Dictionary

Geometry	Algebra
X q.-a. variety	$k[X]$
Closed subsets in X	ideals in $k[X]$
$D(f)$, $f \in k[X]$	$k[X]_f$
$X \times Y$	$k[X] \otimes_k k[Y]$
irreducible X	$k[X]$ domain
points in X	maximal ideals in $k[X]$
irred closed subsets in X	prime ideals in $k[X]$
irreducible components of X	minimal prime ideals in $k[$
regular maps	k-algebra homs
birational equiv. class of X	$k(X)$
dominant rat. map $X \to Y$	field homs $k(Y) \to k(X)$
closed irred. containing $Z \subset X$	prime ideals in $\mathcal{O}_{X,Z}$
components of X containing Z	minimal prime ideals in $\mathcal{O}_X$