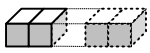
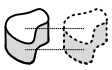
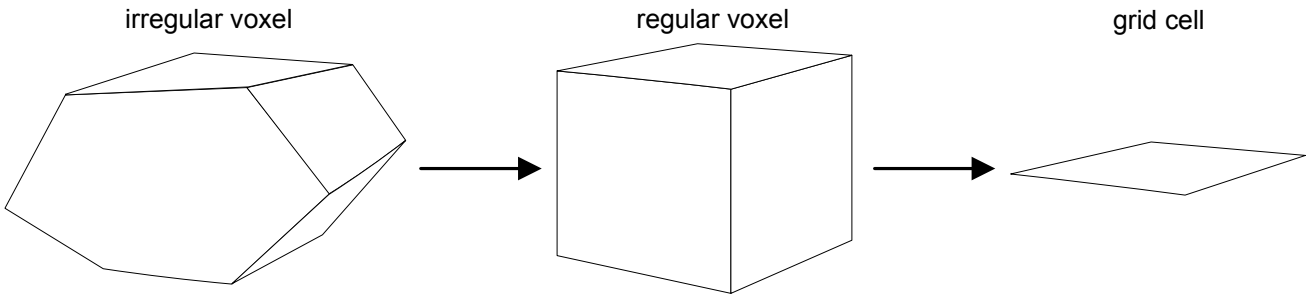
		Point / line	*Regular (block)*	*Irregular (area)*
2D	*Latitude, longitude*	`SpatialPoints`	`RasterLayer` `SpatialGrid` `SpatialPixels`	`SpatialPolygons`
3D	*Latitude, longitude, altitude (thickness)*	`SoilProfile`	Voxels* Monoliths*	Irregular voxels*
2D+T	*Latitude, longitude, time*	`STFDF` `STIDF` `STTDF`	`STFDF` `RasterBrick`	`STFDF`
3D+T	*Latitude, longitude, altitude, time*	Time-series of profiles*	 Time-series of voxels*	 **Time-series of irregular voxels (space-time prisms)***

*Classes not yet available in R.


irregular voxel
regular voxel
grid cell