MELODY 1 → ENCODING → LATENT CODE (= Z) → DECODING → MELODY 2
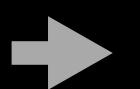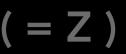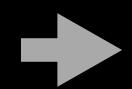
ENCODING
= COMPRESSION
: Can represent variation of real data in lower-dimensional space

LATENT CODE (= Z)
: representation of latent space

DECODING
= DECOMPRESSION
: Can reconstruct real examples with high accuracy

MELODY 1 → **ENCODING** → **LATENT CODE**
$(= Z)$
→ **DECODING** → **MELODY 2**

= COMPRESSION

: Can represent
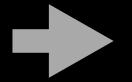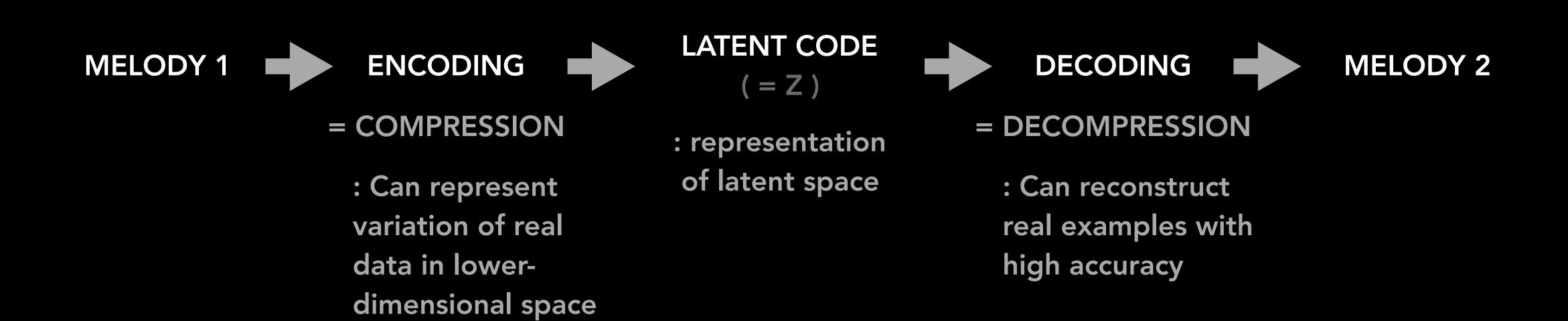variation of real
data in lower-
dimensional space

: representation
of latent space

= DECOMPRESSION

: Can reconstruct
real examples with
high accuracy

→ **Can be used to perform semantically meaningful transformations**