





WHAT FAMILY WOULD YOU GUESS THE MISSING PERSON BELONGS TO?

Labels	
	- Johnson Family Member
	- Carter Family Member





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USE THE 3 CLOSEST PEOPLE TO DECIDE
YOUR ANSWER. WE'LL CALL THIS
NUMBER K (i.e. $k=3$)

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WHAT FAMILY WOULD YOU GUESS THE MISSING PERSON BELONGS TO?



USE THE 6 CLOSEST PEOPLE TO DECIDE
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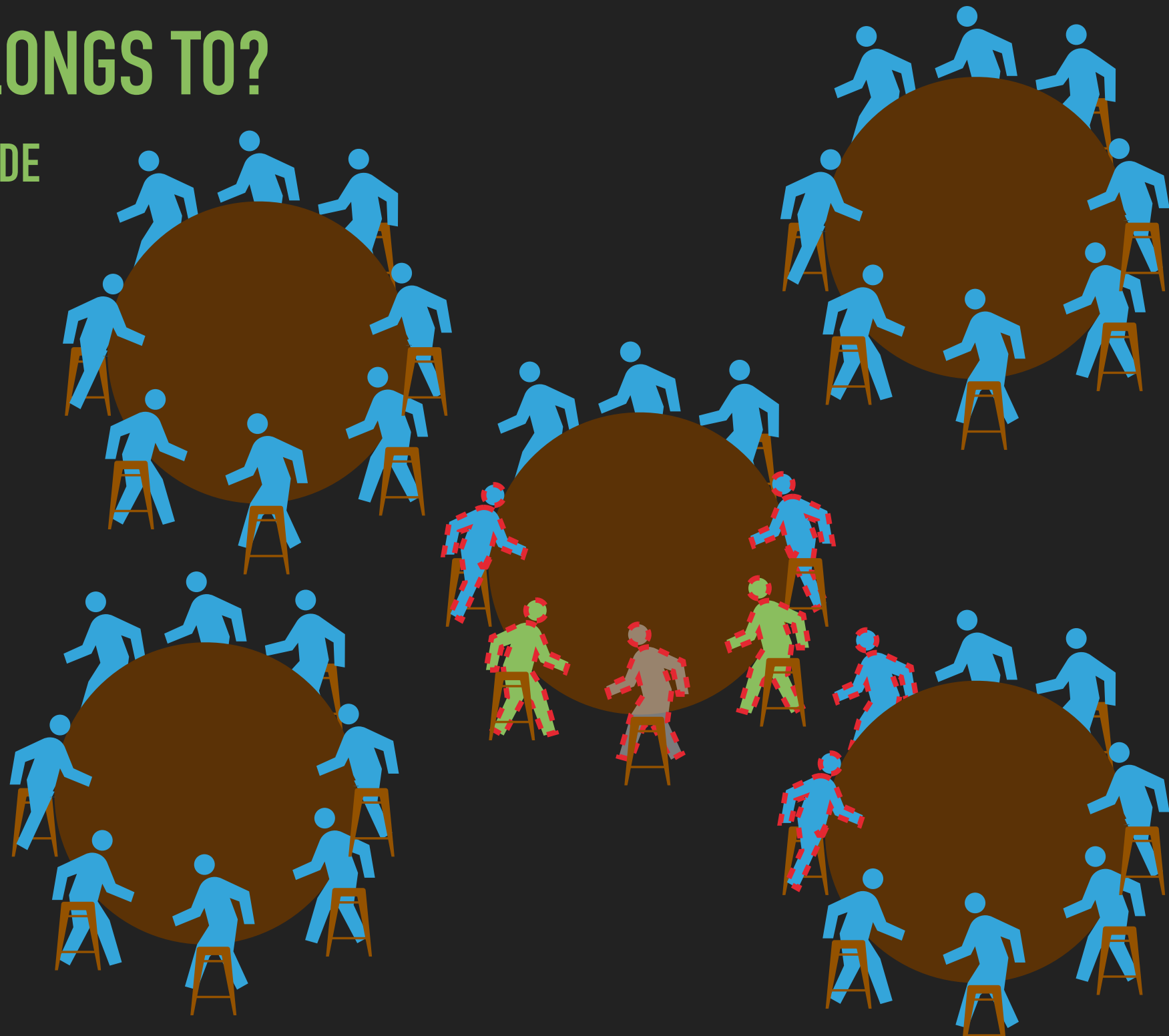
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I don't remember his last name
but, dude was definitely wearing
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is another 'feature'



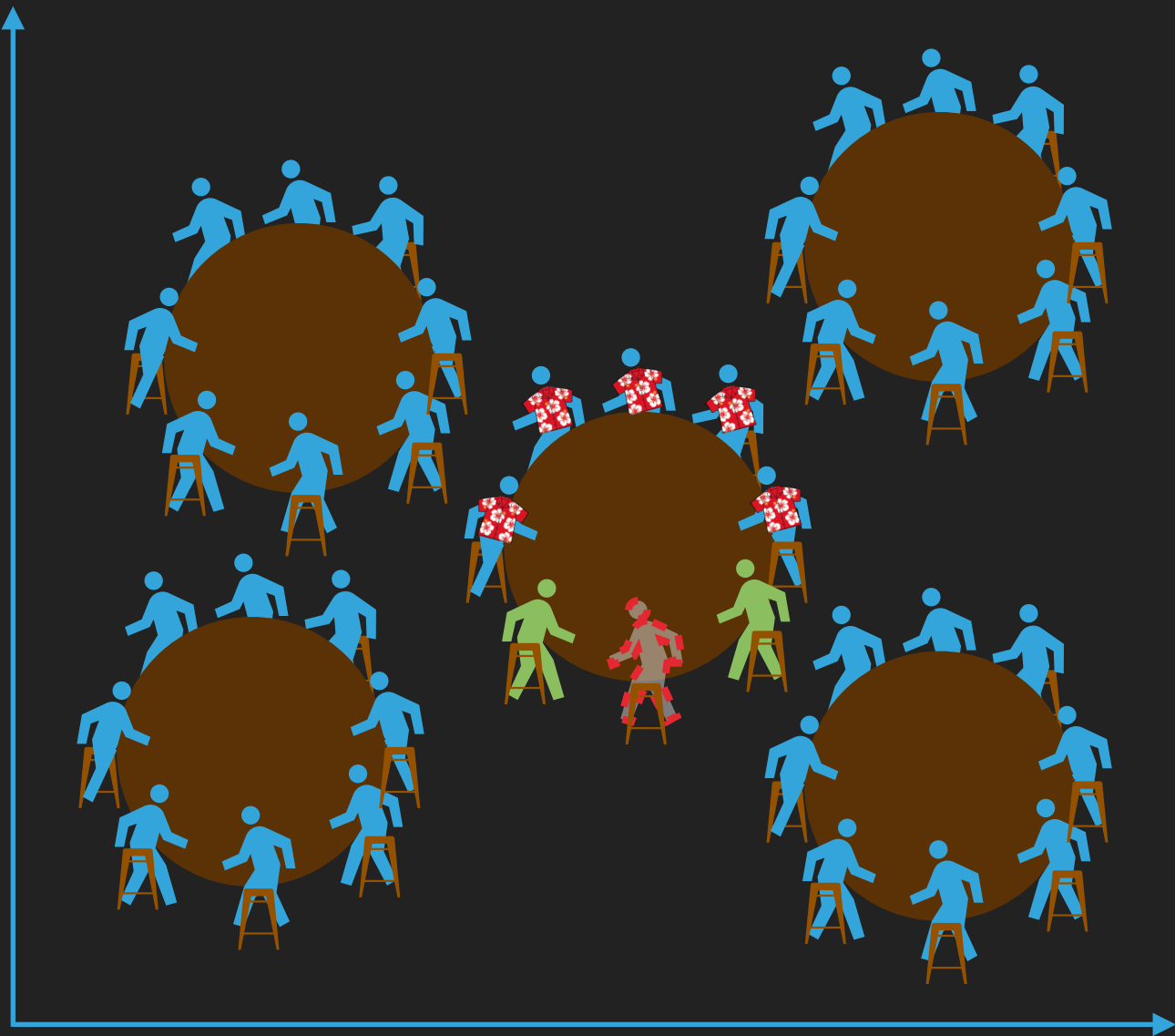
OUR DATA AS A DATAFRAME

Training Data

id	x	y	shirt	label
0	5	4	False	
1	7	4	False	
2	4	5	True	
3	7	5	True	





New Record to Classify

id	x	y	shirt	label
4	6	4	False	?



OUR DATA AS A DATAFRAME

Training Data

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New Record to Classify

id	x	y	shirt	label
4	6	4	True	?

USE THE 3 MOST SIMILAR PEOPLE
(ACCORDING TO OUR DATA)
TO DECIDE YOUR ANSWER... **k=3**




Squared differences between
Persons 0 & 4

x	y	shirt
1	0	1

OUR DATA AS A DATAFRAME

k=3

Training Data

id	x	y	shirt	label	dist
0	5	4	False		
1	7	4	False		
2	4	5	True		
3	7	5	True		

New Record to Classify

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4	6	4	True	?

$\sqrt{(1 + 0 + 1)}$


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1	7	4	False		
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3	7	5	True		

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Training Data

id	x	y	shirt	label	dist
0	5	4	False		1.4
1	7	4	False		1.4
2	4	5	True		2.2
3	7	5	True		1.4

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Majority Vote: 