

What's the difference between : Quantization, Clustering, Classification ?

#everyday_life_example



These terms are very close and sometimes exactly equivalent. It can be seen that way:

You get some data and you could want...

In quantization

to discretize or to make a summary

In clustering

to discretize, to make summary, to identify regularities or to make a prediction model

In classification

to make a prediction model

It depends on the context, sure,

but sometimes,

it is clear what you are aiming to do...

for example...

Quantization in your everyday life

Quantization in your everyday life

You get some data...
and you want to wash them.



Quantization in your everyday life

You get some data...
and you want to wash them.

The **main** constrain is:

- washing machine must receive the right amount of cloths in order to clean them optimally

The **secondary** constrain is:

- cloths should have similar colors



Quantization in your everyday life

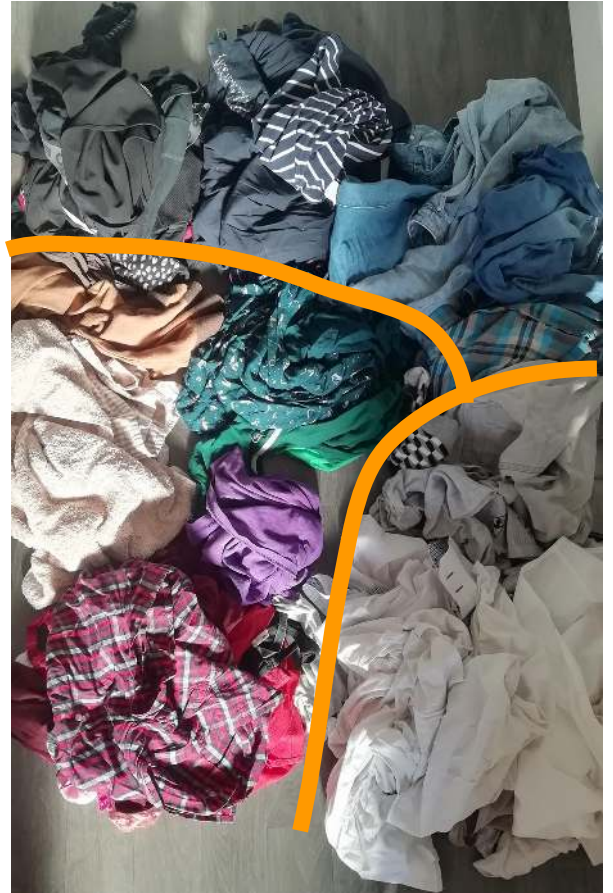
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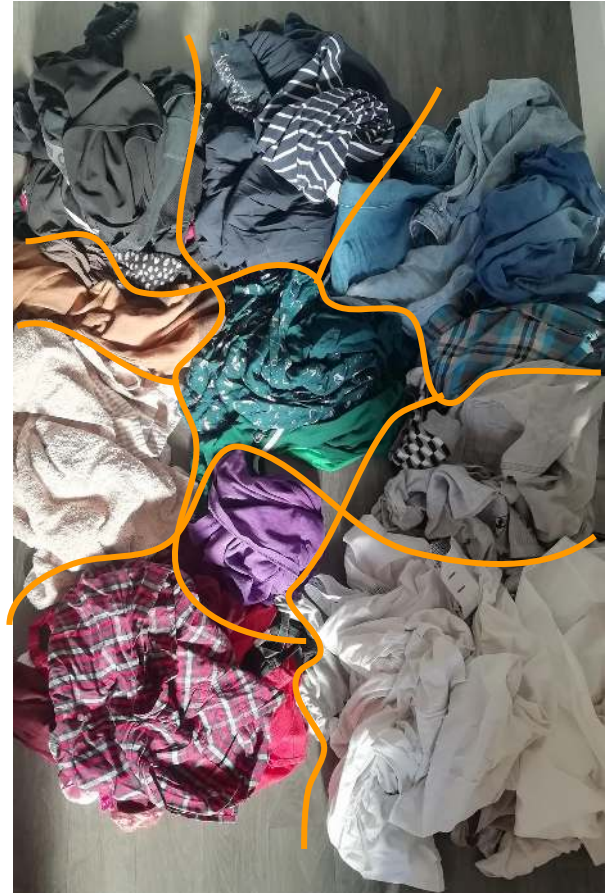
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Classification in your everyday life

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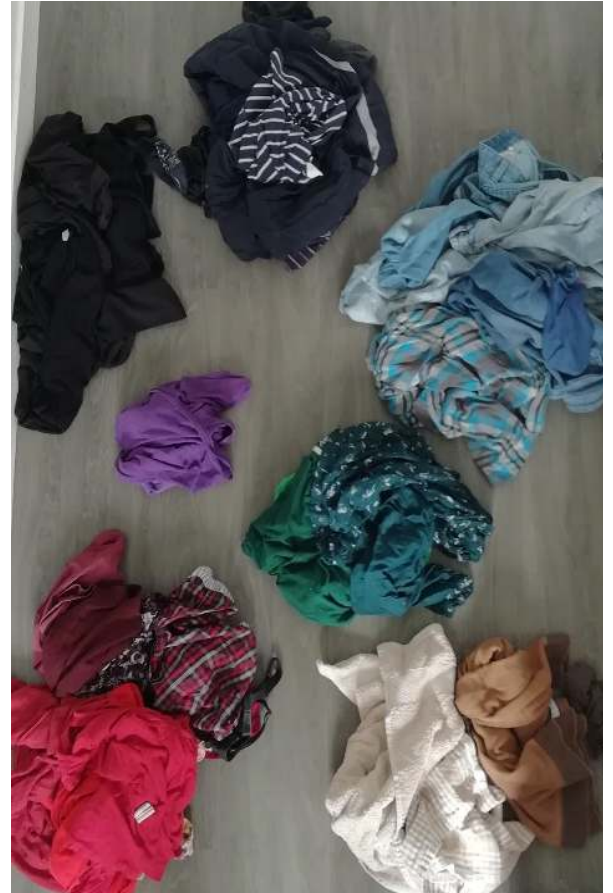
You make piles of cloths with similar colors
you already know you can wash together



Classification in your everyday life

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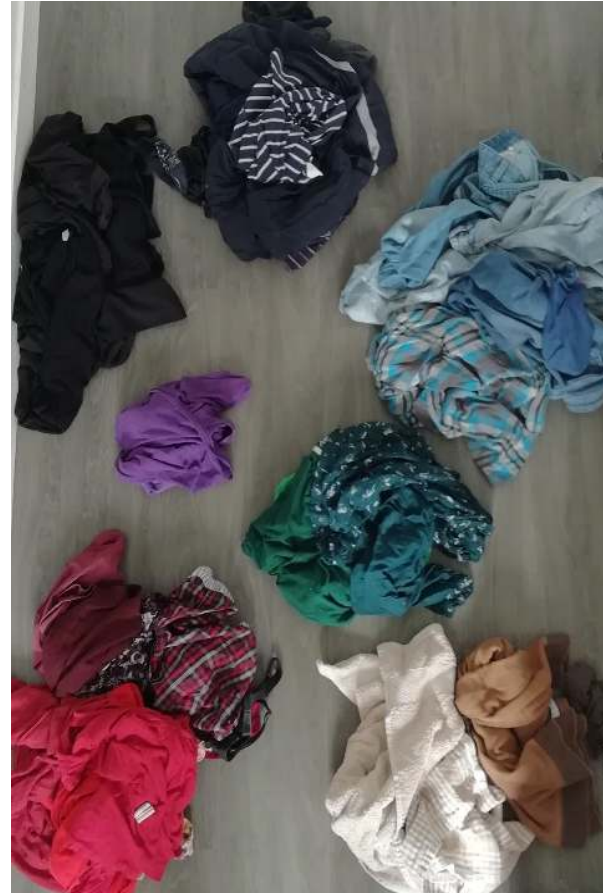


Classification in your everyday life

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You make piles of cloths with similar colors
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But, here's the thing...

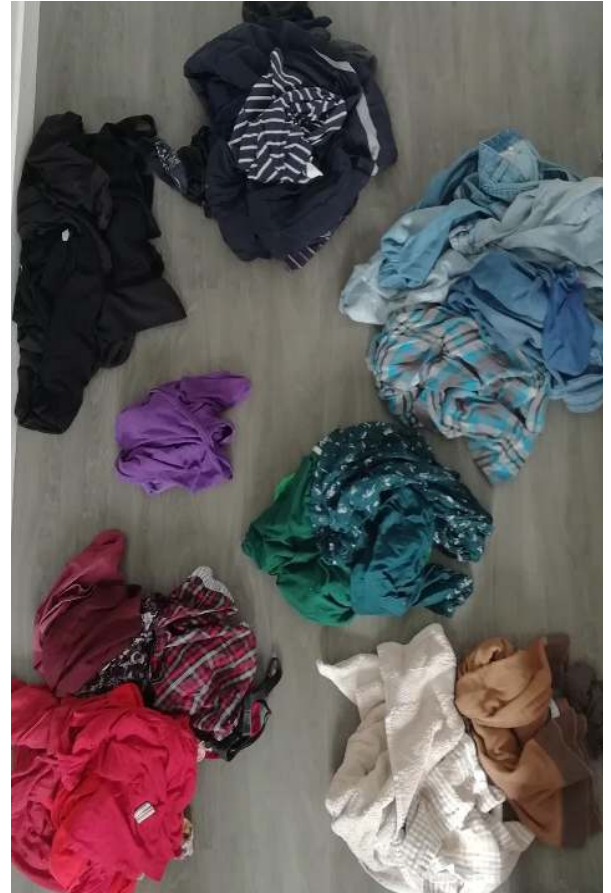


Classification in your everyday life

You get some data...
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You make piles of cloths with similar colors
you already know you can wash together

But, here's the thing...
What do you do with this top, you have
forgotten ?



Classification in your everyday life

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and you want to wash them.

You make piles of cloths with similar colors
you already know you can wash together

But, here's the thing...
What do you do with this top, you have
forgotten ?

...Put it with greens...



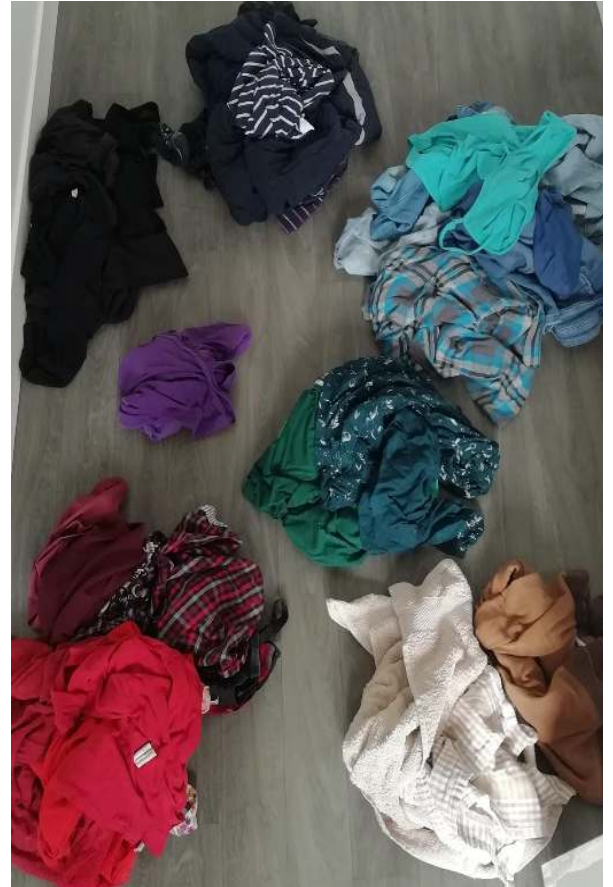
Classification in your everyday life

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But, here's the thing...
What do you do with this top, you have
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...Put it with greens...no, rather with light blues



Classification in your everyday life

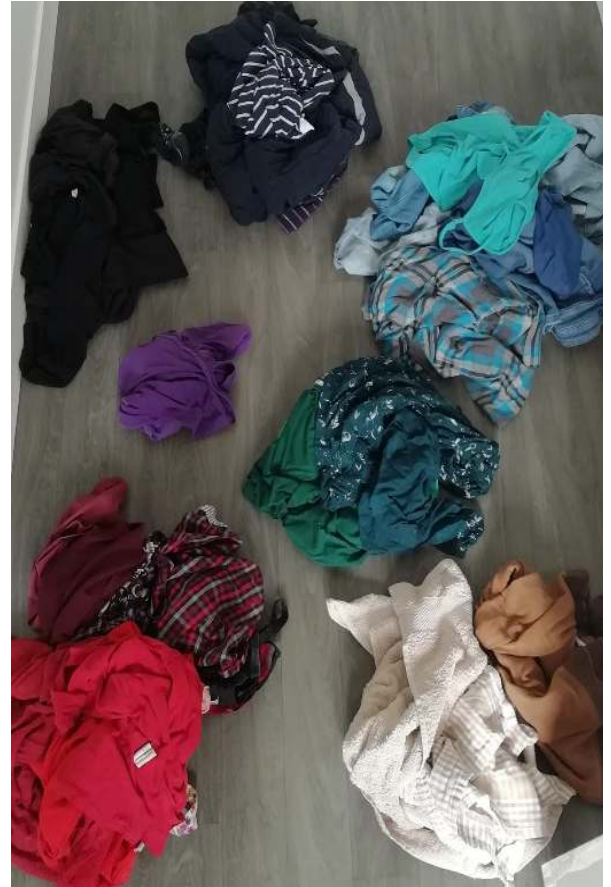
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...Put it with greens...no, rather with light blues

Right!



One last formula for fun

One last formula for fun

It was fun to share this crazy laundry experience... but now... 🤔

One last formula for fun

It was fun to share this crazy laundry experience... what remains to do is not that fun... 😂



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**We hope you enjoy this
everyday_life_example**