

One hot encoding: definition

- Create 1 binary variable per category.
- Each single derived variable has a meaning on its own.

COLOR
Red
Blue
Green
Yellow

RED	BLUE	GREEN	YELLOW
1	0	0	0
0	1	0	0
0	0	1	0
0	0	0	1



Binary encoding: definition

- Use binary code, a collection of 0s and 1s, to encode the meaning of the variable.
- Individually derived variable lack human readable meaning.

COLOR	VAR1	
Red	1	
Blue	0	
Green	1	
Yellow	0	



Feature hashing: definition

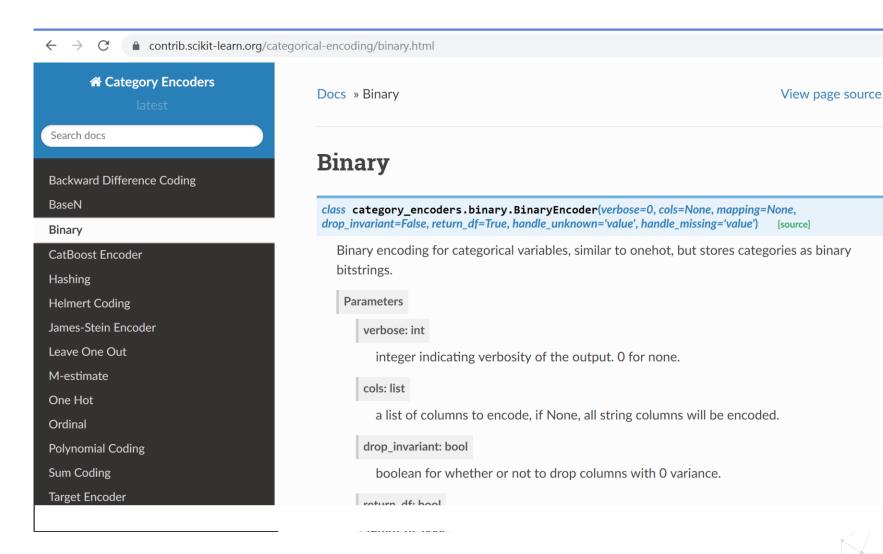
- Use a hashing method, any of choice, to encode the variables
- May lead to different labels taking the same value

COLOR	HASH	
Red	2	
Blue	1	
Green	0	
Yellow	1	

VAR1	VAR2	VAR3
0	0	1
0	1	0
1	0	0
0	1	0

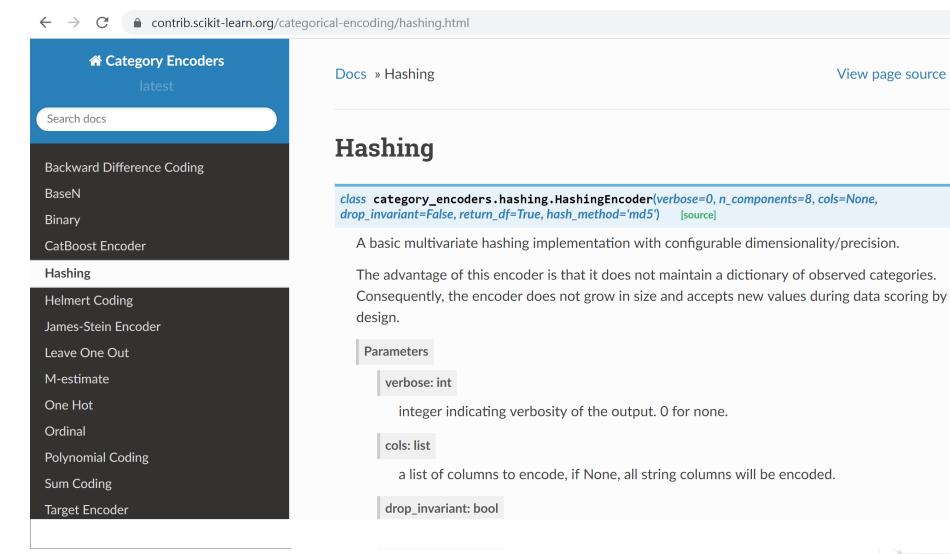


Binary encoding: Category encoders





Feature hashing: Category encoders





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