data pre-processing → EDA → modeling & simulation → post-processing → comparison & assessment

"Raw" data

Outside model fit and/or simulation of fit

Transformation of agents to aggregate view: `agents_to_aggregate`

SIR specific EDA:
- group exploration: `geom_aggregate`
- general visuals: `geom_point` or `path` + `coord_tern`

Model simulation:
Bernoulli approximation of ODE state models:
- `simulate_agents` -or- `simulate_SIR_agents` + `agents_to_aggregate`

- Time invariant transformations: `filament_compression`
- Filament and l_2 distance through `dist_matrix_innersq_direction` ++ `tidy_dist_mat` + `not_df`

`fortify` (aggregate view)

Prediction region (creation and examination):
- SIR: `geom_prediction_band`
- General: `create_[convex_hull / delta_ball]_structure`
+ containment: `contained`

(Distance-centric) extremeness assessment through:
- pseudo-density: `distance_pseudo_density_function`
- or depth estimation `distance_depth_function`, `local_distance_depth_function`

Contains time-invariant tools