

Extension of BRIN indexing on geospatial objects

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<http://www.slideshare.net/GiuseppeBroccolo/gbroccolo-foss4-geugeodbindex>



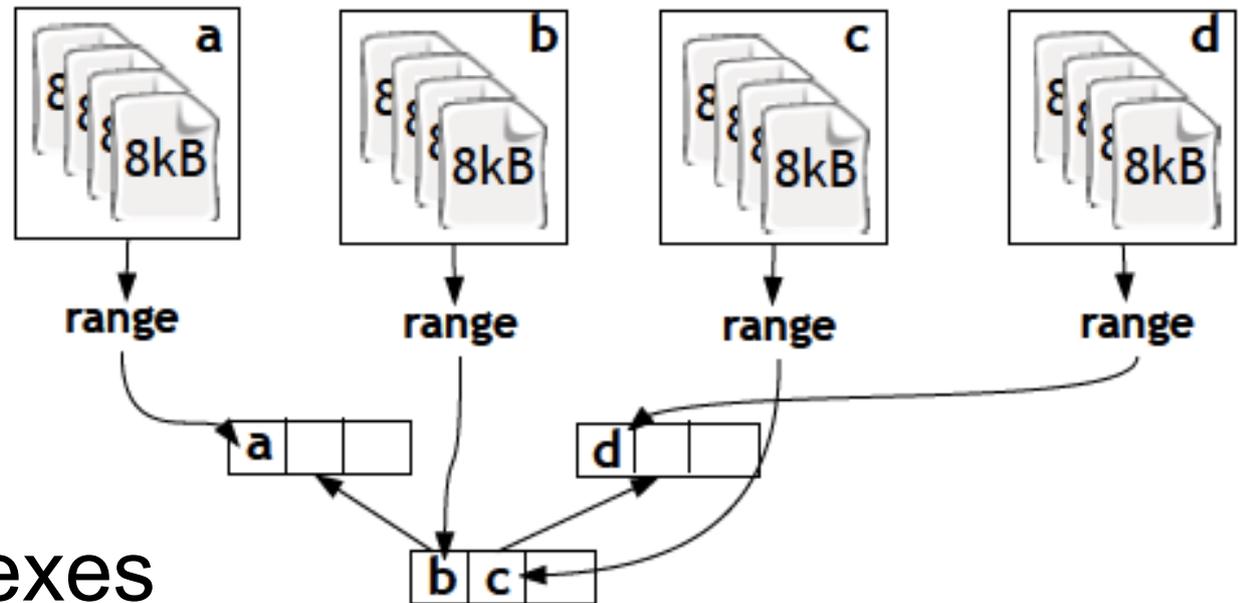
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What's going wrong with indexes:

- Maintenance
- Size: $\sim O(\text{table})$
- Are indexes contained in RAM?

A possible solution...

S. Riggs, A. Herrera



BRIN Indexes:

- Block level Indexes
- Low maintenance
- small (really small)

A. Herrera

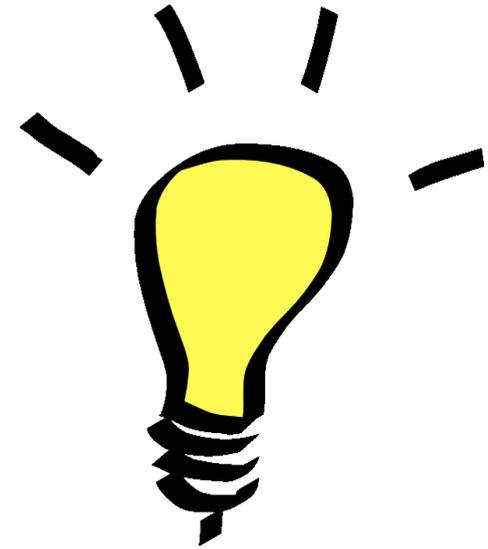
BRIN on geospatial objects:

- 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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