

[illegible]

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Diagram illustrating the horizontal sync area of a video signal, showing the number of lines (rows) and the corresponding frequency (Hertz) for different standards.

Standard	Frequency (Hertz)	Number of Lines (Rows)
NTSC	50	28
PAL	60	30

The diagram shows the horizontal sync area, which includes the text "(hum bars)" and the text "PAL" and "NTSC".

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[illegible]

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Written by Administrator

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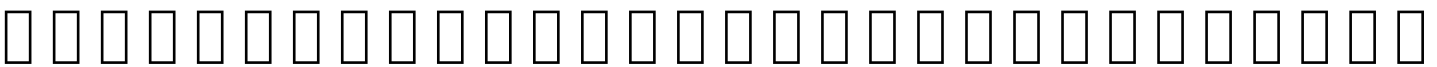
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24fps Why so Complicated

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NTSC 30 fps
(frame per second)

)

29.97
fps

30fps 60

FCC

(compatible)

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Written by Administrator

A grid of 60 empty rectangular boxes arranged in three rows of twenty.

(synchronous)

NTSC

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

1080000 samples per second 00:00:00:00

1080000 samples per second 1 second

1080000 samples per second 01:00:00:00

1080000 samples per second 30x60x60 =

108000 samples

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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frame)

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

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(semicolon) □ □ □ □ □ □ □ □ □ □

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

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□ 00:02:59:29

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[illegible]

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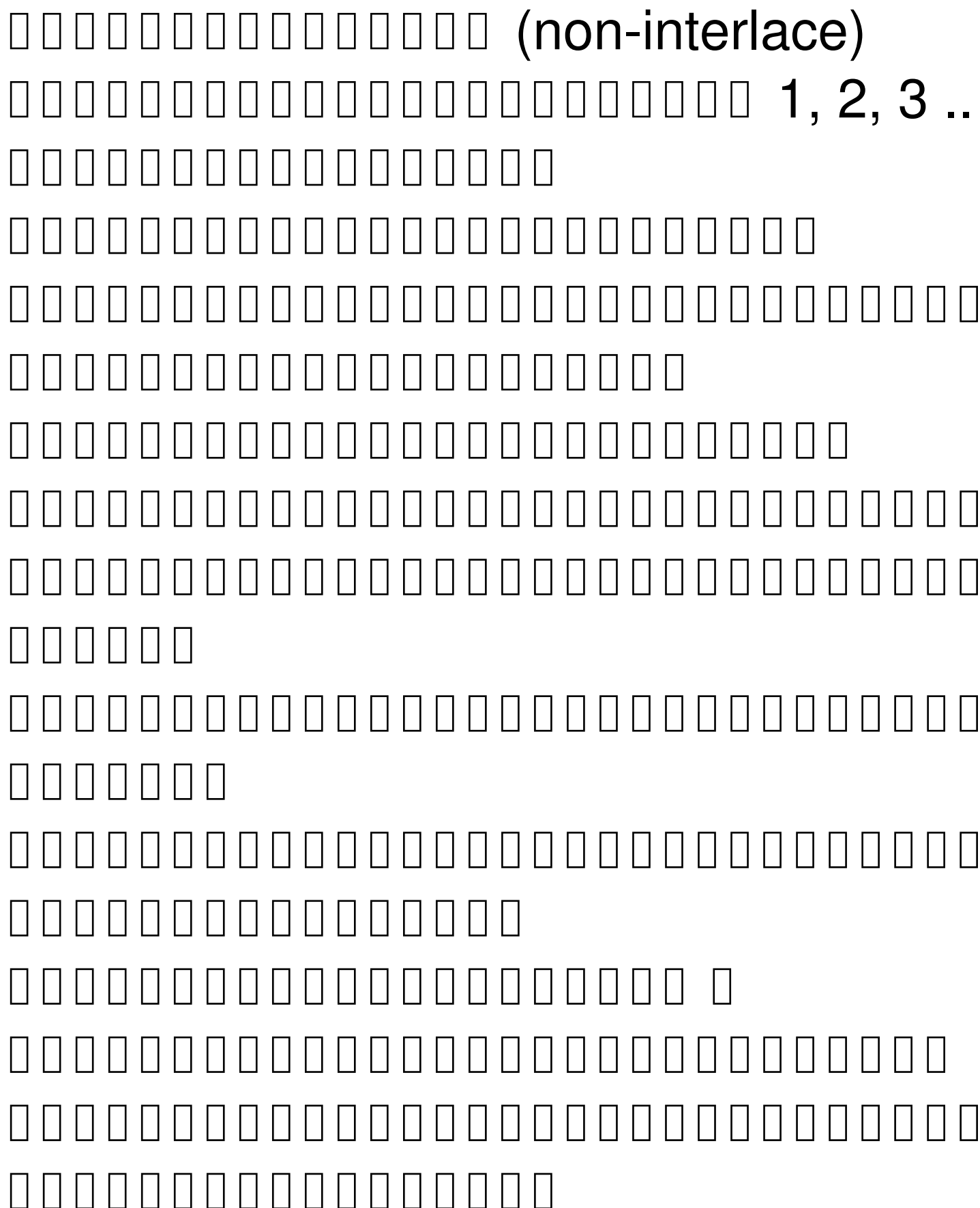
□□□□□□□□□□ 24 x 1000 / 1001 =

23.976 □□□□ **23.98** □□□□□□□□□□□□□□□□



□ □ □ □ □ □ 30fps □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

□□□□□ 29.97fps □□□□□□□□ □□□ 24fps



24fps Why so Complicated

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□ □ □ □ □ □ (freeze)

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□ 25p □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

25fps □ □ □ 25fps □ 25p

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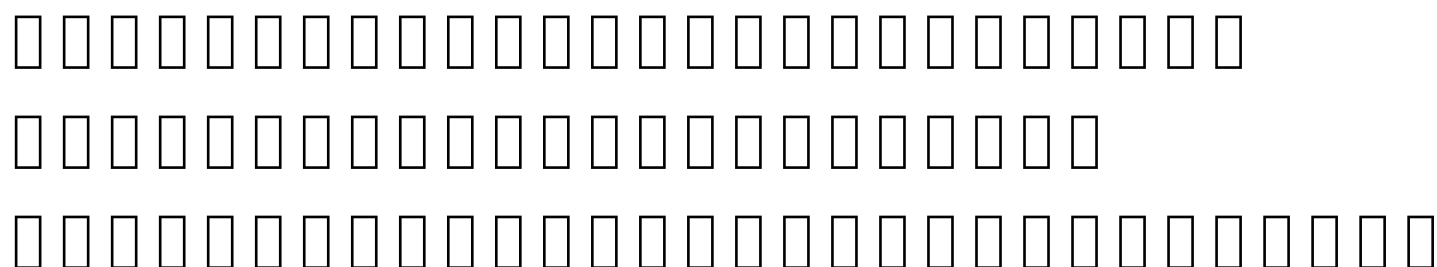
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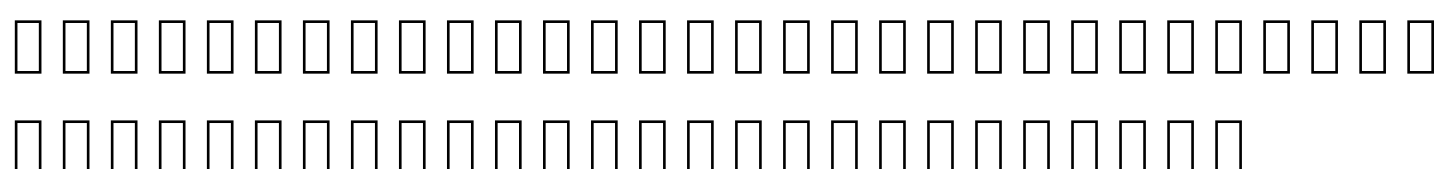
- Basic Frame Rate Conversion



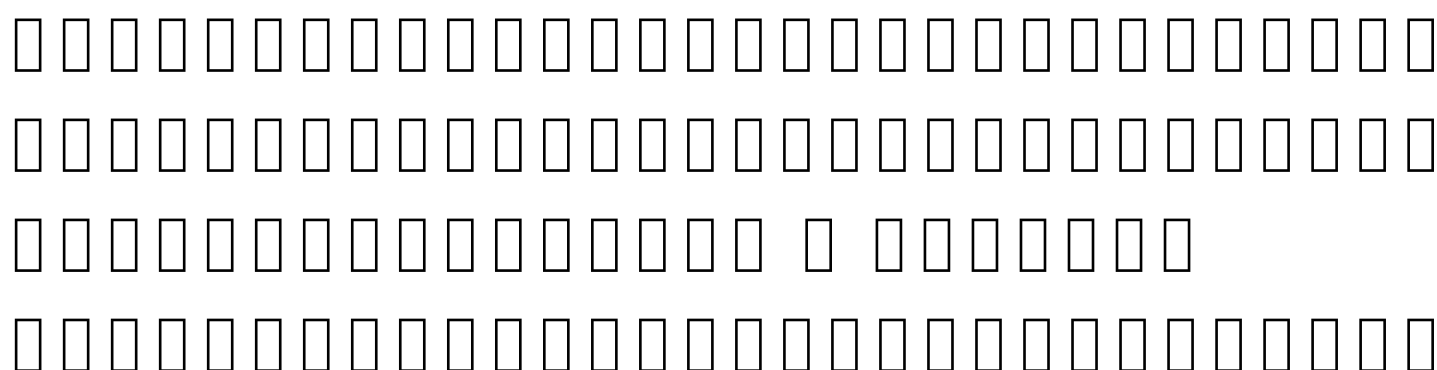


Linear Frame Rate Conversion

- Motion Compensated Frame Rate Conversion



Motion Adaptive Frame Rate Conversion



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[ulty/krause/t436/week7.html](#)

[http://www.burnworld.com/dvd/prime
r/ntsc.htm](#)

[http://dvinfo.net/conf/archive/index.p
hp/t-49261.html](#)

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[http://groups.google.fi/group/sci.engr
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53](#)

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[http://www.paradiso-design.net/vide
ostandards_en.html](#)

[http://www.spatz-tech.de/spatz/pdfs/
Whatis24P.pdf](#) {/reg}