

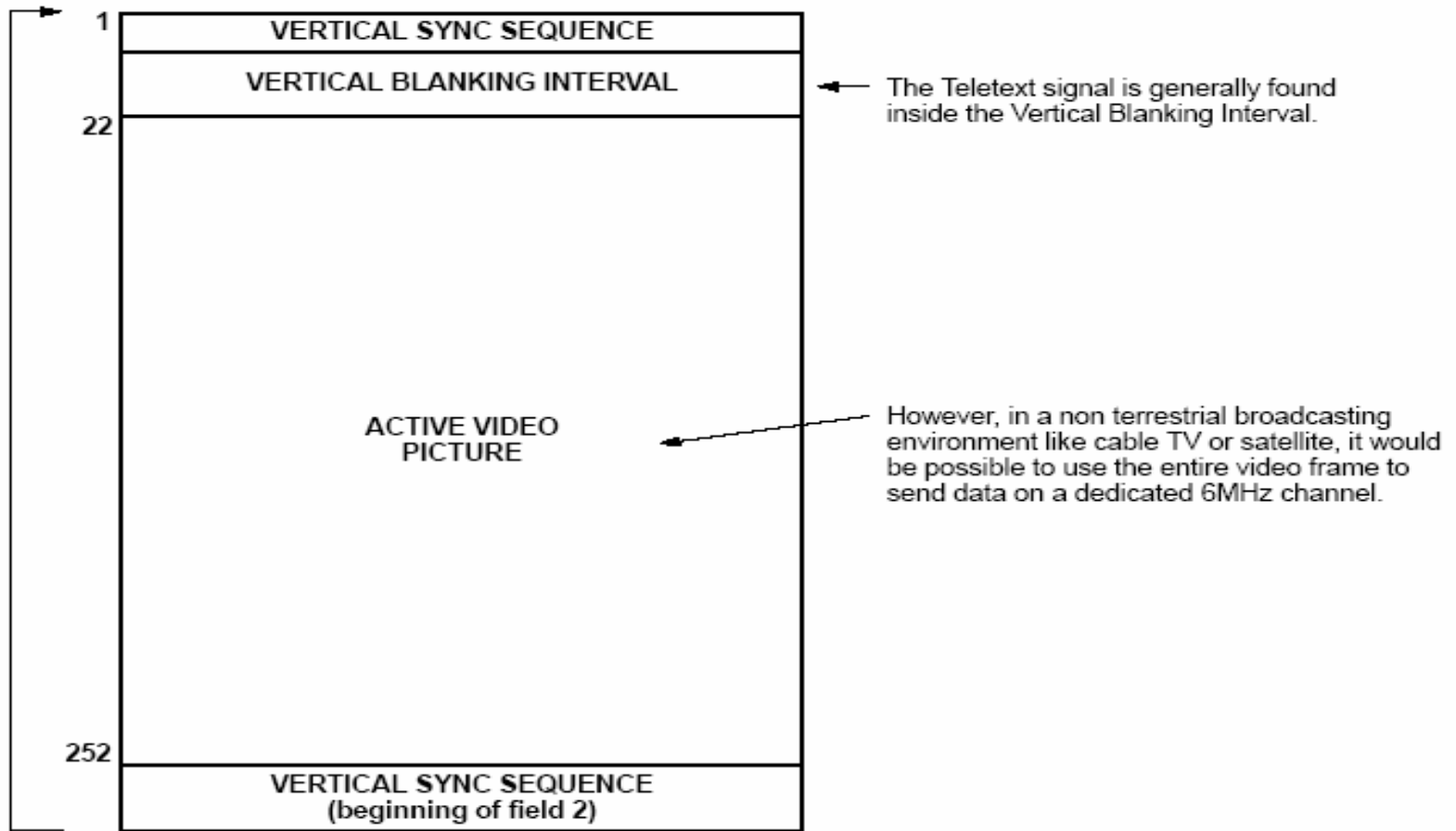
# What is Teletext ?

- Teletext is a system that was developed in the late '70s to deliver public information to television viewers in the comfort of their home.
- Teletext is a system which uses broadcast television to provide an information broadcasting capability

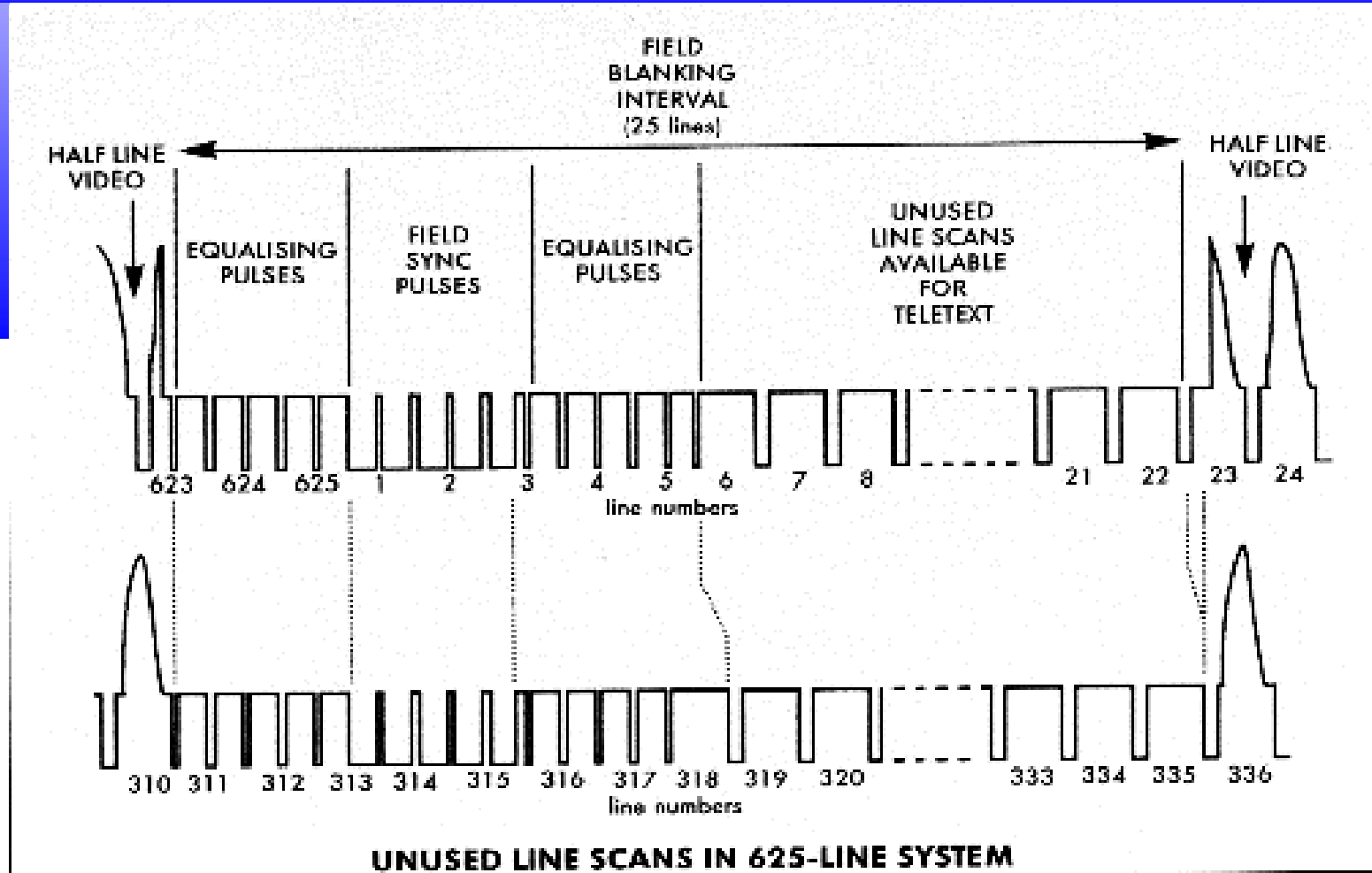
# Basic Teletext system overview

- Teletext is a format to transmit data within a video signal
- Can be multiplexed with the video, or not
- Data rate is a few MBit/s
- Accepted global standard (WST)
- Data error checking
- Low cost
- Uni-directional
- Page format: 24 rows × 40 columns

# VBI Data — Teletext

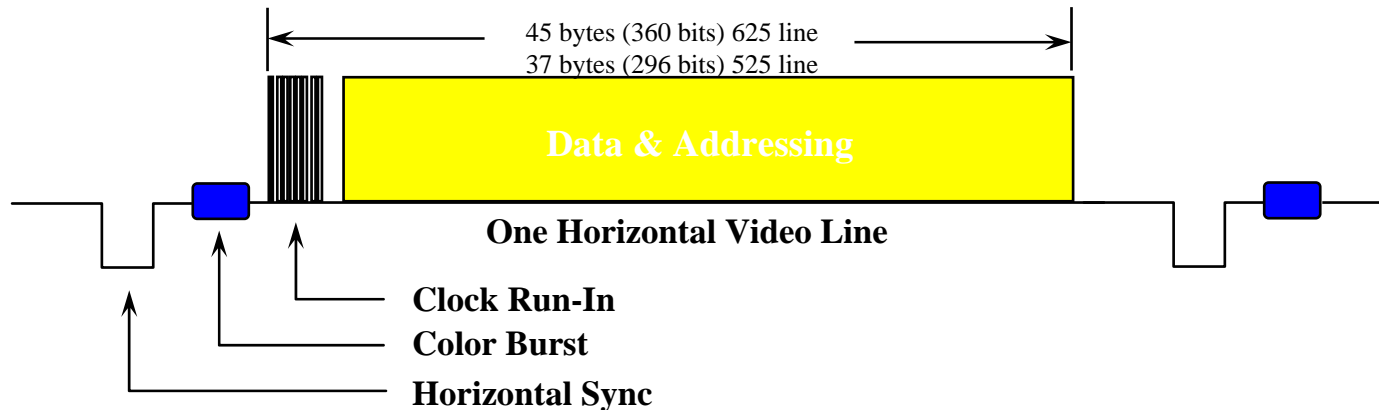


# VBI Data — Teletext



# VBI Data — Teletext

- Transmission of Text, Graphics, and Data
- Usually Just During Vertical Blanking Interval



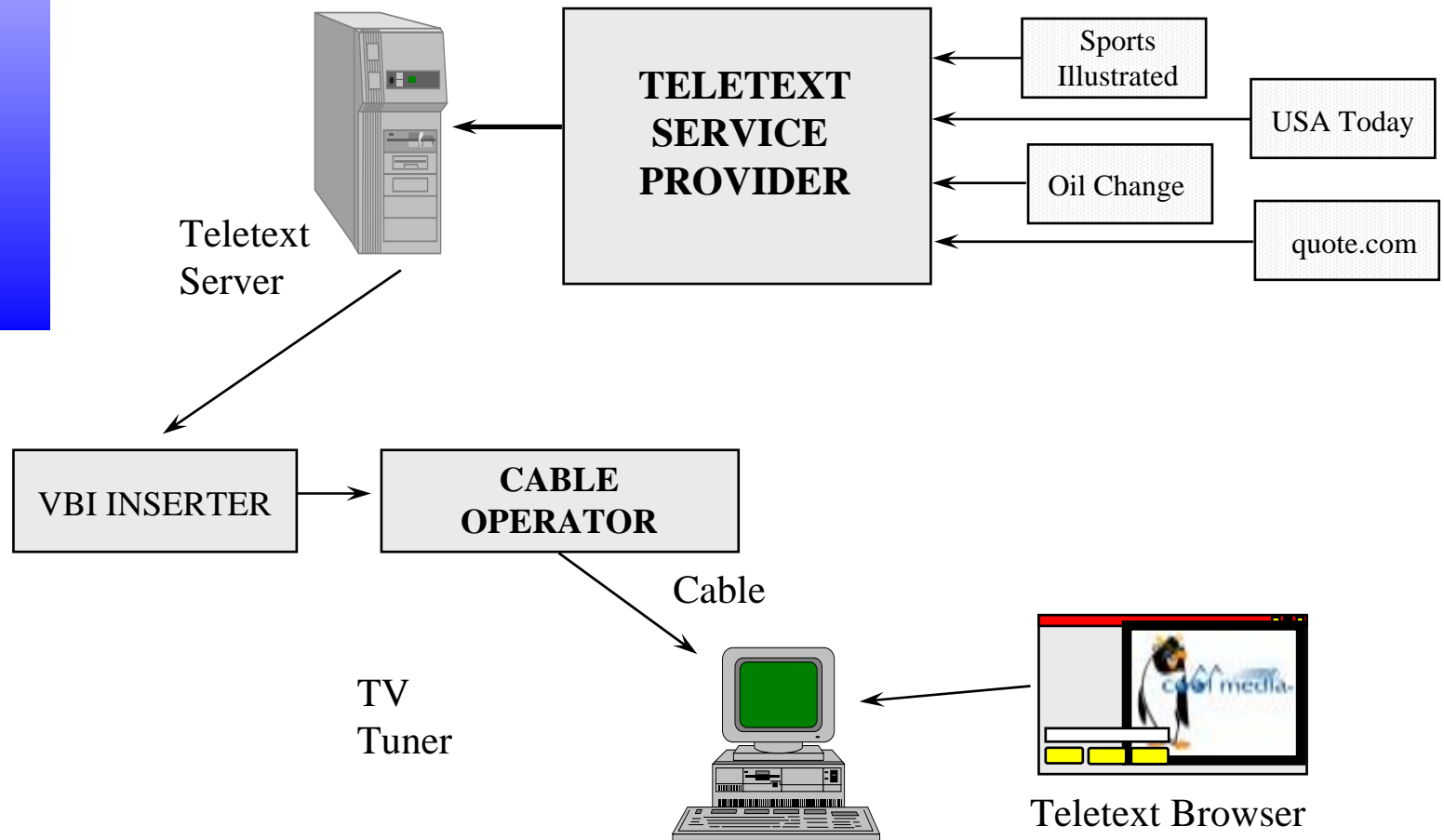
## VBI Data — Teletext

- A teletext display consists of **letters(A-Z, a-z), numbers (0-9), symbols(, . & \$ currency signs, accents ) and simple graphic shapes .**
- There are a number of control codes which allow selection of **graphic or text colours** and other display features known as attribute.

# VBI Data—Teletext

		NTSC	PAL
Teletext System A (France)	Line Number	N/A	7-18
	Bit Rate		6.203 Mbps
	Waveform		NRZ, Sine-squared pulse
	Encoding		Binary NRZ
	Content (in bits)		320
Teletext System B (World System Teletext)	Line Number	10 - 18	7 - 18
	Bit Rate	5.727 Mbps	6.938 Mbps
	Waveform	Symmetrical about 1/2 bit rate	Symmetrical about 1/2 bit rate
	Encoding	Binary NRZ	Binary NRZ
	Content (in bits)	296	360
Teletext System C (NABTS)	Line Number	10 - 18	10 - 18
	Bit Rate	5.727 Mbps	5.734 Mbps
	Waveform	Raised cosine 100% roll-off	Raised cosine 100% roll-off
	Encoding	Binary NRZ	Binary NRZ
	Content (in bits)	288	288
Teletext (System D (Japan)	Line Number	10 - 18	10 - 18
	Bit Rate	5.727 Mbps	5.642 Mbps
	Waveform	Controlled cosine roll-off of 0.6	100% cosine roll-off
	Encoding	Binary NRZ	Binary NRZ
	Content (in bits)	296	296

# VBI Data—Typical VBI Transmission





# VBI Data—Teletext

P100 CEEFAX 1 100 Thu 25 Mar 19:52/00

**BBC CEEFAX**

News  
NATO LAUNCHES FRESH WAVE OF STRIKES 104

Quotations  
READERS' FAVOURITE WORDS OF WISDOM 571

BBC News Online - [www.bbc.co.uk/news](http://www.bbc.co.uk/news)

LOCAL TV/RADIO	600
Children's	500
Regional weather	402
Showbiz/Features	540
A-Z Index	199



Home news digest and in brief... 141  
News Index 102 Flash 150 Regional 160

# VBI Data — Teletext



# VBI Data — Teletext

- **Color key - Red /Green /Yellow /Blue**

Direct access to the items

- **Teletext Toggle -**

Turn on/off Teletext function

- **Selecting a page- ( 0 - 9 / Up, Down )**

Use the 0 to 9 or Up/Down keys to enter the page number required . Example: page 120, enter 120.The number is displayed top left, the counter turns and then the page is displayed. Repeat this operation to view another page. If the counter continues to search, this means that the page is not transmitted. Select another number.

- **Double height teletext**
- **Hidden information**

# Teletext - System Block

