

Introduce `Enumerable#join\_map`

05/30/2025 04:33 PM - matheusrich (Matheus Richard)

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Description Problem The pattern <code>.map { ... }.join(sep)</code> is extremely common in Ruby codebases: <pre>users.map(&:name).join(", ")</pre> It's expressive but repetitive (both logically and computationally). This pattern allocates an intermediate array and does two passes over the collection. Real-world usage is widespread: • Open source Ruby projects using this pattern • Within Rails • Within Ruby itself Proposal Just like <code>filter_map</code> exists to collapse a common <code>map</code> + <code>compact</code>, this proposal introduces <code>Enumerable#join_map</code>, which maps and joins in a single pass. <pre>users.join_map(", ", &:name)</pre> A Ruby implementation could look like this: <pre>module Enumerable def join_map(sep = "") return "" unless block_given? str = +"" first = true each do item str << sep unless first str << yield(item).to_s first = false end str end end</pre> The name <code>join_map</code> follows the precedent of <code>filter_map</code>, emphasizing the final operation (<code>join</code>) over the intermediate (<code>map</code>). Prior Art Some other languages have similar functionality, but with different names or implementations: Elixir Elixir has this via the Enum.map_join/3 function:	

```
Enum.map_join([1, 2, 3], &(&1 * 2))  
"246"
```

```
Enum.map_join([1, 2, 3], " = ", &(&1 * 2))  
"2 = 4 = 6"
```

Crystal

Crystal, on the other hand, [uses Enumerable#join with a block](#):

```
[1, 2, 3].join(", ") { |i| -i } # => "-1, -2, -3"
```

Kotlin

Kotlin has a similar [function called joinToString](#) that can take a transformation function:

```
val chars = arrayOf('a', 'b', 'c')  
println(chars.joinToString() { it.uppercaseChar().toString() }) // A, B, C
```