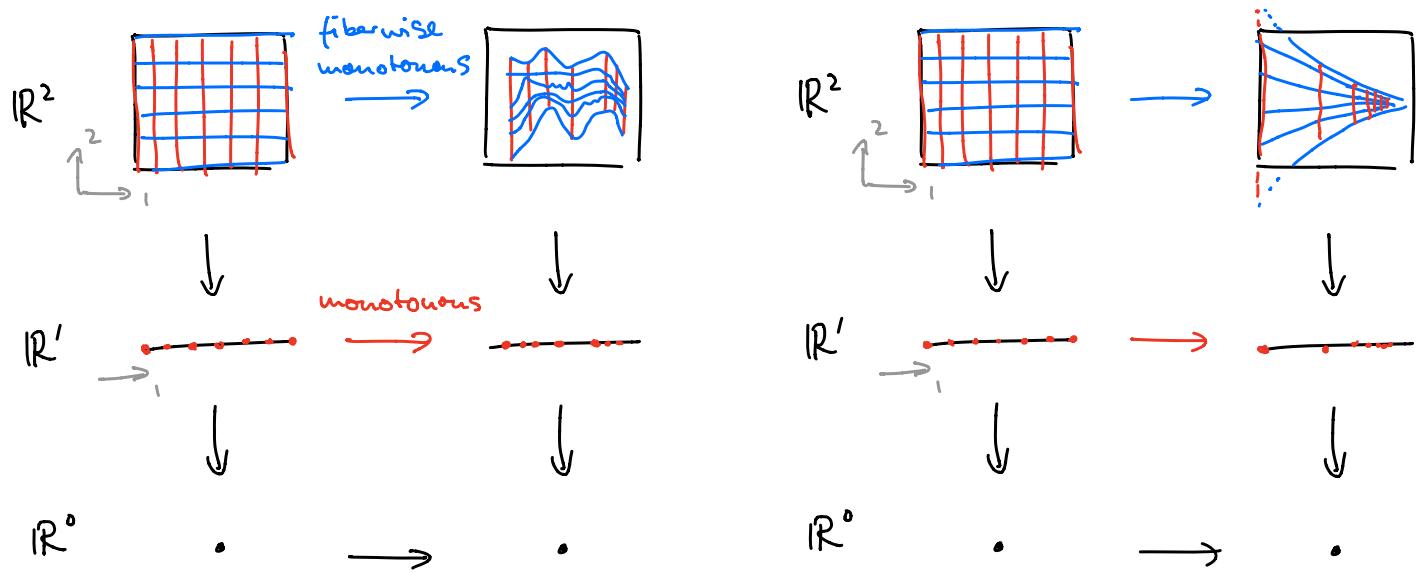


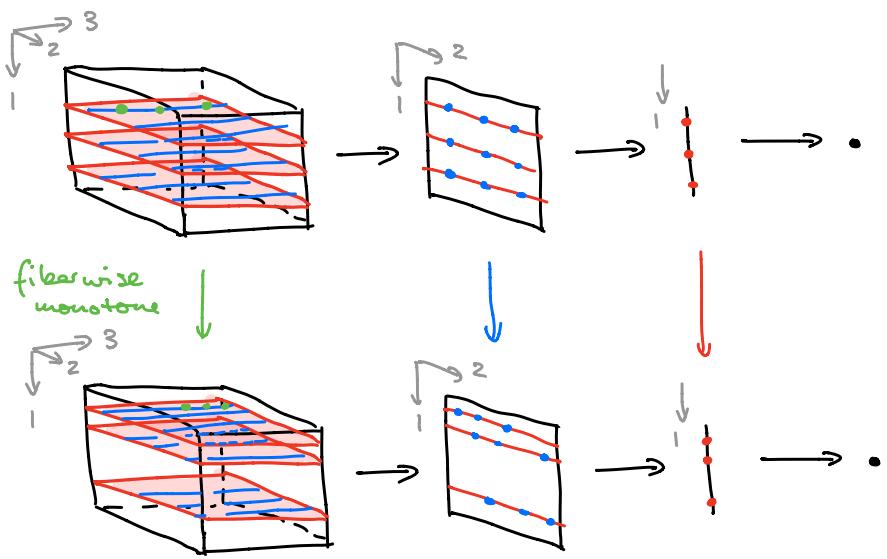
1. Examples of framed maps



2. Non-examples

- reflection of any coordinate $\mathbb{R}^n \rightarrow \mathbb{R}^n$
- any map that's not a homeomorphism onto its image (this changes if we replace "strictly monotonic" with "non-strictly monotonic" in definition)
- any non-identity rotation in $O(n)$

(3) Visualizing framed maps $f: \mathbb{R}^3 \rightarrow \mathbb{R}^3$



(4.) $\text{Aut}_{\text{fr}}(\mathbb{R}^n)$ is contractible

Here's a deformation retraction to $\text{id}: \mathbb{R}^n \rightarrow \mathbb{R}^n$:

$$\varepsilon: \text{Aut}_{\text{fr}}(\mathbb{R}^n) \times [0, 1] \rightarrow \text{Aut}_{\text{fr}}(\mathbb{R}^n)$$

$$(F, \lambda) \mapsto \lambda \cdot \text{id} + (1 - \lambda) \cdot F$$