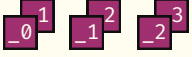


itertools cheatsheet

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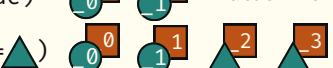


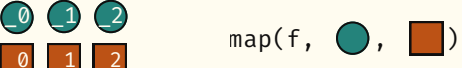
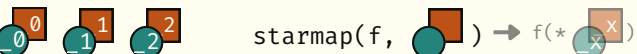
1. Reshaping

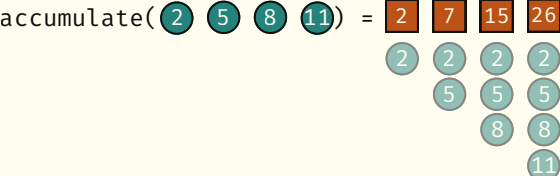
`islice(..., 2)` 
`islice(..., 1, 2)` 
`islice(..., 1, None)` 
`pairwise(...)` 
`groupby(..., color)` 
`groupby(..., shape)` 
`batched(..., 2)` 
`batched(..., 3)` 
`..., strict=True)`  `ValueError`

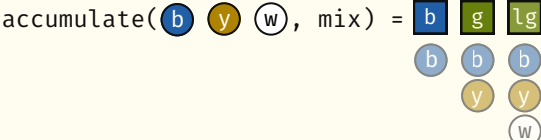
`chain(..., ...)` 
`.from_iterable([..., ...])` 

4. Complementary

`zip(..., ..., strict=True)`  `ValueError`
`zip_longest(..., ..., fillvalue=▲)` 

`map(f, ...)` 
`zip(...)` 
`starmap(f, ...)` 
`f(...)` 

`reduce(+, ...)` 
`accumulate(...)` 

`reduce(mix, ...)` 
`accumulate(..., mix)` 

2. Filtering

`filterfalse(is_blue, ...)` 
`vs filter(is_blue, ...)` 
`takewhile(..., is_blue)` 
`dropwhile(..., is_blue)` 
`compress(..., [T, F, F, T, T])` 

3. Infinite

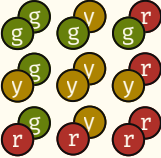
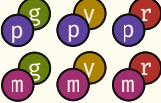
`repeat(▲, 3)` 
`repeat(▲)` 
`cycle([▼, ▲])` 
`count()`

0	1	2	3	4	5	6
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`count(2, 3)`

2	5	8	11	14	17	20
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5. Combinatorial

`product(..., repeat=2)` 
`product(...)` 
`permutations(..., 2)` 
`combinations(..., 2)` 
`_with_replacement(..., 2)` 

6. tee

itertools has 19 iterables + 1 function (tee)
tee forks an iterable into independent iterators