JoinPL.tml

Joins Plines

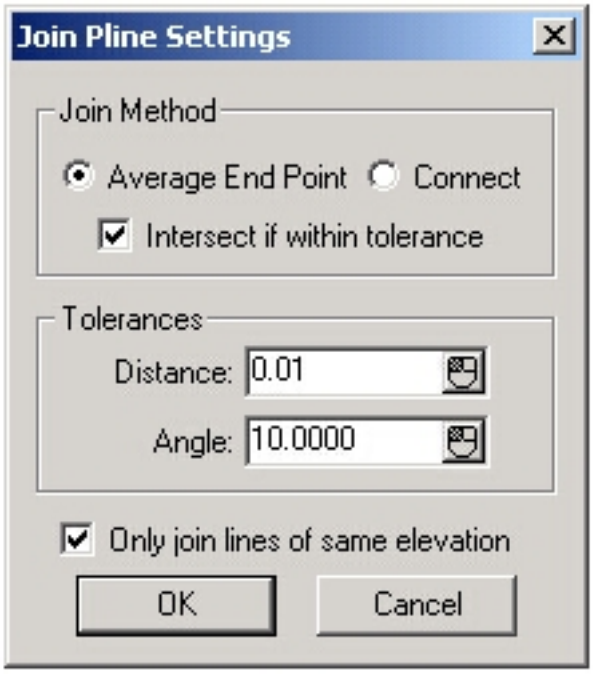
Importing contour data can have a variety of problems including un-joined segments and no elevations. Joining the segments can be very timely if the segments are not exactly adjacent. If elevations need to be assigned, the segments need to be joined. **JoinPl.tml** will allow a tolerance of separation and join the end points of plines that are within the tolerance. This command is going to save you days of work!

With JoinPl.tml you have several options available to help create the desired linework including tolerance settings and joining methods.

JoinPl.tml can do the following:

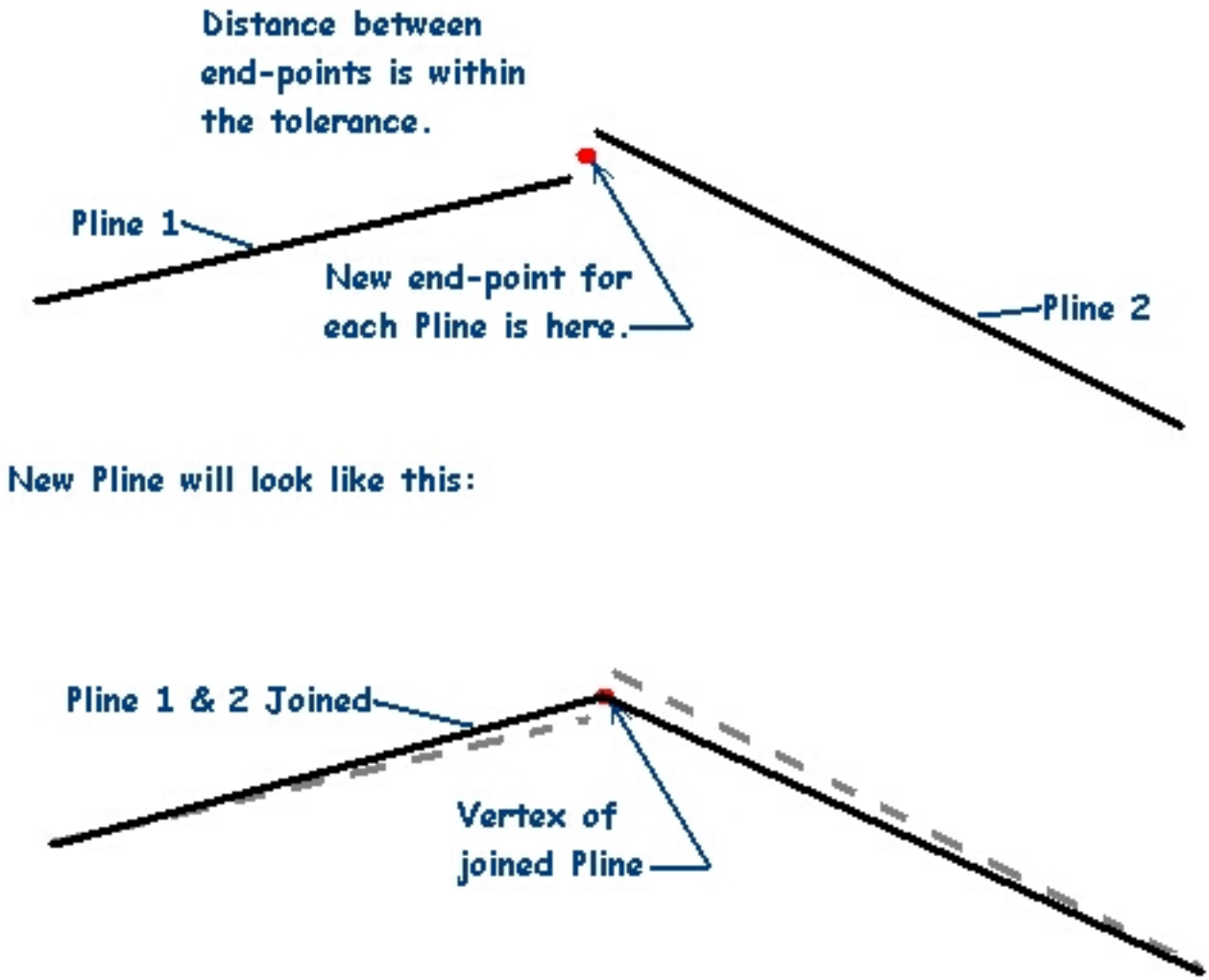
- Find all Plines where their end points fall within a tolerance distance.
- Find all Plines that have the same elevation.
- Join the Plines found above.
- Set an angle tolerance to prevent Plines from being joined which is very useful if you are using **JoinPl** to join Plines that represent alignments. This setting would prevent alignments in Intersections from being joined.

The JoinPl command:



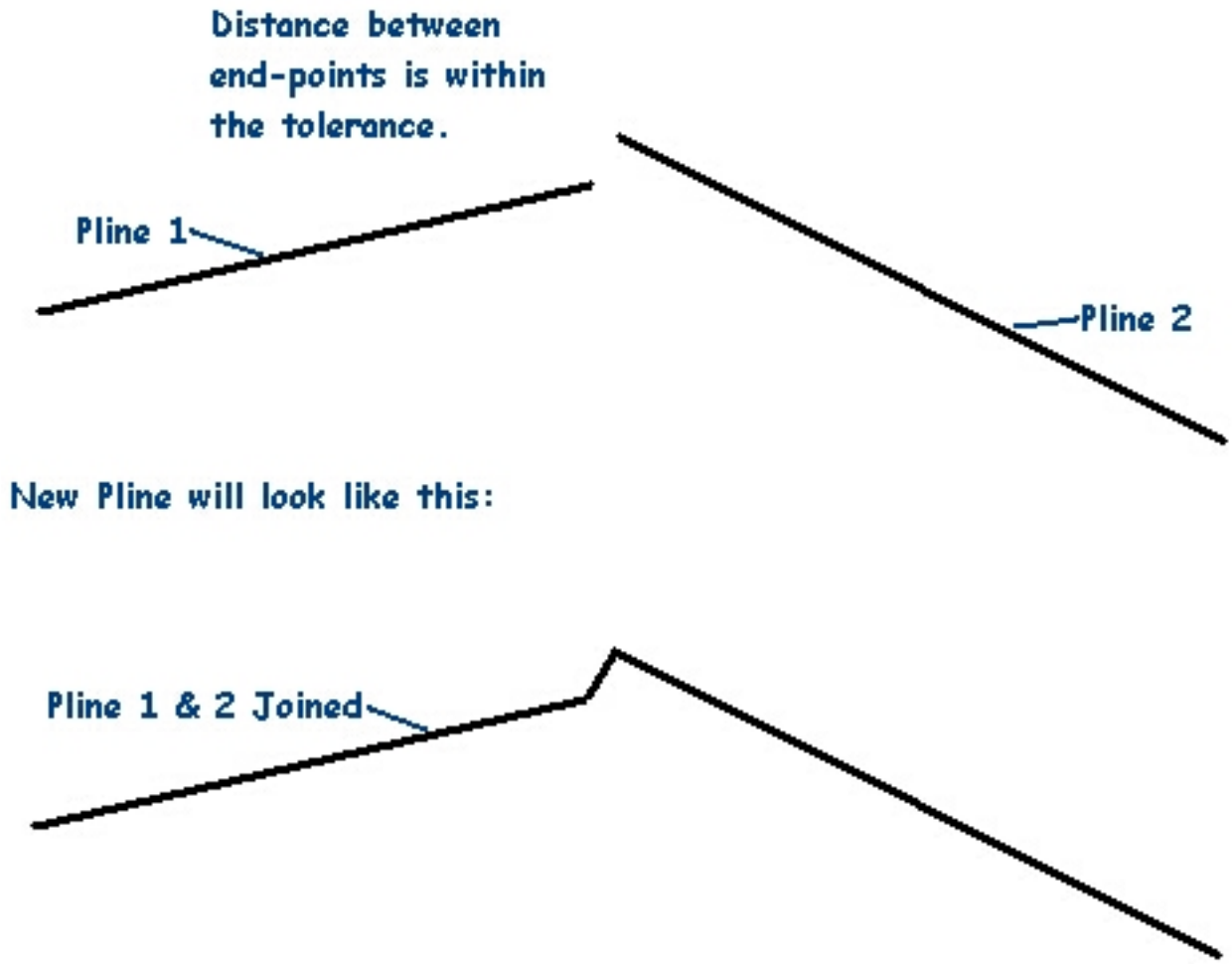
Explanation of Each Item:

1. *Average End Point Method:*
    - Plines are joined at the midpoint between the two end points of the Plines. This will change the bearings of the two Plines.



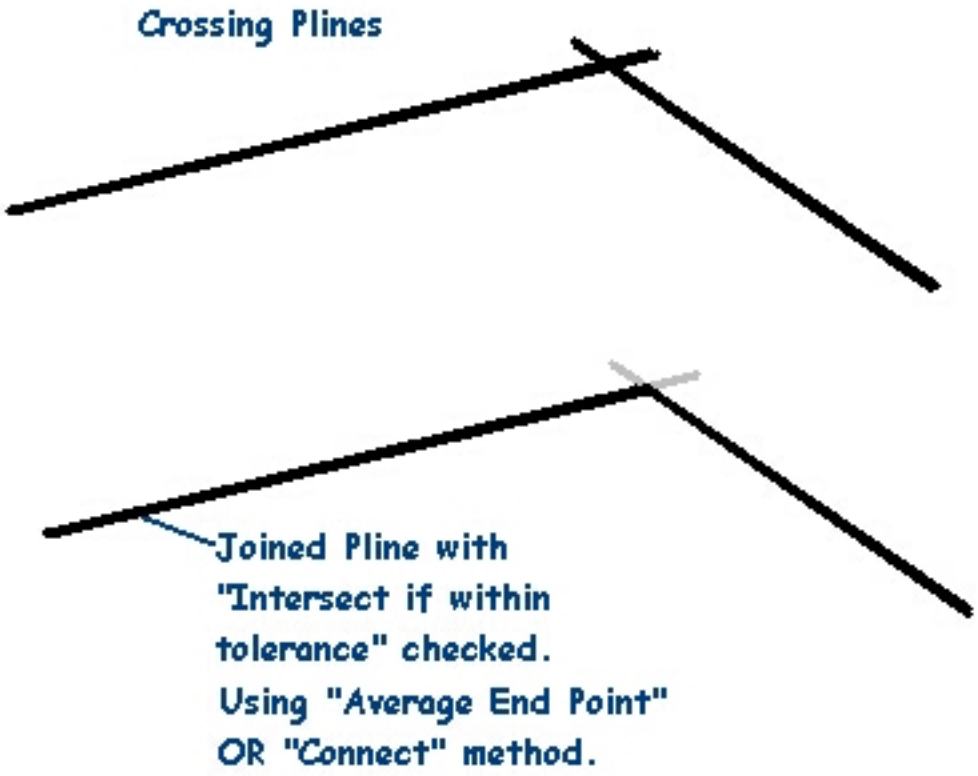
2. *Connect Method:*

- Plines that are joined retain the original bearing. This method will connect the two plines with a new segment forcing the Plines to join.

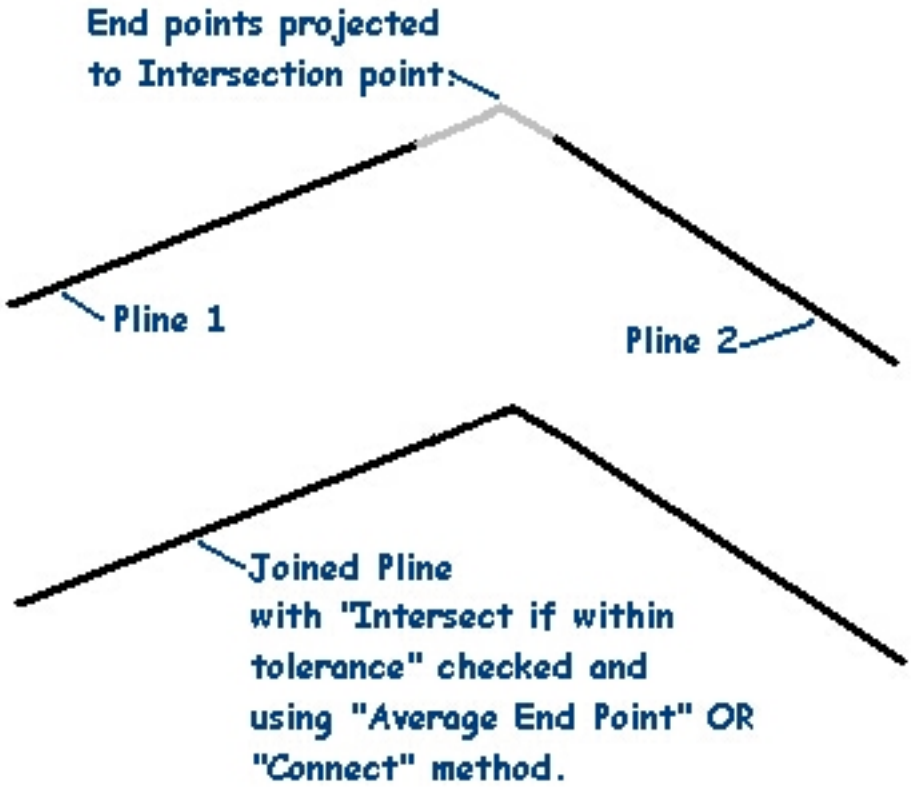


3. *Intersect if within tolerance:*

- If the Plines cross and the intersection is within the tolerance, this method joins the Plines at the intersection.

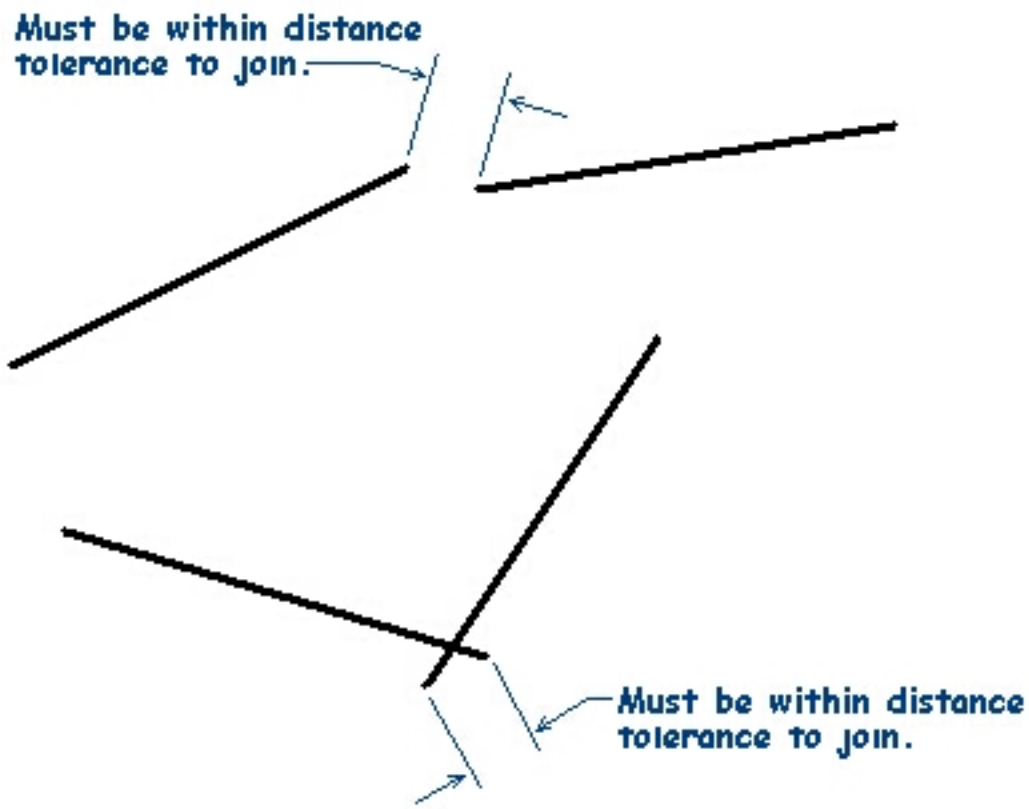


- If Plines are not crossing and you are using the *Connect Method,* the bearings of the Plines are projected and joined at the intersection if possible.

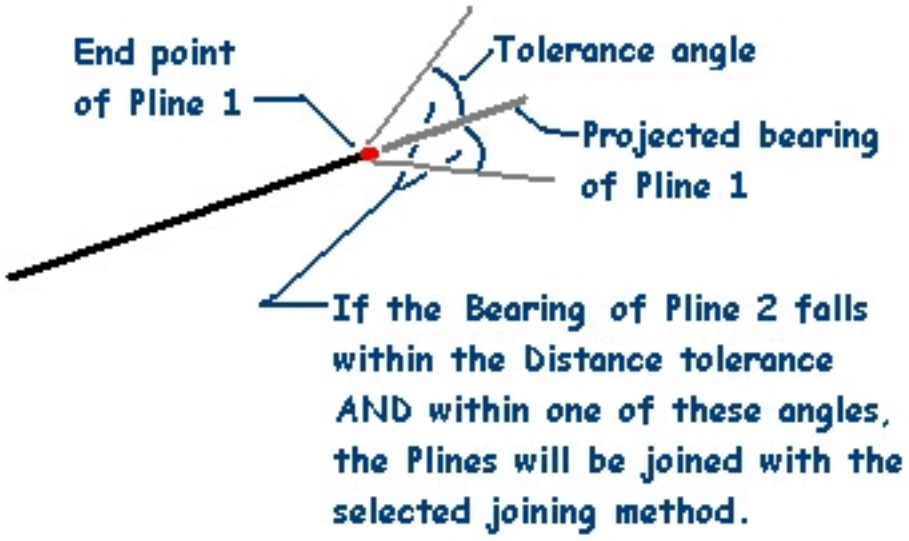


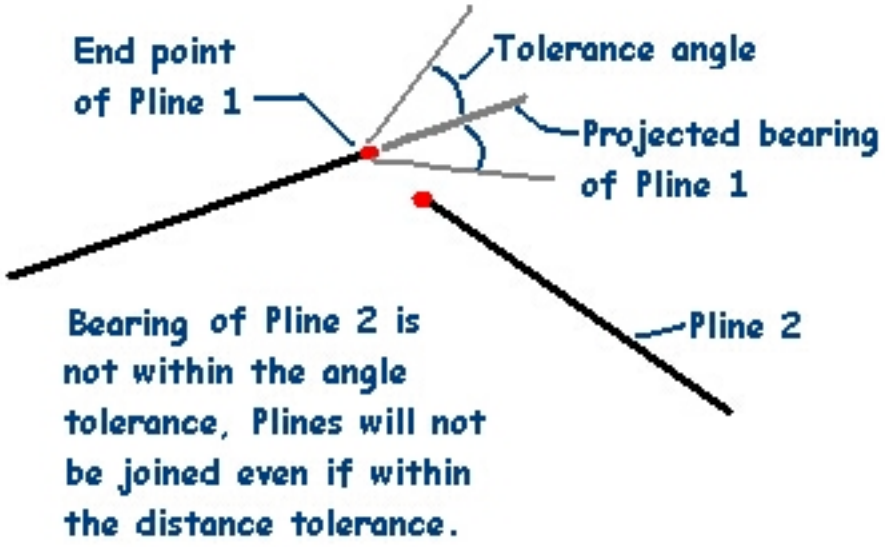
4. *Tolerances:*

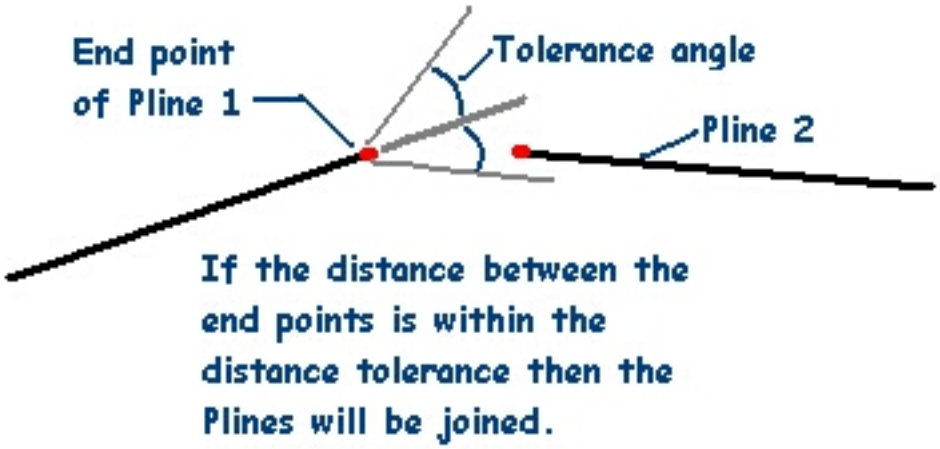
- If the end points of Plines are within the tolerances, *Distance* and *Angle,* then the Plines will be joined.
- **Distance:** End points of Plines must be within the distance tolerance to be joined.



- **Angle:** This setting is useful if you are joining Plines for alignments. You probably do not want to join Plines if the alignments form T-Intersections. If a Pline with a bearing of North 90 East intersects with a Pline with a bearing of North 45 East, then the *angle tolerance* will have to be at least 45 degrees. This is easier to demonstrate with pictures:





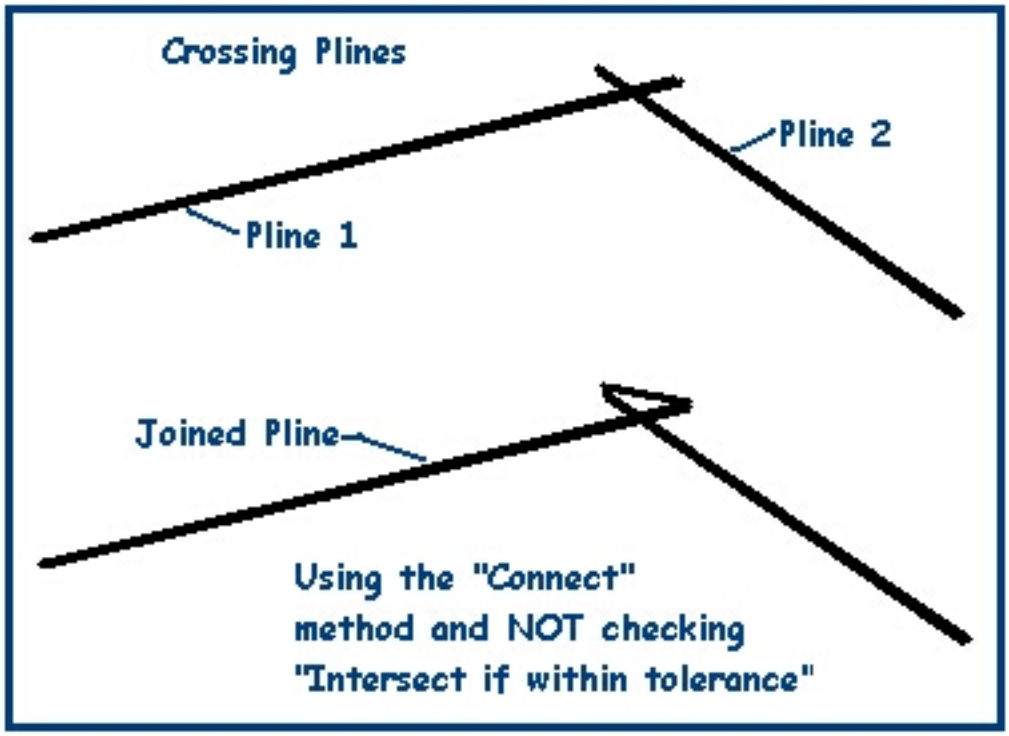


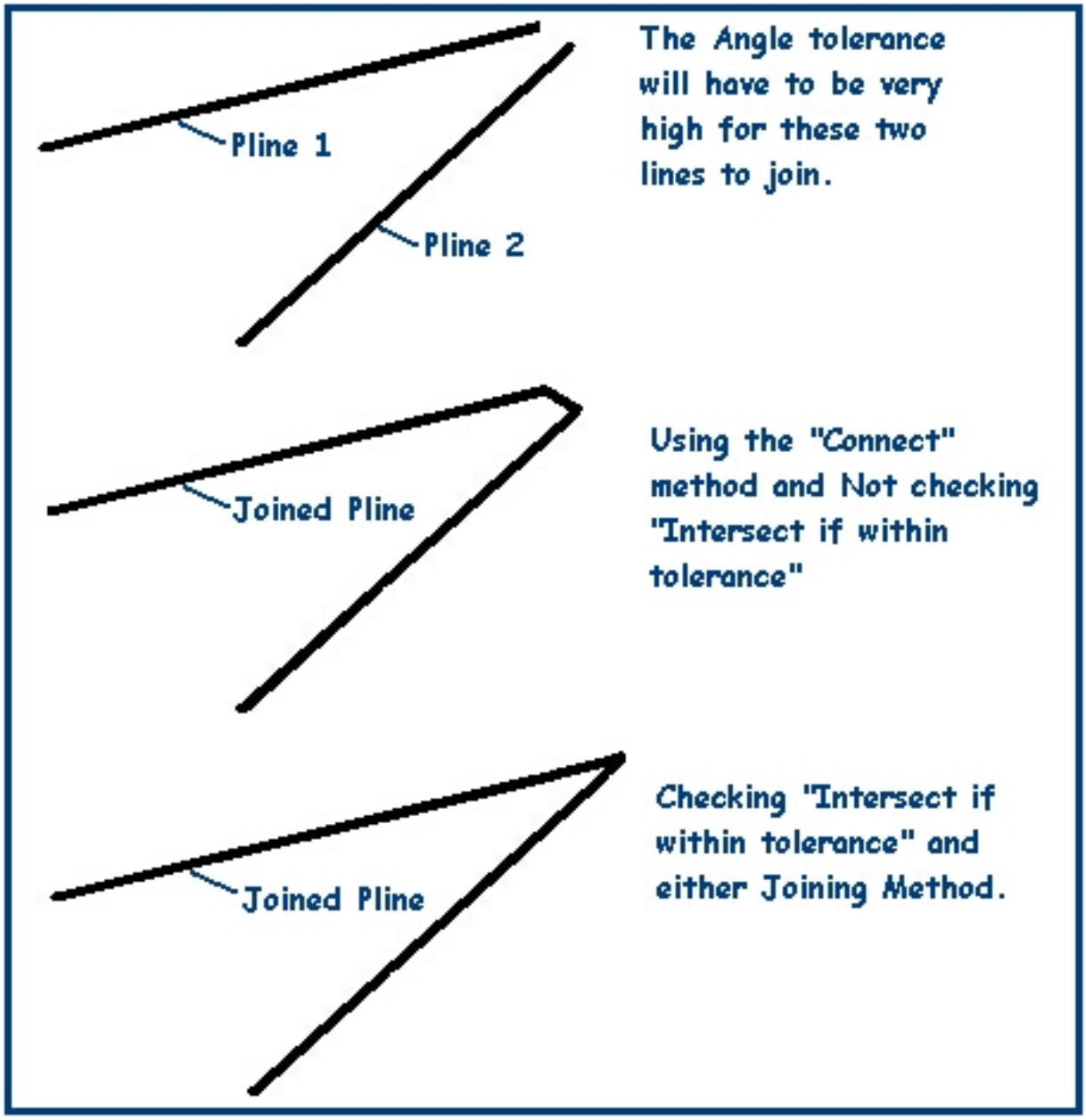
- **NOTE:** If the *Angle tolerance* is set to 180, then all Plines within the *Distance tolerance* will be joined.

5. *Only join lines of same elevation:* If this option is checked, then only Plines with the same elevations will be joined.

6. Only Plines on the same layer will be joined. You may need to *Relayer* Plines to get **JoinPl** to work.

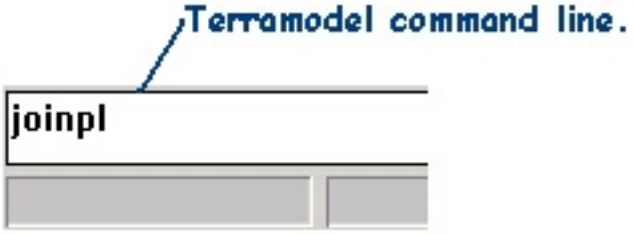
More Examples:





How to use the JoinPl command:

After downloading *JoinPl.** to the *Terramodel installation folder\Terramodel\tmls* folder, open a Terramodel project and type *joinpl* at the Terramodel command line:



You will see:

Programmer's Notes:

This command is really COOL!