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## Galois closure

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Let  $K$  be an extension field of  $F$ . A *Galois closure* of  $K/F$  is a field  $L \supseteq K$  that is a Galois extension of  $F$  and is minimal in that respect, i.e. no proper subfield of  $L$  containing  $K$  is normal over  $F$ .