

points-join: join two point clouds with variable search radius

Suppose, you have two point clouds **cloud 1** and **cloud 2**. Suppose, for each point **P** from **cloud 1** you would like to get all the points from **cloud 2** that are not farther then a given radius from **P**.

Then, you could use **points-join --all**:

```
> cat cloud-1.csv | points-join cloud-2.csv --radius 1.5 --all
```

Now, you also can specify variable radius for points in **cloud 1**. (E.g. your radius may vary depending on your point cloud density or structure, as it happened in our use case.)

Then you could run:

```
> cat cloud-1.csv | points-join --fields x,y,z,radius cloud-2.csv --radius 1.5 --all
```

(Note that, as a limitation, the point-specific radius should not exceed --radius value.)