

Source Image Attribute Information

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Figure 1. The source images for building the image retargeting database

The source images for building the image retargeting database are illustrated in **Figure 1**. We have considered four attributes, specifically ‘face and people’, ‘clear foreground object’, ‘natural scenery’, and ‘geometric structure’. We define the clear foreground object attribute as that the salient object should occupy the image region smaller than 50% of the source image. The ‘natural scenery’ attribute means that a large proportion of the image contains the texture or smooth information. And the ‘geometric structure’ attribute denotes that there are evident edges or lines in the source image. The detailed attribute information of each source image is illustrated in **Table I**. Firstly, it can be observed that one image may contain more than one attributes.

Secondly, the dominant attribute of each source image is illustrated. We sort the attributes of each source image according to the attribute significance.

Table I. The attribute information of the source image. (1 indicates the attribute of ‘face and people’; 2 indicates the attribute of ‘clear foreground object’; 3 indicates the attribute of ‘natural scenery’; 4 indicates the attribute of the ‘geometric structure’. The attributes are sorted according to their corresponding significances. The left attribute denotes the most significant, while the right one is the least significant.)

Source Image Name	Attributes	Source Image Name	Attributes	Source Image Name	Attributes
'kodim01.png'	4	'kodim22.png'	4;3	'fish.png'	2
'kodim03.png'	2	'kodim23.png'	2	'fishing.png'	3;1
'kodim04.png'	1	'kodim24.png'	4	'getty.png'	3;4
'kodim05.png'	3;1	'monarch.png'	2	'girls.png'	1
'kodim06.png'	2;3	'ArtRoom.png'	4	'jon.png'	1
'kodim07.png'	2;3	'Lotus.png'	2	'kids.png'	1
'kodim08.png'	4	'Perissa_Santorini.png'	3	'kodim02.png'	3;4
'kodim09.png'	2;3	'Sanfrancisco.png'	4;3	'kodim15.png'	1
'kodim10.png'	4	'Umdan.png'	1;4	'mnm.png'	4
'kodim11.png'	3;2	'bicycle1.png'	2;1;3	'obama.png'	1
'kodim12.png'	2;1;3	'blueman.png'	4	'pencils.png'	4
'kodim13.png'	3	'buddha.png'	1	'penguins.png'	3
'kodim14.png'	1;2;3	'butterfly.png'	2	'pigeons.png'	1;2;4
'kodim16.png'	3	'car1.png'	4	'ski.png'	1;3
'kodim17.png'	1;4	'car.png'	4;2	'soccer.png'	1
'kodim18.png'	1;3	'child.png'	2;1	'surfer.png'	2;1
'kodim19.png'	4;	'colosseum.png'	2;1;4	'tiger.png'	4
'kodim20.png'	2;4	'eagle.png'	2	'venice.png'	2;3
'kodim21.png'	3;4	'face.png'	1	'volleyball.png'	1