

## Stereographic projection

This map is a one-to-one correspondence between all the points on the sphere except the North Pole $\boldsymbol{N}$ and the tangent plane to the sphere at the South Pole $\boldsymbol{S}$. The points $\boldsymbol{P}$ and $\boldsymbol{P}^{\prime}$ correspond under stereographic projection in this picture, and the South Pole $\boldsymbol{S}$ is sent to itself. Another illustration of stereographic projection is given below.


