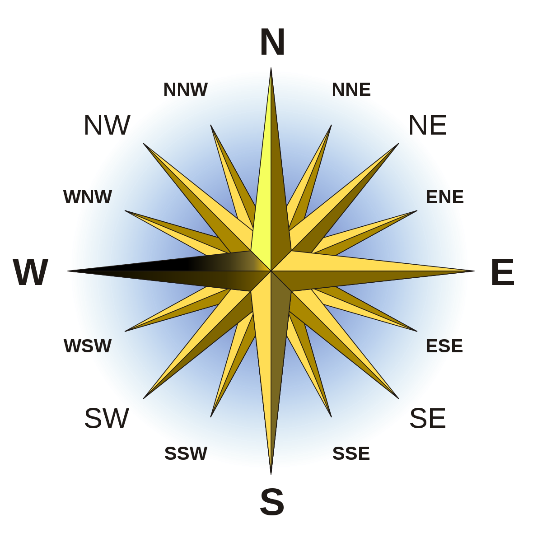
1. Pre-processing
   1. Checks
      1. Check a cell DF + other tests
      2. Validate cell DF
   2. Delete <Empty>
2. Data Cell and Attribute Cell Separation

**Definitive function**

1. get\_group\_id
2. get\_direction\_df



**Ai function**

1. ai\_get\_data\_attr\_map\_main
   1. ai\_get\_data\_attr\_map
      1. get\_direction\_df (this I think can be linked to intra block dist)
   2. ~~if crude\_join~~ (this is problematic) (delinked)
      1. ~~ai\_crude\_data\_block\_joins~~
   3. ai\_relative\_data\_split\_attr (main place to work)
   4. ~~ai\_get\_data\_attr\_map\_details~~ renamed to ai\_get\_dimention\_analysis\_details
2. ai\_data\_gid\_join
   1. is\_attachable
   2. ~~get\_links\_df~~ (this seems unnecessarily complicated) removed as gid\_map\_link\_tune introduced.
   3. get\_group\_id\_join\_gids

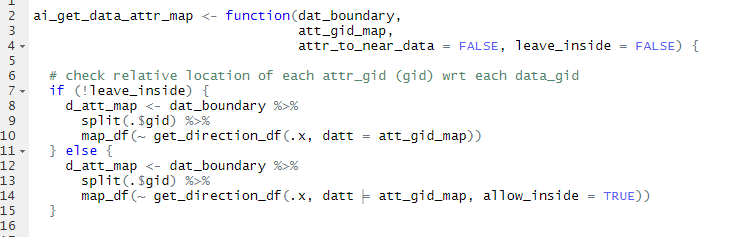
**ai\_get\_data\_attr\_map**

ai\_get\_data\_attr\_map <- function(dat\_boundary,

att\_gid\_map,

attr\_to\_near\_data = FALSE, leave\_inside = FALSE)

Need to fix (can be kept without if block)



d\_att\_map has all maps wrt each data boundary

d\_gid\_att\_map gets md min dist between each attr\_gid and data\_gid and direction group

d\_gid\_att\_map\_min\_d attach each data\_gid to nearest attr\_gid for all directions.

map -> mapping (data\_gid to nearest attr\_gid + attr\_gid to nearest data\_gid if attr\_to\_near\_data)

all\_map -> all other mapping

raw -> attr gid’s cell level information

lo <- list(map = d\_gid\_att\_map\_min\_d, all\_map = d\_gid\_att\_map, raw = d\_att\_map)

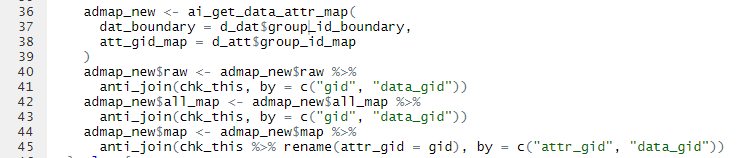
md need to change - done

leave inside ???

ai\_relative\_data\_split\_attr

This may not be required

(Changed)



ai\_get\_data\_attr\_map\_details

major minor classification

name change suggested ai\_get\_data\_attr\_map\_details done

ai\_data\_gid\_join

nearby gids first