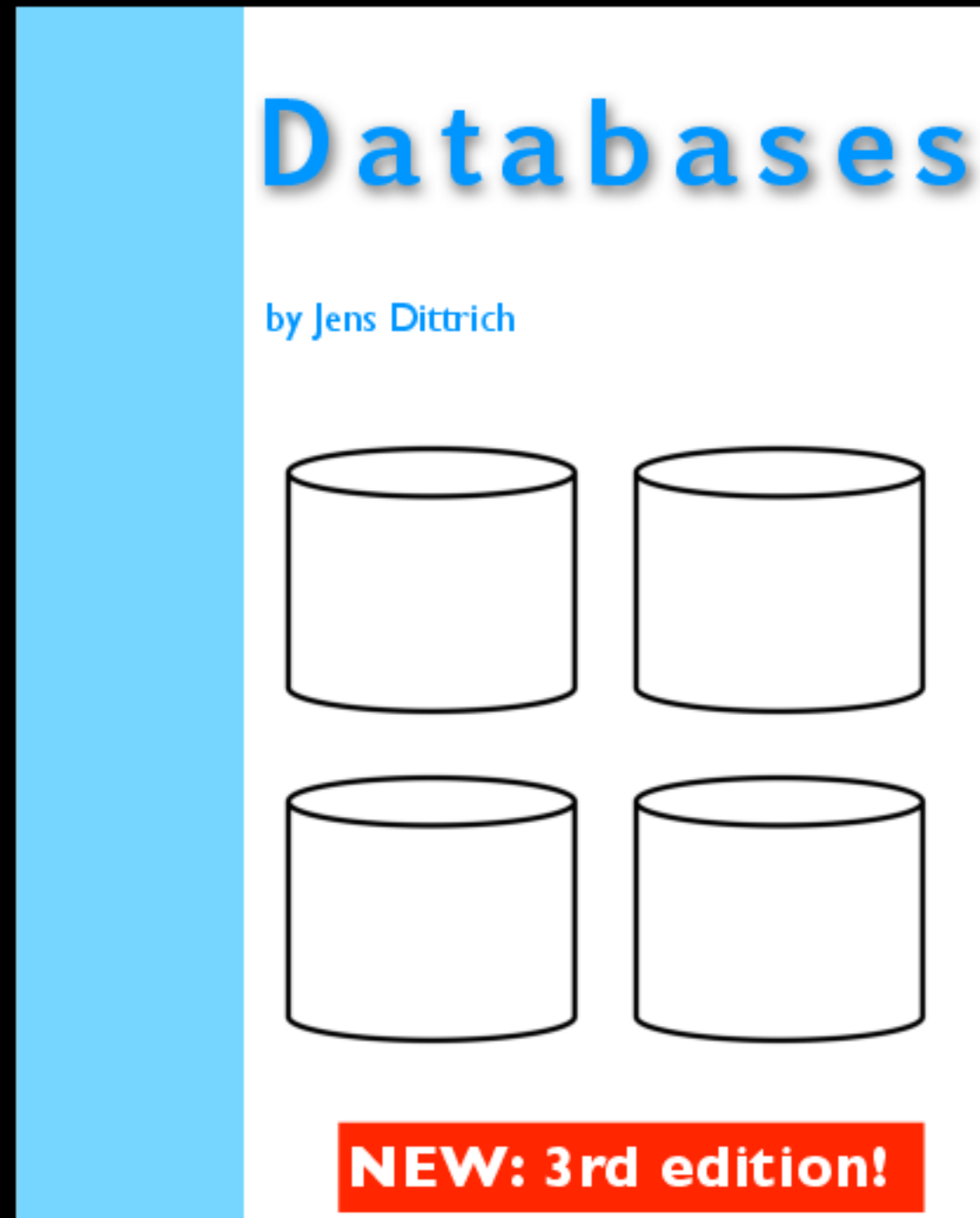


changes:

page 75:  
“kamera” → “camera”  
page 143:  
“big date” → “big data”  
new chapter on “tools”

# Create a 3rd Edition

3rd edition



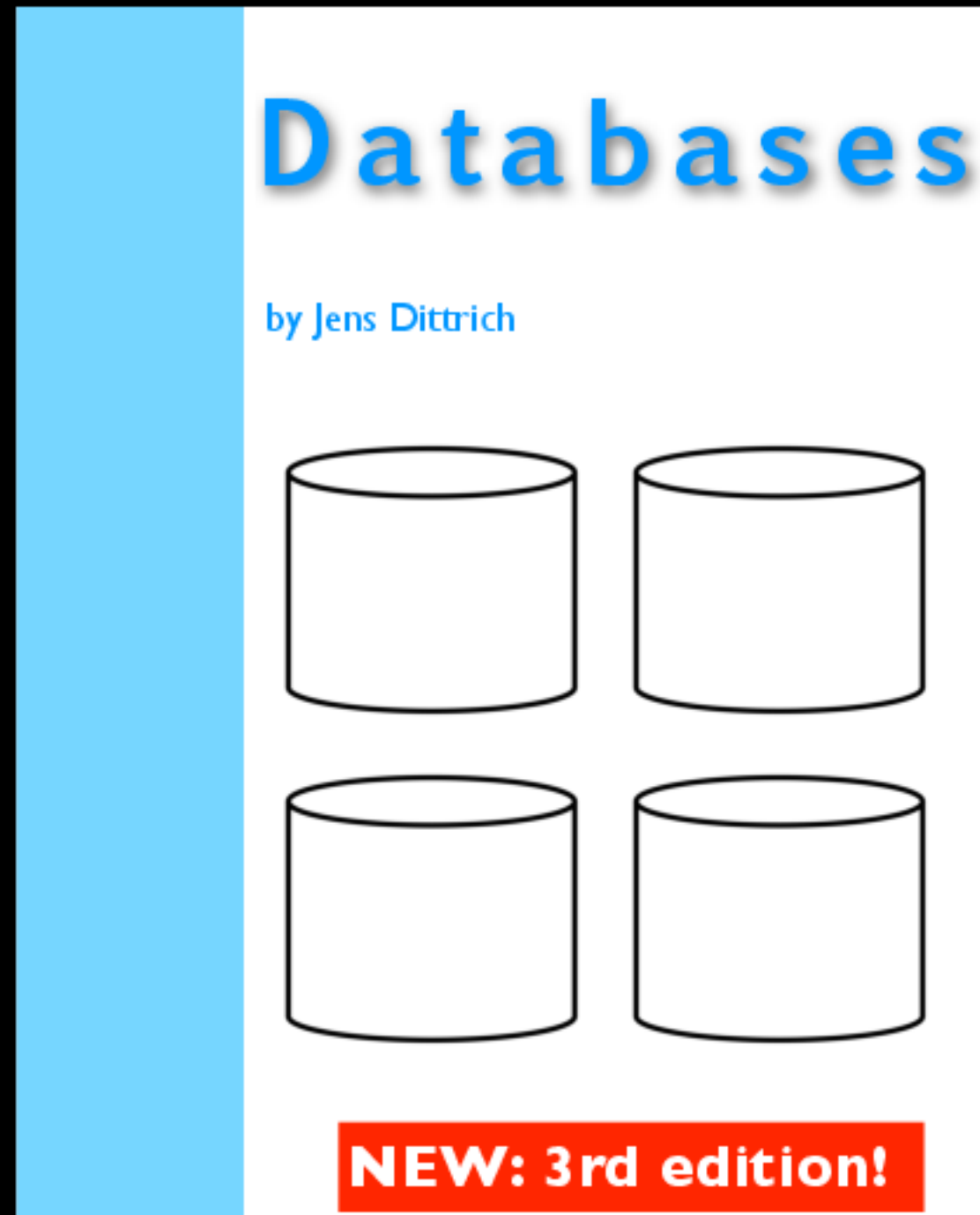
changes:





# Create a 3rd Edition

3rd edition



changes:

page 55:  
"profi" → "profile"

# Differential “File”

current edition



changes:



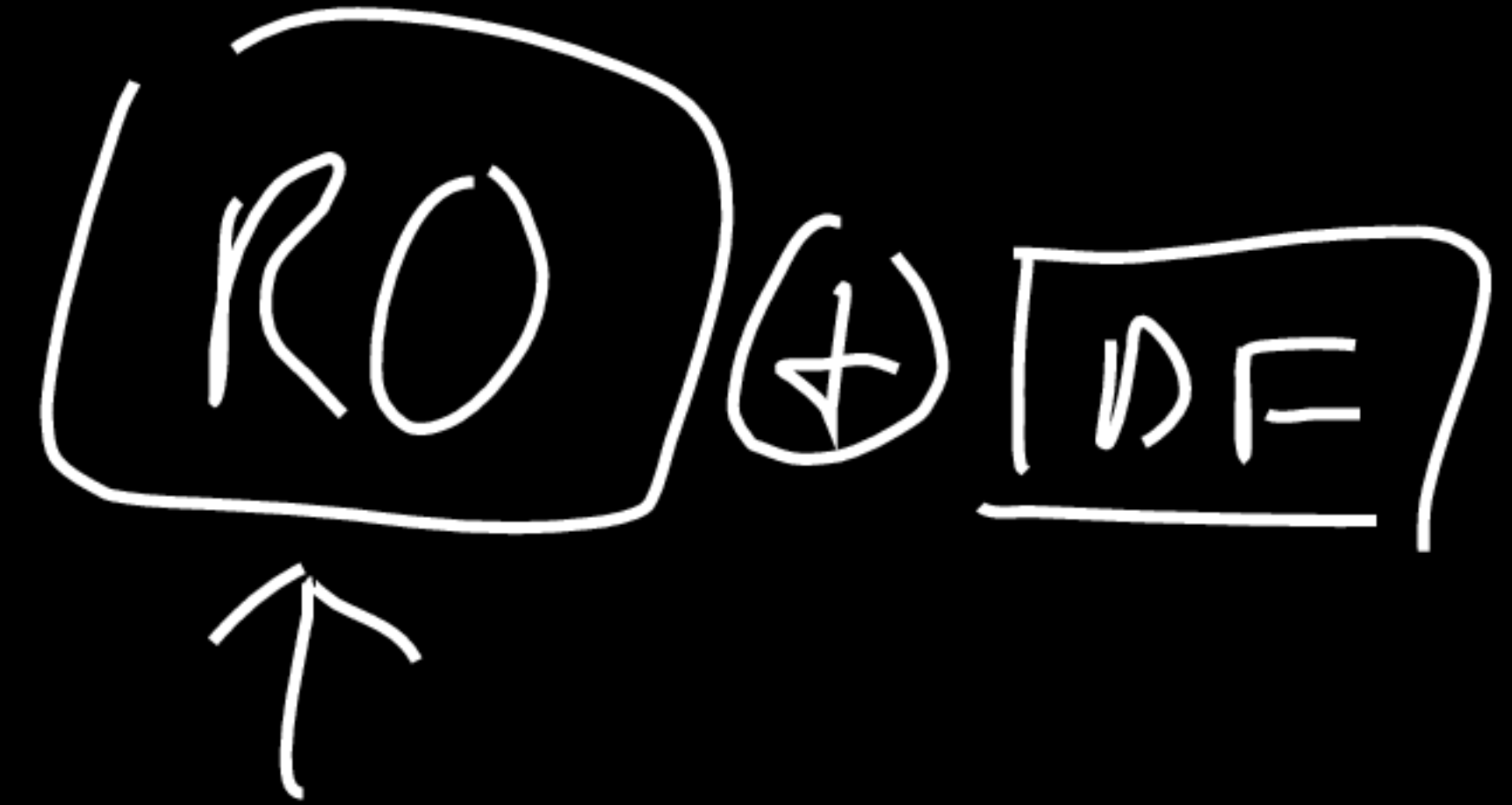
= yet another instance of: The Batch Pattern and The All Levels are Equal Pattern

# Advantages

may be applied at almost any level, e.g. entire databases, files, indexes (disk or main memory), tables, blocks, pages, rows, ...

cheap writes (not necessarily sequential)

DiffFile corresponds to incremental backup





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DiffFile corresponds to incremental backup

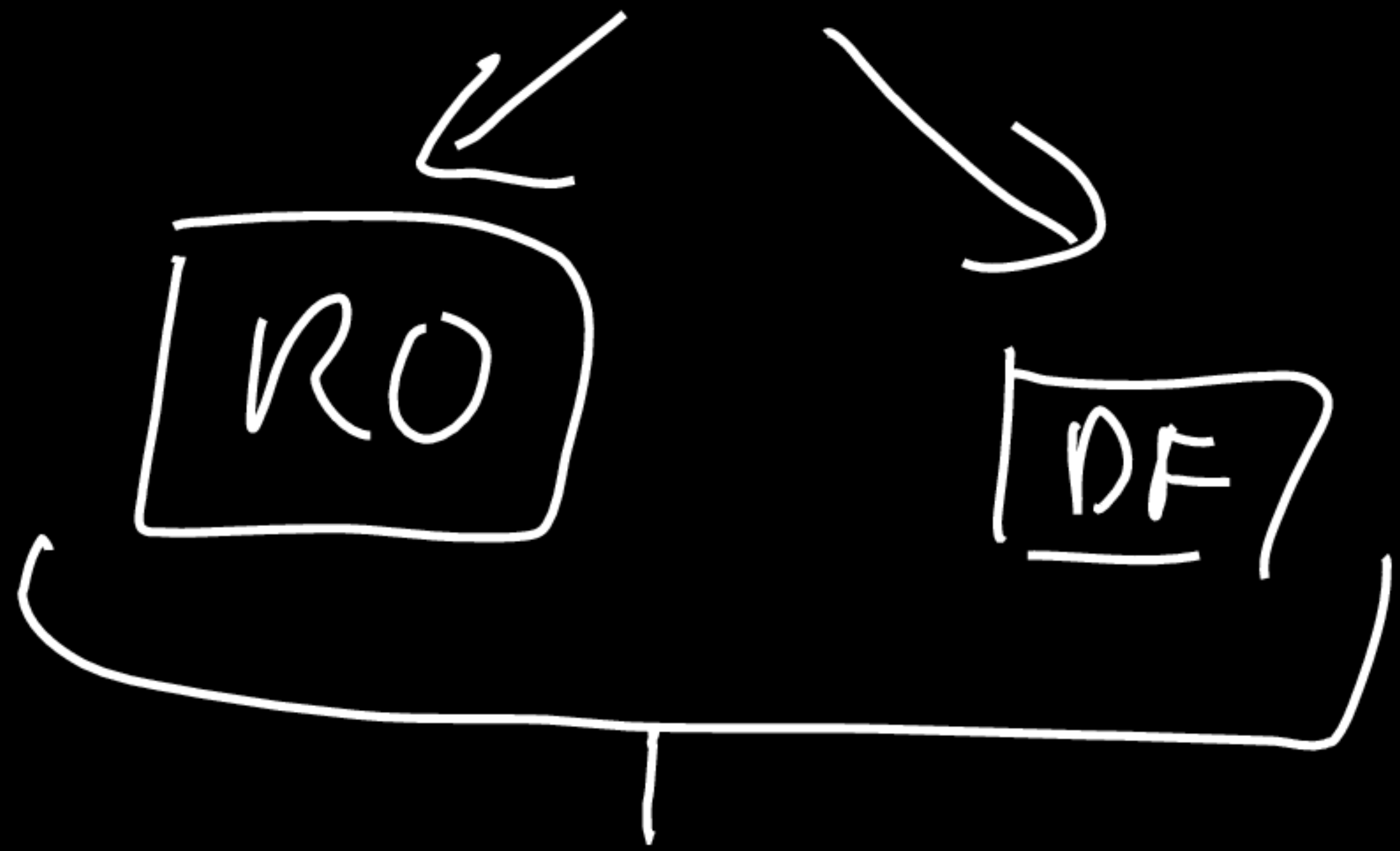
Read-only File corresponds to snapshot

merge -> defragment blocks on storage medium

easy to implement

# Drawbacks

expensive reads



# Drawbacks

expensive reads

additional write costs: merge costs need to be amortized!

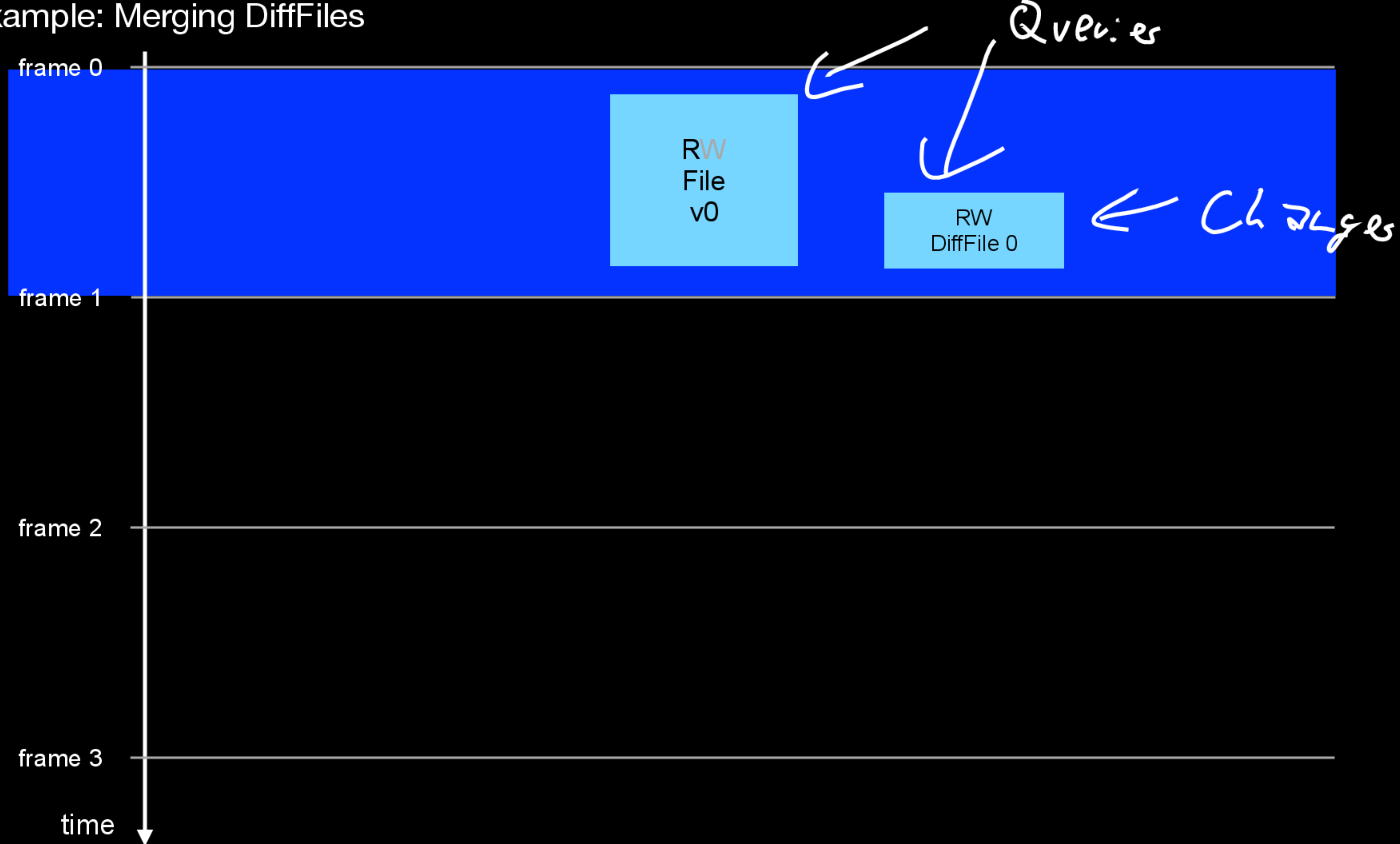
extra storage space

“truth” = Read-only File + DiffFile(s)

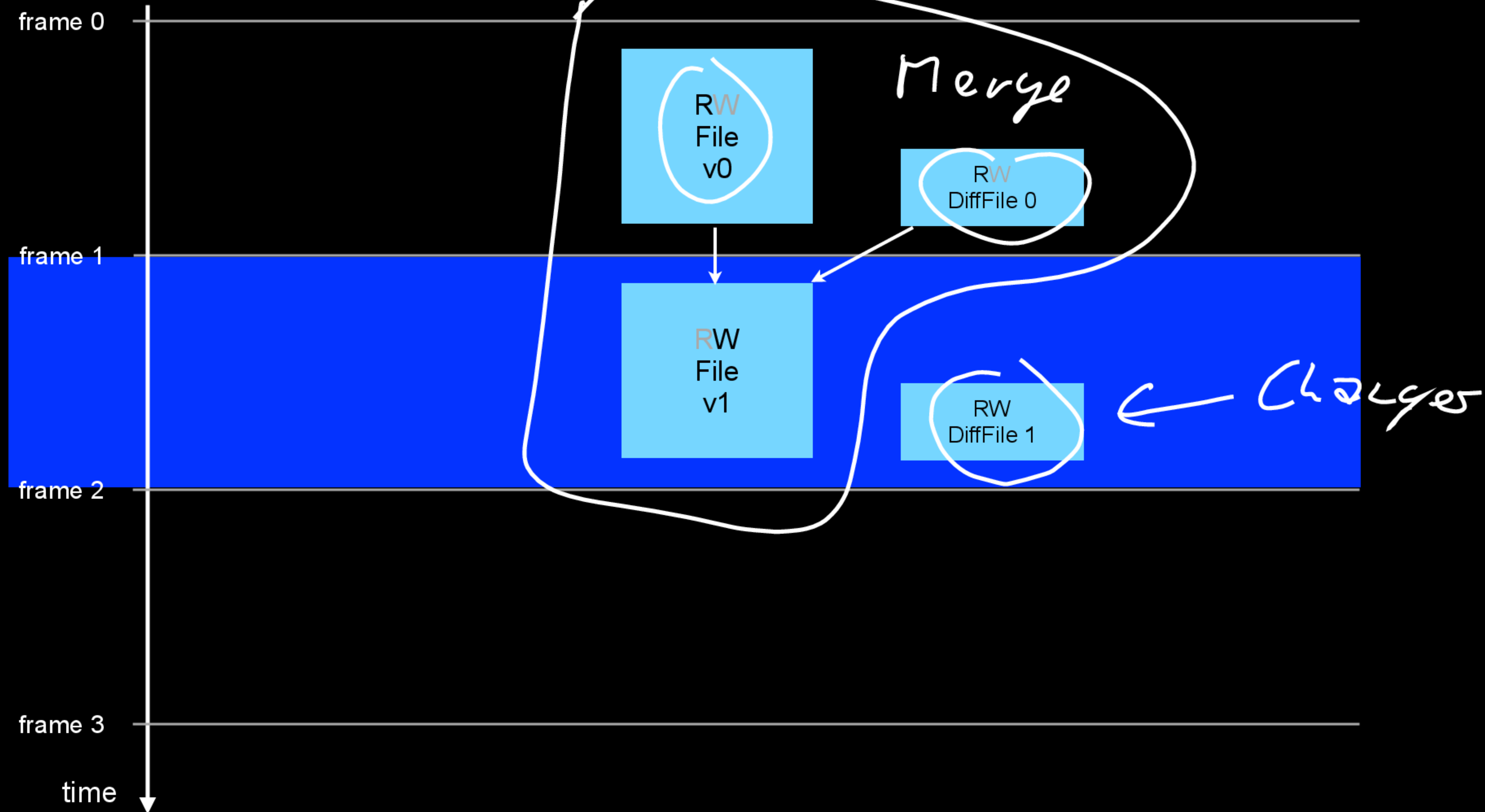




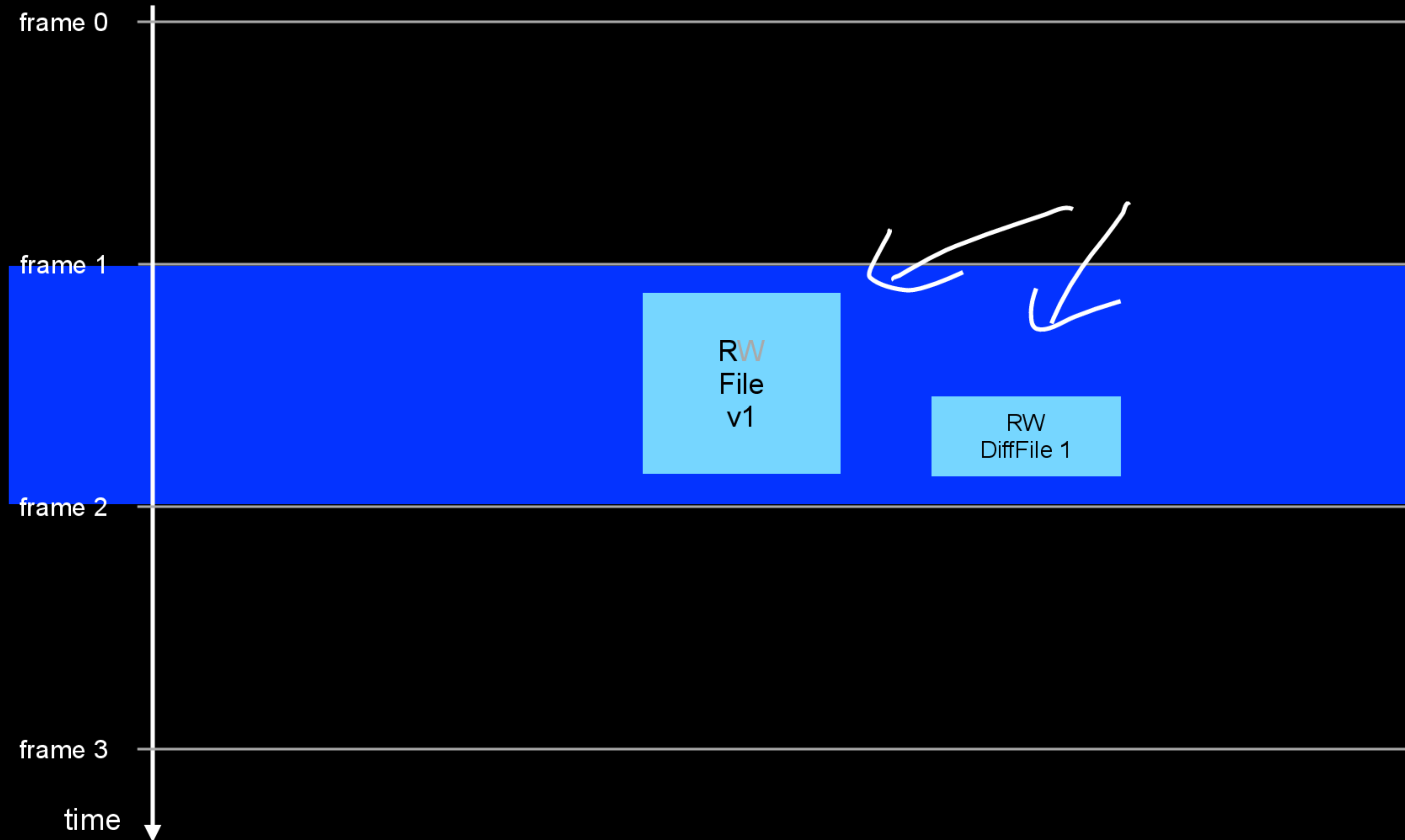
# Example: Merging DiffFiles



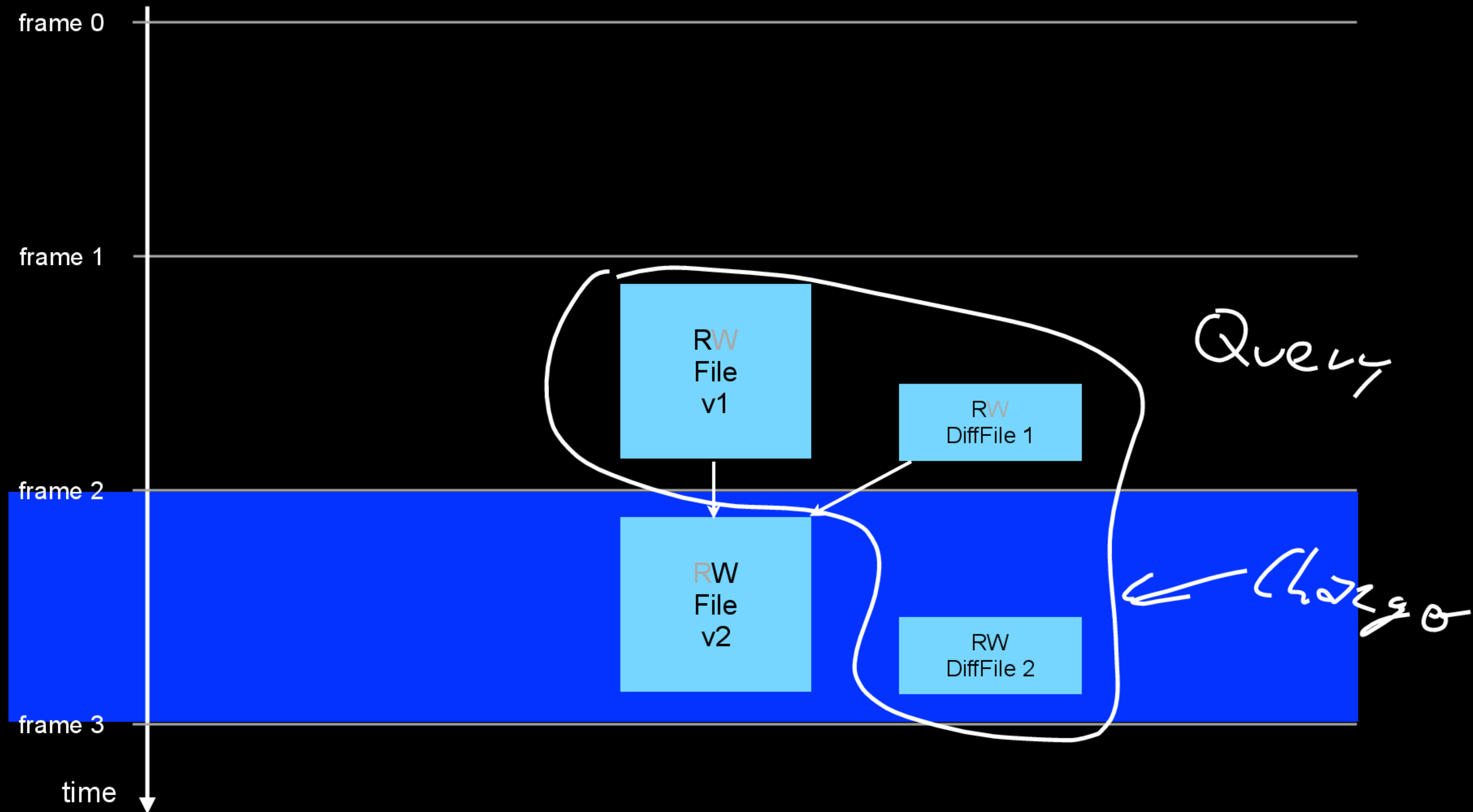
# Example: Merging DiffFiles



# Example: Merging DiffFiles

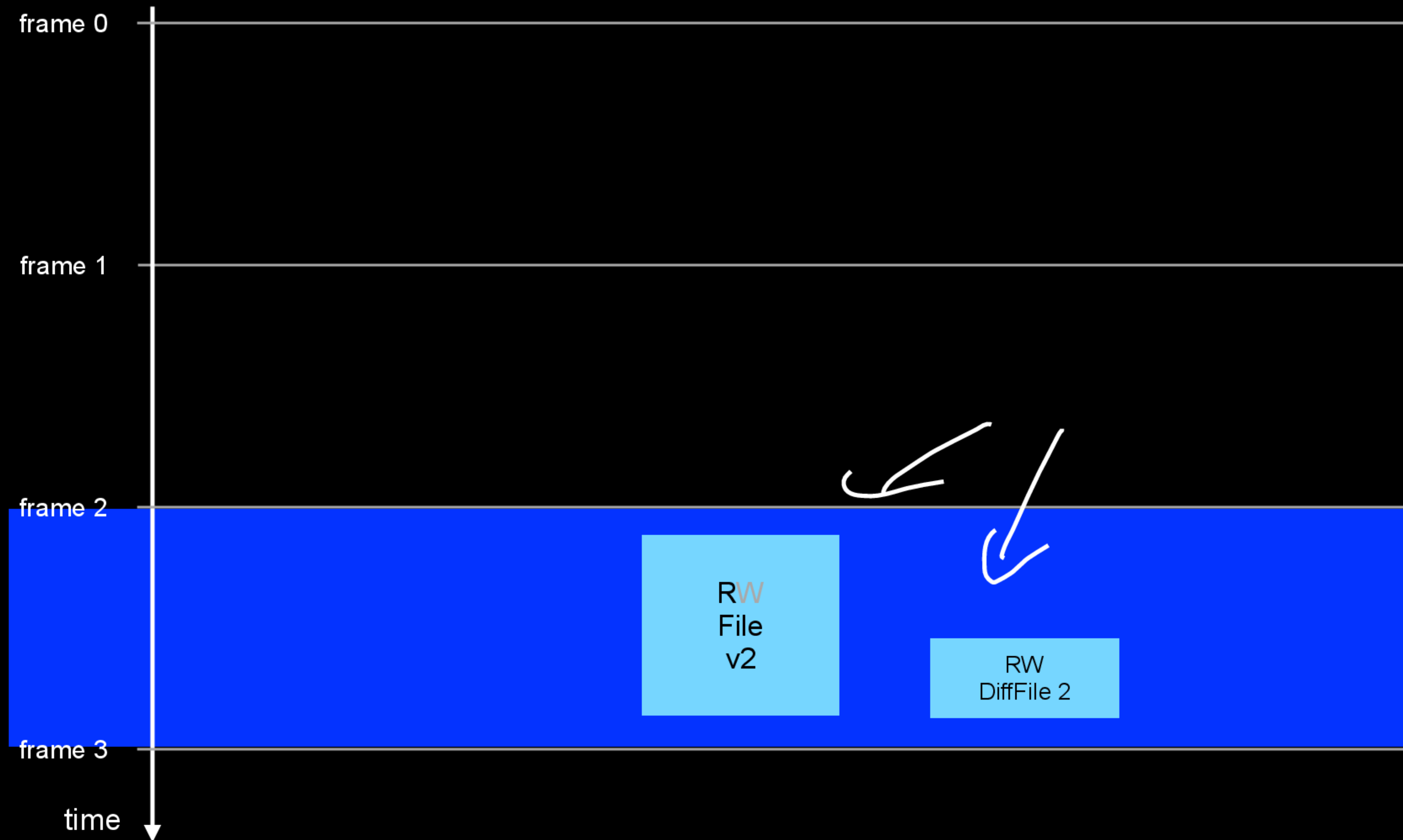


# Example: Merging DiffFiles





# Example: Merging DiffFiles



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