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## Néron-Severi group

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**Definition 1.** *Let  $S$  be a surface (an algebraic variety of dimension 2) defined over an algebraically closed field  $k$ . The Néron-Severi group of  $S$ , denoted by  $\text{NS}(S)$ , is the group of Weil divisors on  $S$  modulo algebraic equivalence of divisors (see parent entry).*

**Theorem** (Néron, Severi). *The Néron-Severi group of a surface is a finitely generated abelian group.*