

□ □ □ □ □ □ □ **24fps**

[illegible]

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Diagram illustrating the horizontal sync area of a video signal, showing the distribution of horizontal sync pulses (hum bars) across the lines.

The diagram shows 10 rows of horizontal sync pulses (hum bars) distributed across the lines. The text "(hum bars)" is centered between the 10th and 20th boxes in the 5th row.

The text "50" is centered between the 10th and 20th boxes in the 8th row, indicating the number of lines for the 50 Hz signal.

The text "60" is centered between the 10th and 20th boxes in the 9th row, indicating the number of lines for the 60 Hz signal.

The text "PAL" is centered between the 10th and 20th boxes in the 10th row, indicating the PAL standard.

The text "NTSC" is at the bottom left, indicating the NTSC standard.

[illegible]

[illegible]

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□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ (scan) □ □

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50

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60

□ □

□ □

□ □

2

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24fps Why so Complicated

Written by Administrator

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NTSC 30 fps
(frame per second)

)

29.97
fps

30fps 60

FCC

(compatible)

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6 MHz

A grid of 100 empty boxes arranged in 4 rows and 25 columns, intended for students to write their answers.

□□□□□ AM (Amplitude Modulation)

Written by Administrator

(synchronous)

NTSC

A grid of 30 empty rectangular boxes arranged in two rows of 15.

29.97 fps

15.2 ()

1080000 samples per second

1080000 samples per second

1080000 samples per second

1080000 samples per second

1080000 samples per second

00:00:00:00

1 second

01:00:00:00

30x60x60 =

108000

108000 samples per second

NTSC 29.97

fps

108000 samples per second

$108000/29.97 = 1$ second

3.6 seconds

108000 samples per second

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□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ (dropped
frame)

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(non-dropped frame) □ □ □ □ □ □ □ □ □ □

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□ □

□ □

(semicolon) □ □ □ □ □ □ □ □ □ □

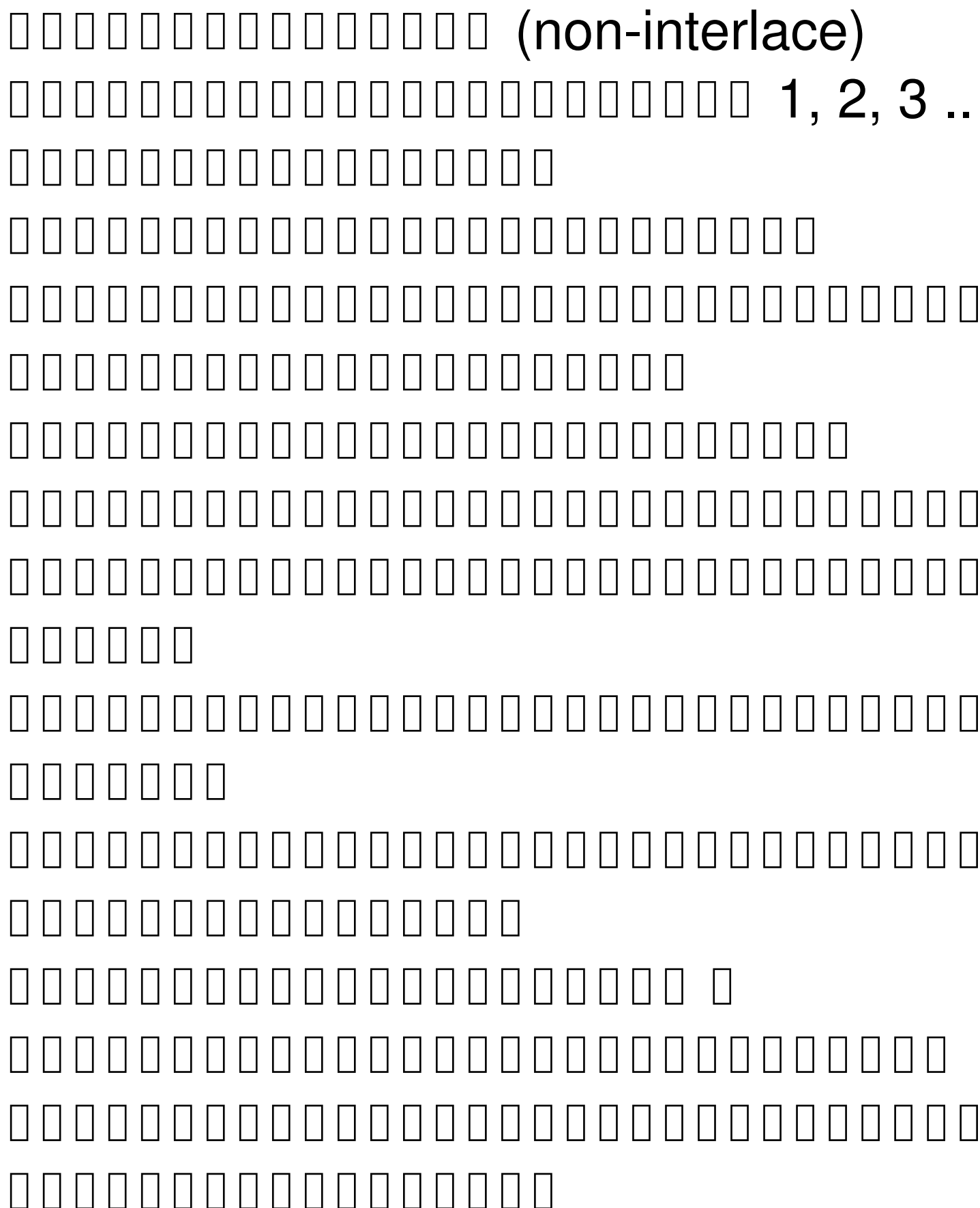
□ □ □ □ □ □ □ □ □ □ □ □ (colon) □ □ □ □

□ □

□ 00:02:59:29

□ □

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ 00;02;59;29



Written by Administrator

[illegible]

☐ ☐ ☐ ☐ ☐ ☐ (freeze)

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□ □ □ □ □ □ □ □ □ □ □ □ □ 25p □ □ □ □ □ □ □ □ □ □

25fps 25fps 25p

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□□□ 1 □□□□□□□□□□ 2.5 □□□□

Written by Administrator

4%

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ 24.00p □ □ □

23.97p

0.1%

□ □ 40 □ □ □ □ □ □ □ □ □ □

□ □ □ □ **24p** □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

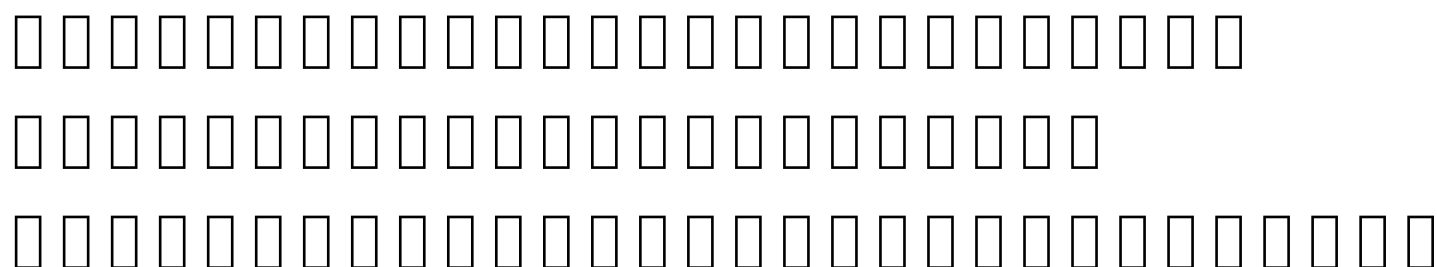


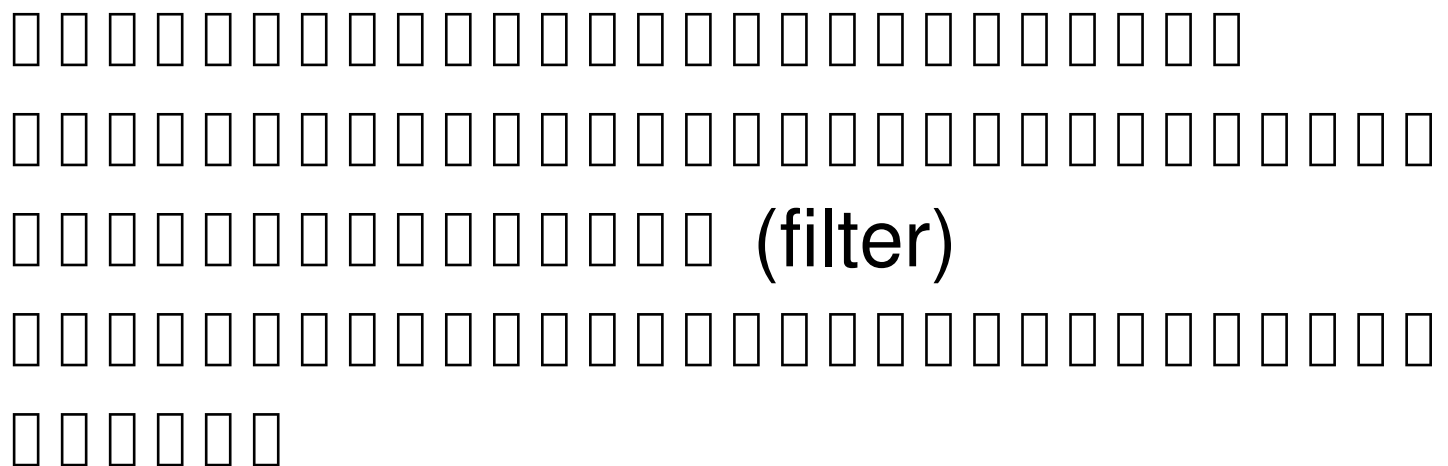
□ □ □ 24p

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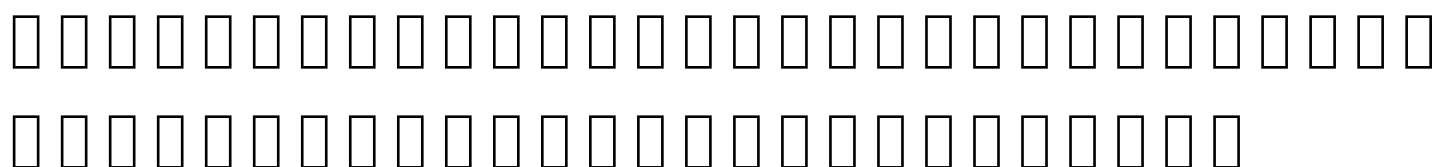
- Basic Frame Rate Conversion



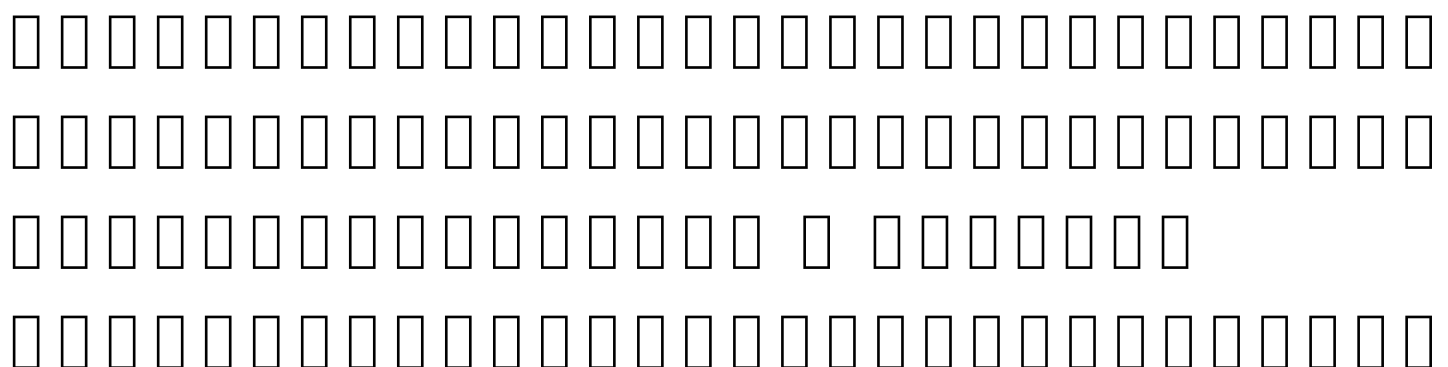


Linear Frame Rate
Conversion

- Motion Compensated Frame
Rate Conversion



Motion Adaptive Frame Rate
Conversion



Written by Administrator

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