

2018 49

2015 3

2018	20	2019	40	2020	40	100
10 15				1 3		

25%

1

14 16

0.5

240

5 15

20

1 2

2 3

30%

50%

100%

3

10%

1.

2.

1

1.

2.

3.

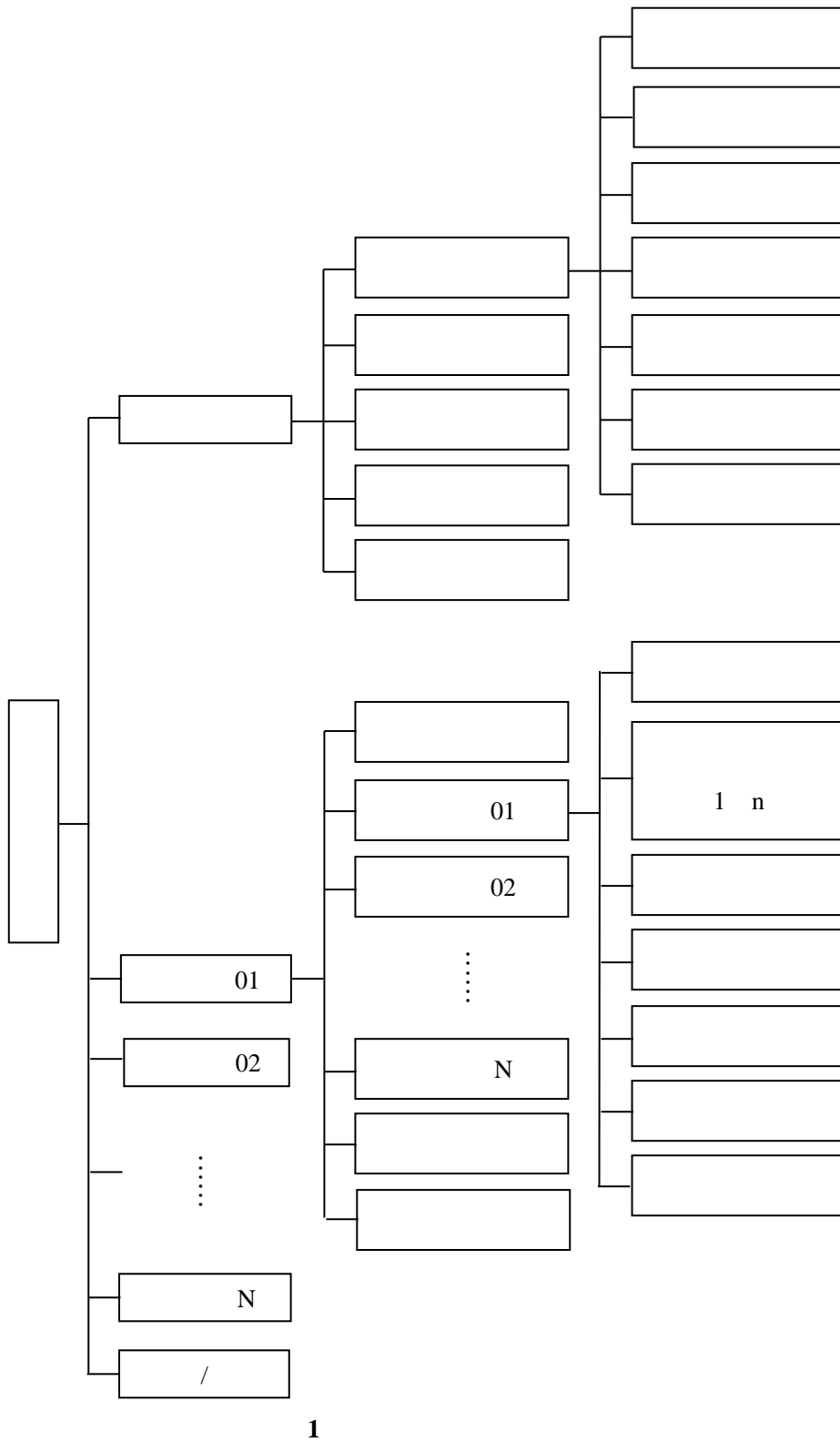
4.

5.

25%

6.





9.

10.

11.

12.

13.

/ / ( ) /

1.

14 16

5 15 20 1 1 2

240



MP4 1920\*1080 1280\*720 25 fps

: H.264/AVC 1024 kbps

AAC(MPEG4 Part3) 128Kbps

48 KHz 2

MP4 FLV 720\*576 720\*480 25 fps

: H.264/AVC 512kbps

AAC(MPEG4 Part3) 128Kbps

48 KHz 2



PPT

Flash

19 16:9

➤

48 dB

➤

( )

➤

/

10

2.

UTF-8

GB18030

txt doc docx pdf rtf htm

html xml

3.

/

24

256

1024×768

72 dpi

gif png jpeg jpg bmp

4.

44.1 kHz

22.05 kHz

8

64 Kbps

wma mp3 mp4

mp3

5.

320×240

( )

mp4 wmv mov flv

mp4

6.

5

gif swf Flash6.0 svg

7.

ppt pptx PDF



“ ”

8.

CSS

Microsoft IE Google Chrome Mozilla Firefox

HTML5

9. flash

swf

Flash 6.0

$$M = K_i \quad K_i$$

				$K_i$
1. 10				3
				4
				3
2. 28				5
				6
				6
			1 240	8

				3
3. 30				5
				6
				5
				6
				5

			3	48	3
4.  (20 )					5
					5
				/	5
					5
5.  (12 )					4
					4
					2
					2

/ / ( )

/