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## homomorphic image of a $\Sigma$ -structure is a $\Sigma$ -structure

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Let  $\Sigma$  be a fixed signature, and  $\mathfrak{A}$  and  $\mathfrak{B}$  two structures for  $\Sigma$ . If  $f : \mathfrak{A} \rightarrow \mathfrak{B}$  is a homomorphism, then  $\text{im}(f)$  is a structure for  $\Sigma$ .