Extension of BRIN indexing on geospatial objects

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http://www.slideshare.net/GiuseppeBroccolo/gbroccolo-foss4-geugeodbindex
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What's going wrong with indexes:

- Maintainance
- Size: ~O(table)
- Are indexes contained in RAM?
A possible solution...

S. Riggs, A. Herrera

BRIN Indexes:
- Block level Indexes
- Low maintenance
- small (really small)
BRIN on geospatial objects:

- defined the `box_inclusion_ops` OpClass
  . works with `box` datatype
E. Hasegeli

BRIN on geospatial objects:

- added a new support function for the OpClass . cast point to its box
- defined the point_inclusion_ops OpClass . works with point & box datatype
Extend BRIN to geometry PostGIS datatype:

- **geometry** is a *varlena*
  
  problems to contain just one index node into a single page

- cast **geometry** to its **box2d/box3d**
Works are in progress:

- Ops, Funcs, OpClasses...
- A little “community”:
  - me & L. Cecchi
  - Thanks to A. Herrera & E. Hasegeli for their help

We want to increase it!

Everyone is welcome!
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