INTRO TO GISc

GEOPROCESSING (2)

AGENDA

- 1. Follow-up
- 2. GISc & Public Policy
- 3. Tables
- 4. Customizing Symbols
- 5. Merge
- 6. Intersect
- 7. Union

1 FOLLOW-UP

2 GISc & PUBLIC POLICY

3 TABLES

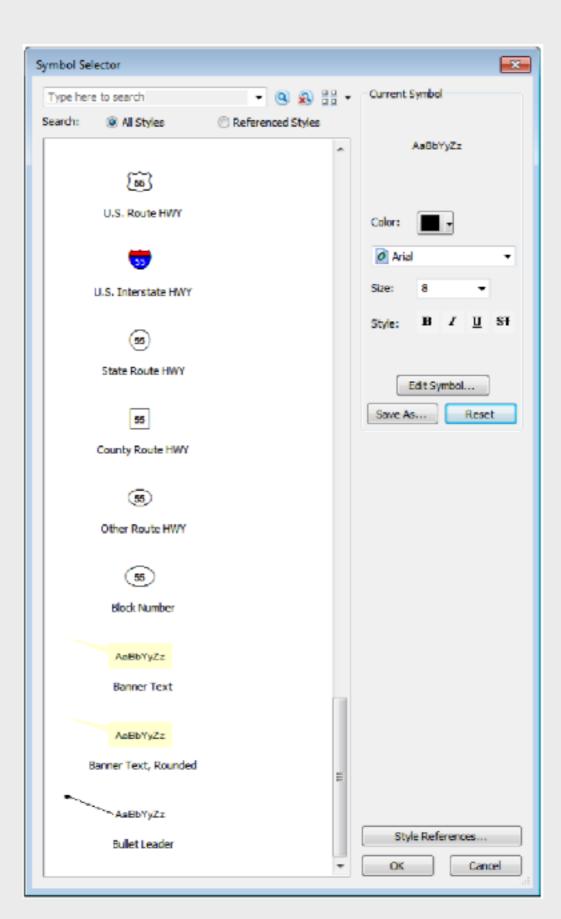
Table 1 - Frequency of Observations by Year

Year	Count*	Percent
2009	120	7.95%
2010	240	15.90%
2011	365	24.19%
2012	784	51.95%

Note: * - Count covers "VACANT BLDG" observations in the CSB data.

4 CUSTOMIZING SYMBOLS

SPECIAL SYMBOLS



5 MERGE

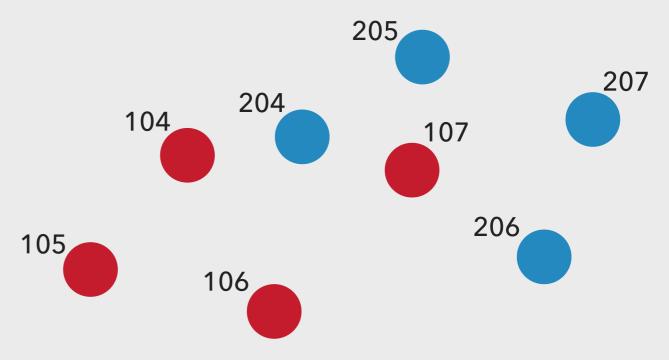
HOW TO COMBINE FEATURE CLASSES WITH RELATED DATA?

MERGE

Input Datasets

ID	Shape	Туре
104	Point	Α
105	Point	Α
106	Point	Α
107	Point	Α

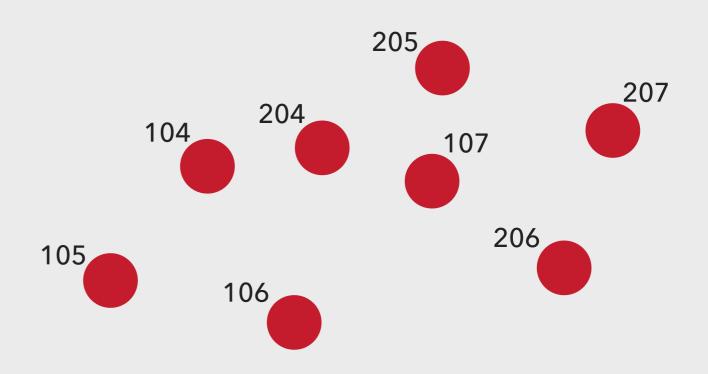
ID	Shape	Туре
204	Point	В
205	Point	В
206	Point	В
207	Point	В



MERGE

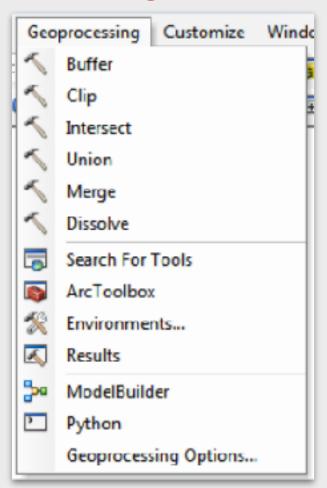
Output Dataset

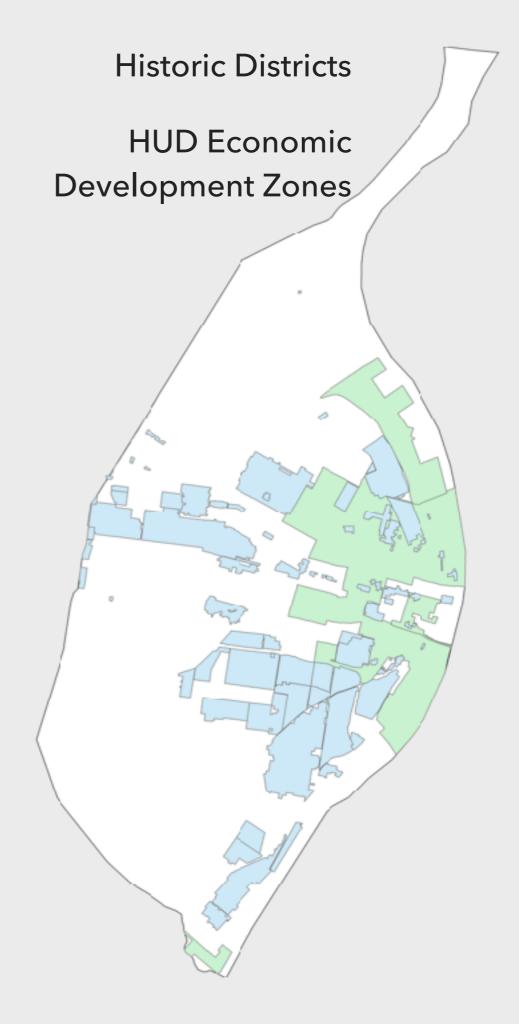
ID	Shape	Туре
104	Point	Α
105	Point	Α
106	Point	Α
107	Point	Α
204	Point	В
205	Point	В
206	Point	В
207	Point	В



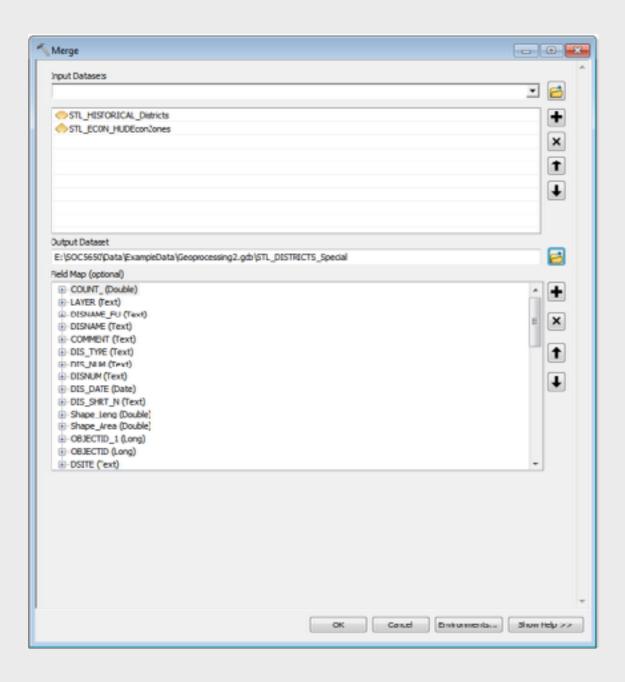
MERGE EXAMPLE **HUD** Economic **Historic Districts Development Zones**

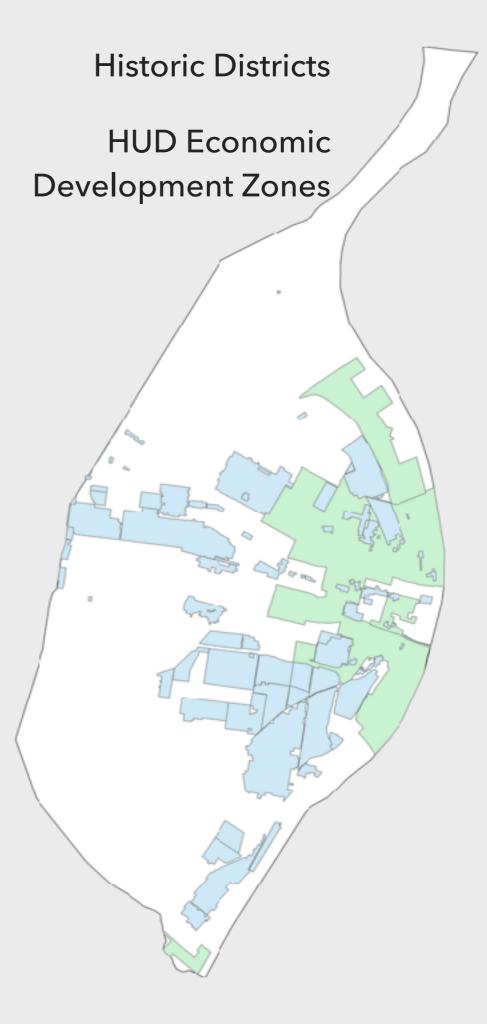
MERGE EXAMPLE



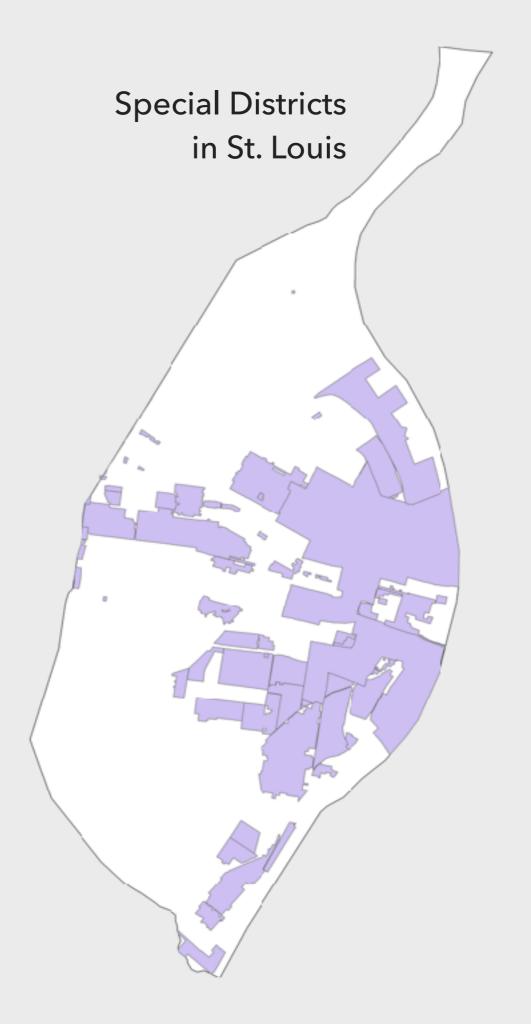


MERGE EXAMPLE





MERGE EXAMPLE



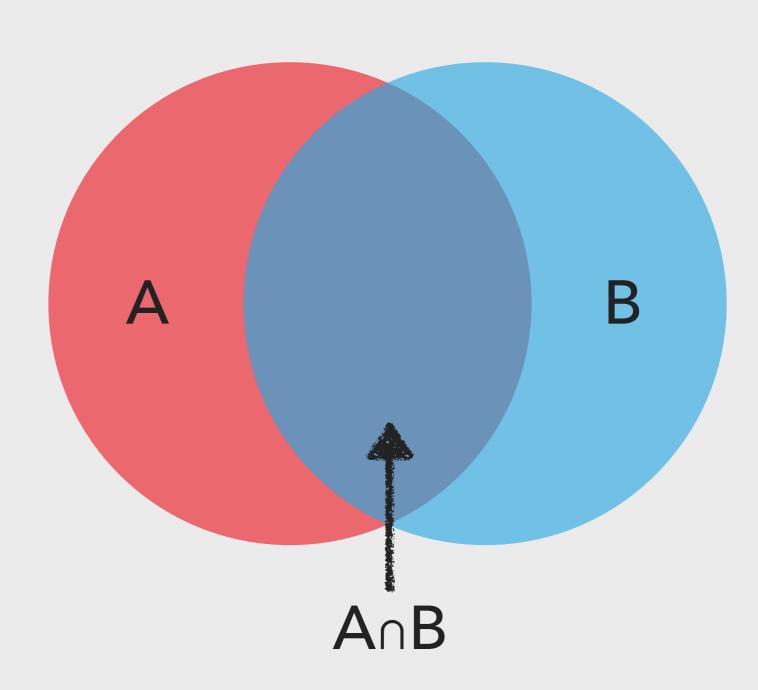
6 INTERSECT

HOW COMBINE OVERLAPPING DATA AND ATTRIBUTES FROM TWO LAYERS?

INTERSECT IN PROBABILITY THEORY

- "A intersect B" ...
- ... means "both A and B"

In other words, the area of overlap between A and B



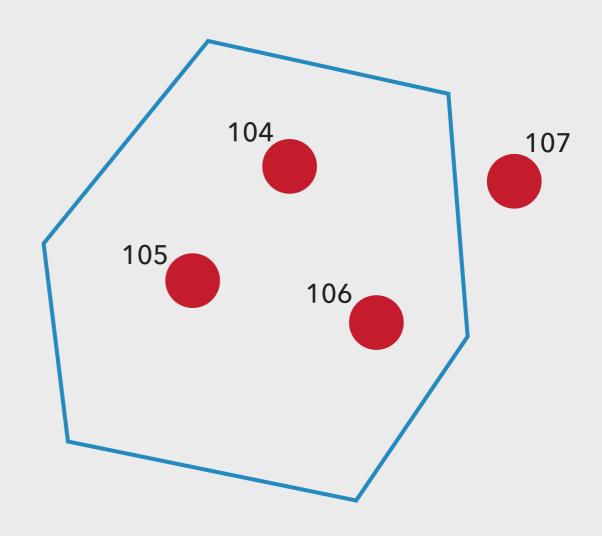
INTERSECT WITH POINT DATA

Input Features

ID	Shape	Туре
104	Point	Α
105	Point	В
106	Point	Α
107	Point	В

Intersect Features

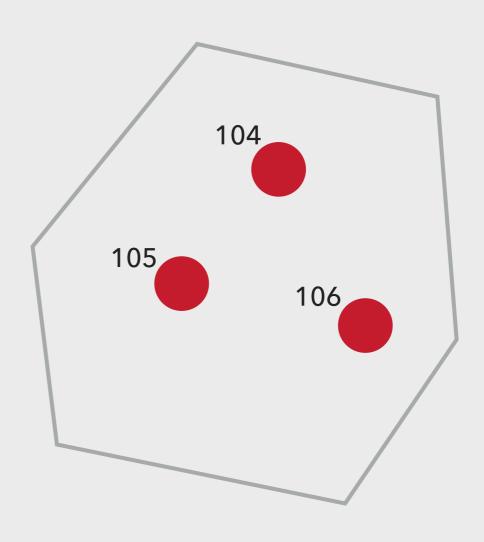
ID	Shape	Zone
23	Polygon	2



INTERSECT WITH POINT DATA

Output Features

ID	Shape	Туре	Zone
104	Point	Α	2
105	Point	В	2
106	Point	Α	2



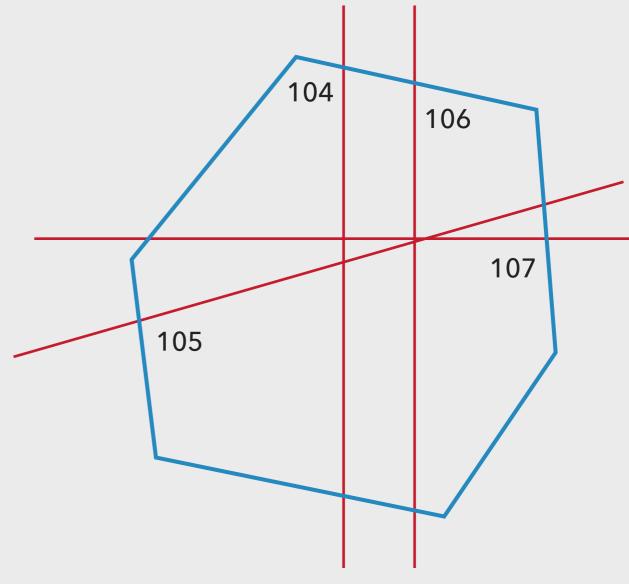
INTERSECT WITH LINE DATA

Input Features

ID	Shape	Туре
104	Line	Α
105	Line	В
106	Line	Α
107	Line	В

Intersect Features

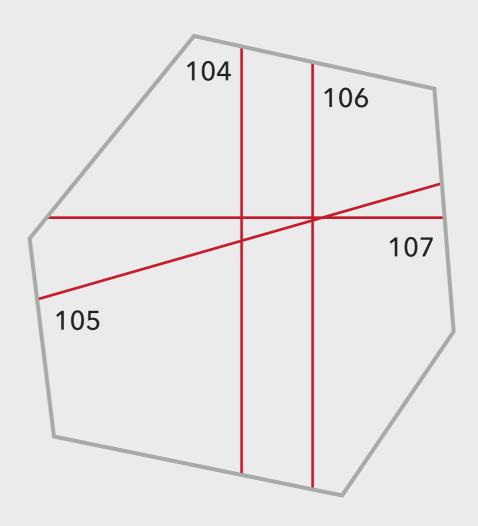
ID	Shape	Zone
23	Polygon	2



INTERSECT WITH LINE DATA

Output Features

ID	Shape	Туре	Zone
104	Line	Α	2
105	Line	В	2
106	Line	Α	2
107	Line	Α	2



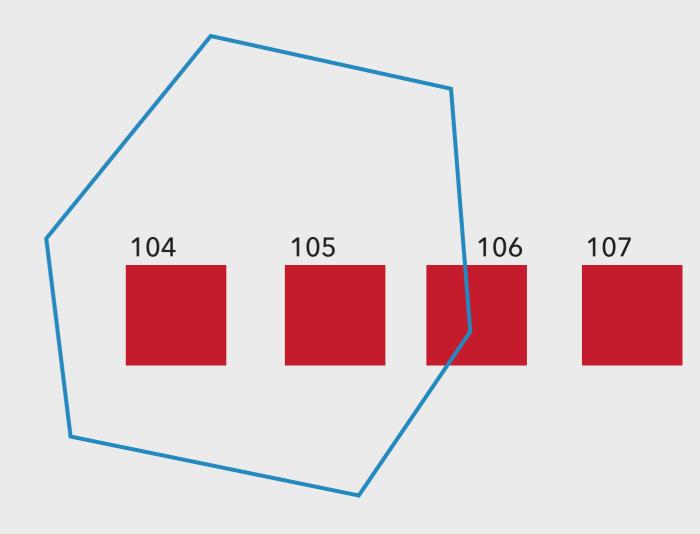
INTERSECT WITH POLYGON DATA

Input Features

ID	Shape	Туре
104	Polygon	Α
105	Polygon	В
106	Polygon	Α
107	Polygon	В

Intersect Features

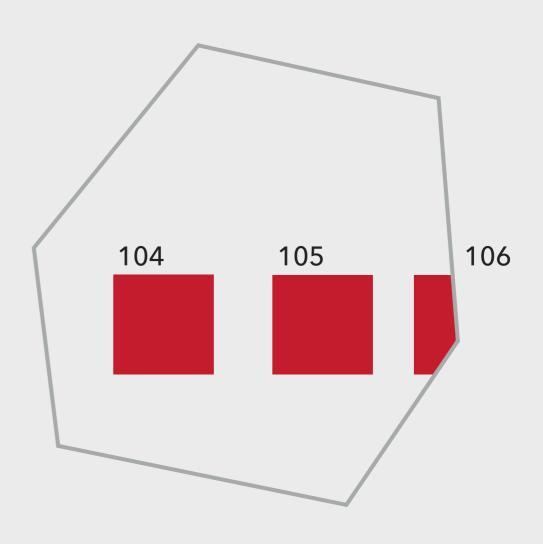
ID	Shape	Zone
23	Polygon	2

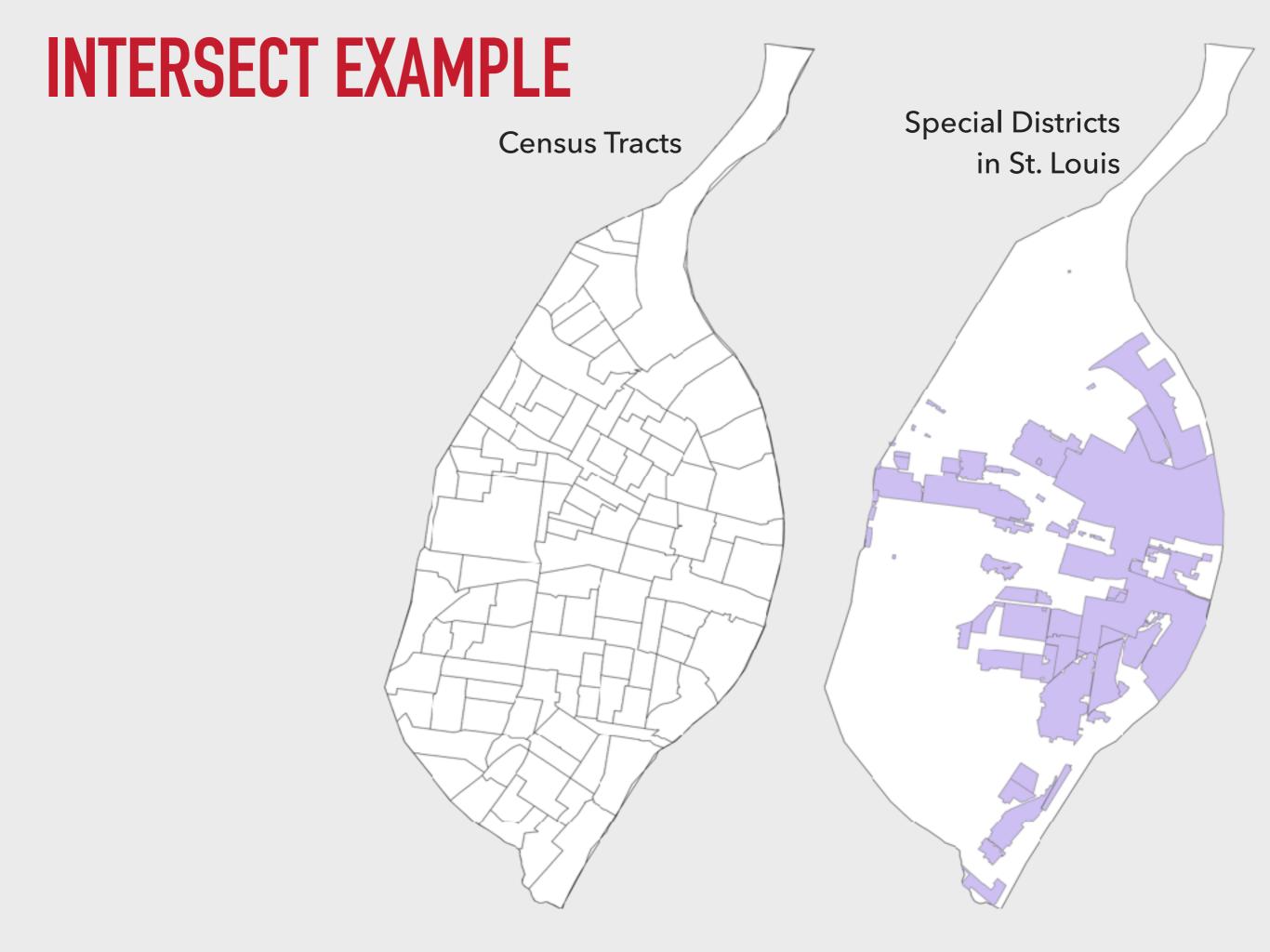


INTERSECT WITH POLYGON DATA

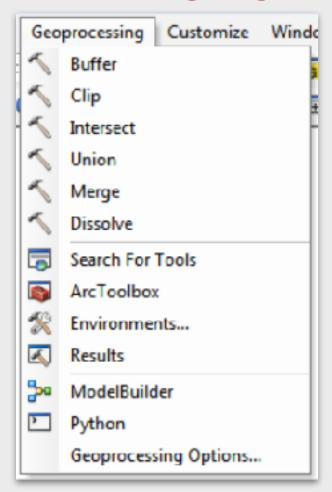
Output Features

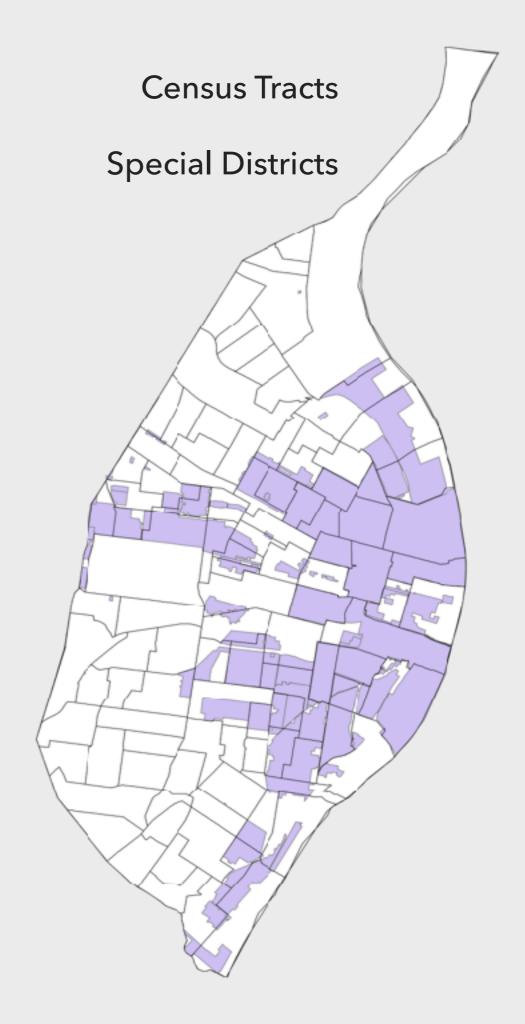
ID	Shape	Туре	Zone
104	Polygon	Α	2
105	Polygon	В	2
106	Polygon	Α	2



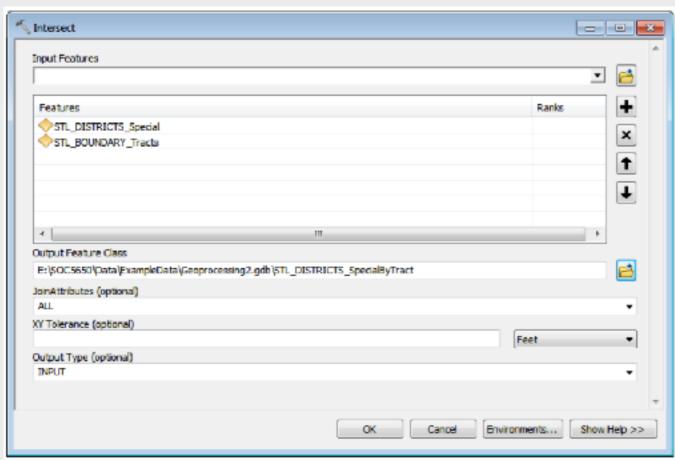


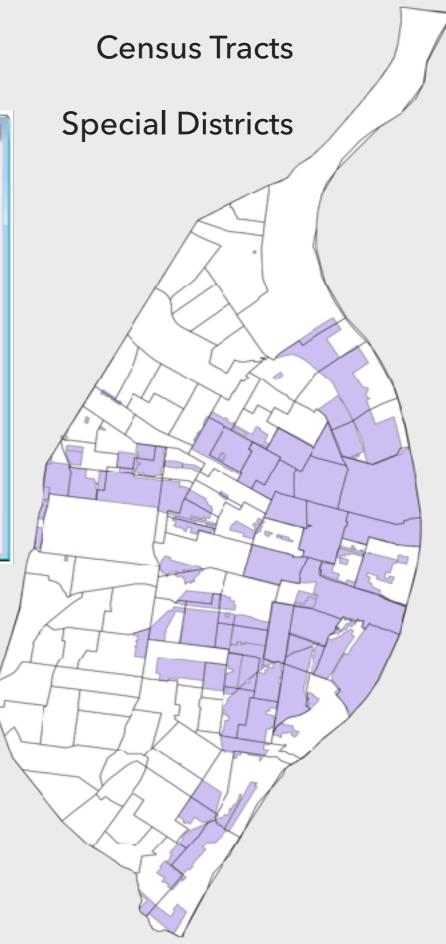
INTERSECT EXAMPLE



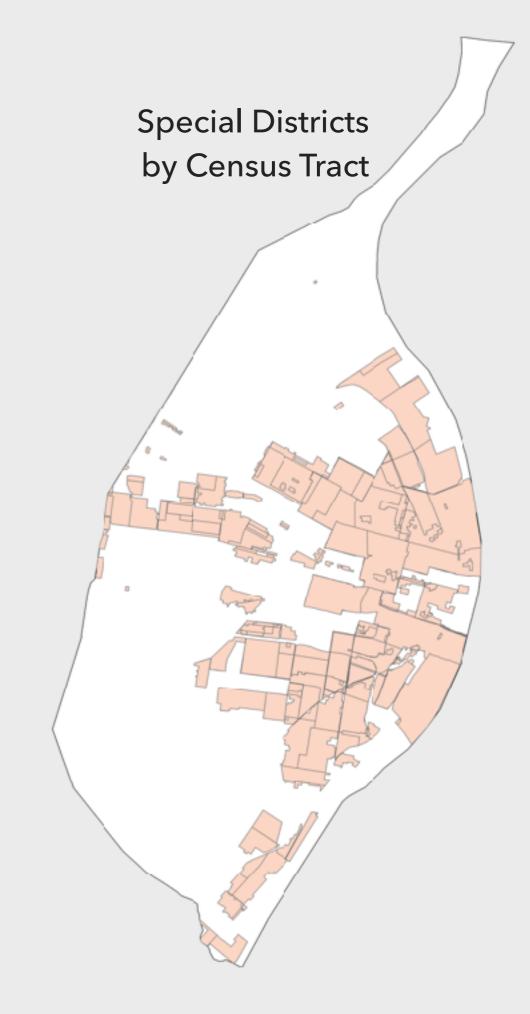


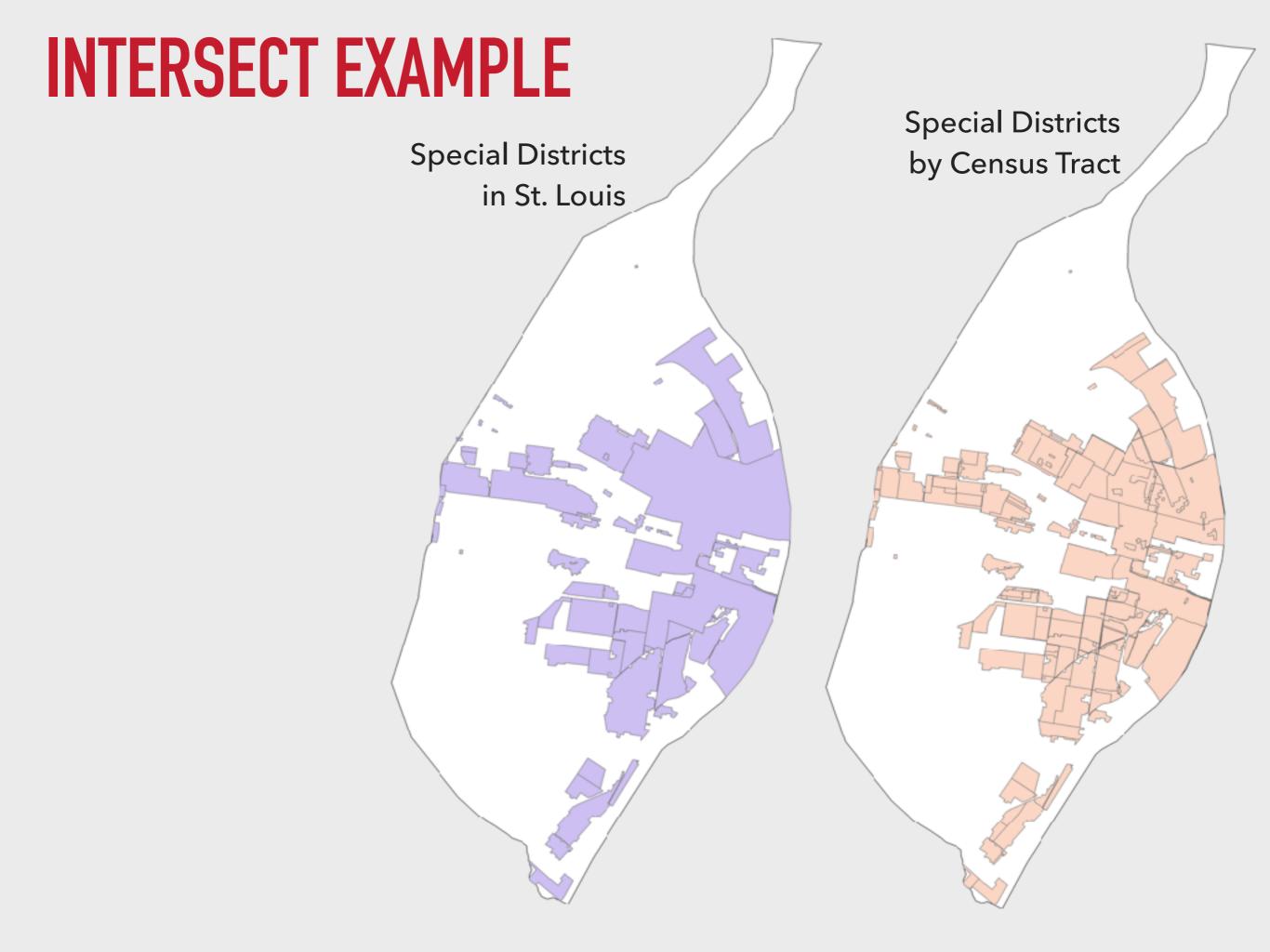
INTERSECT EXAMPLE





INTERSECT EXAMPLE





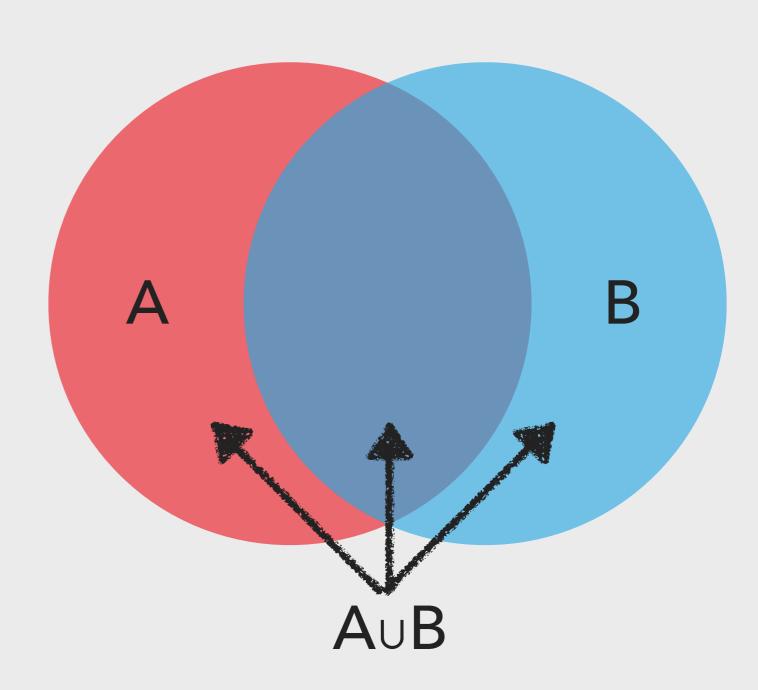
7 UNION

HOW TO COMBINE ALL DATA AND ATTRIBUTES FROM TWO POLYGON LAYERS?

UNION IN PROBABILITY THEORY

- "A union B" ...
- ... means "either A, B, or both"

In other words, the area of overlap between A and B as well as the area only covered by A and the area only covered by B



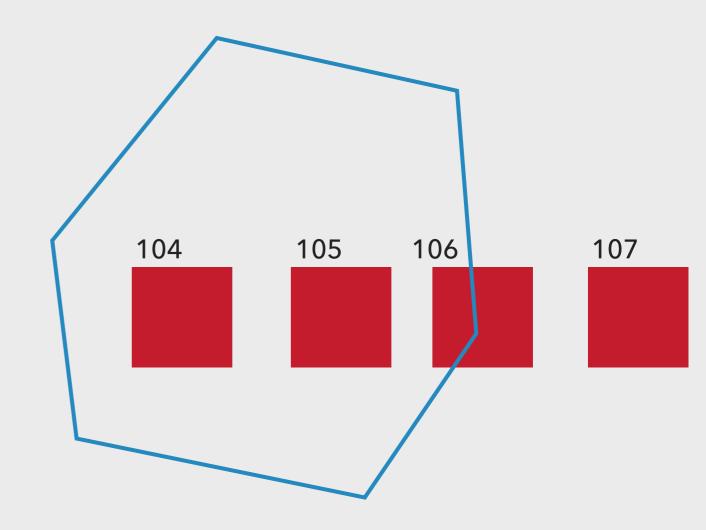
UNION

Input Features

ID	Shape	Туре
104	Polygon	А
105	Polygon	В
106	Polygon	Α
107	Polygon	В

Union Features

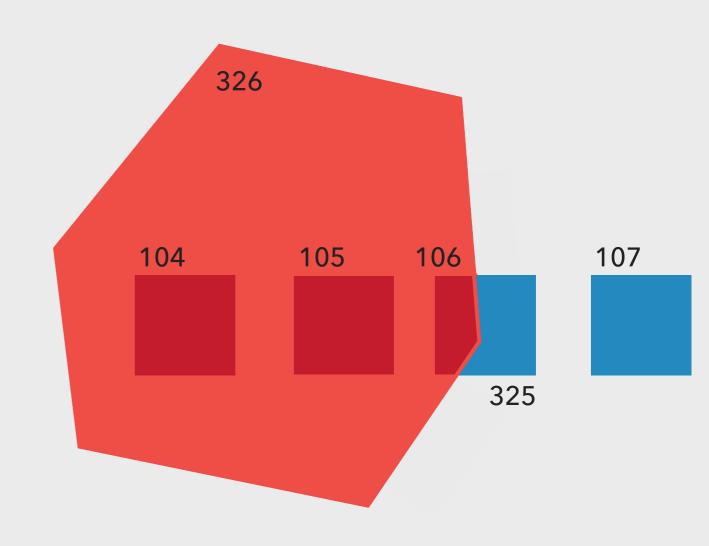
ID	Shape	Zone
23	Polygon	2



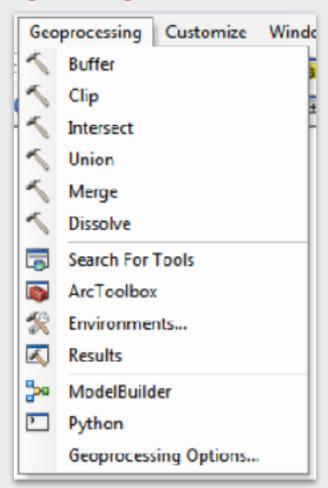
UNION

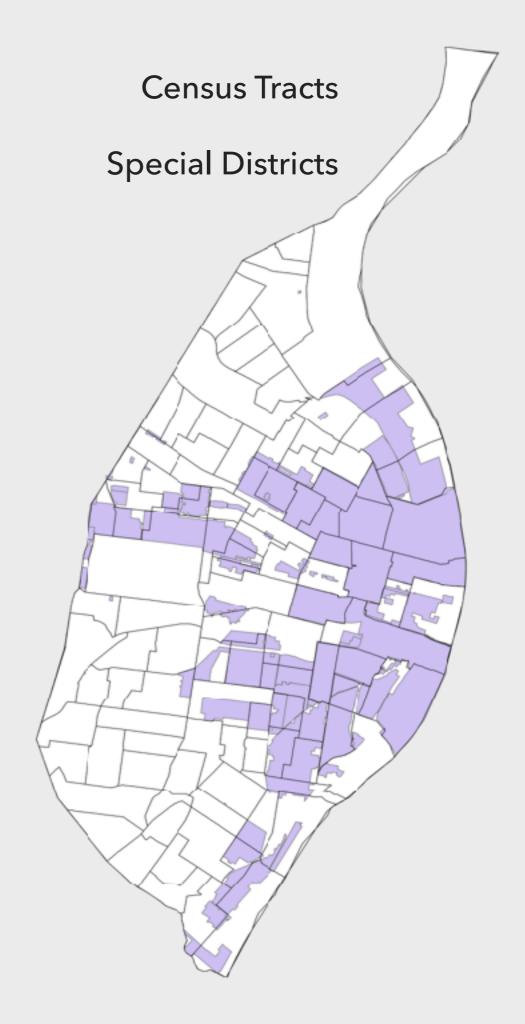
Output Features

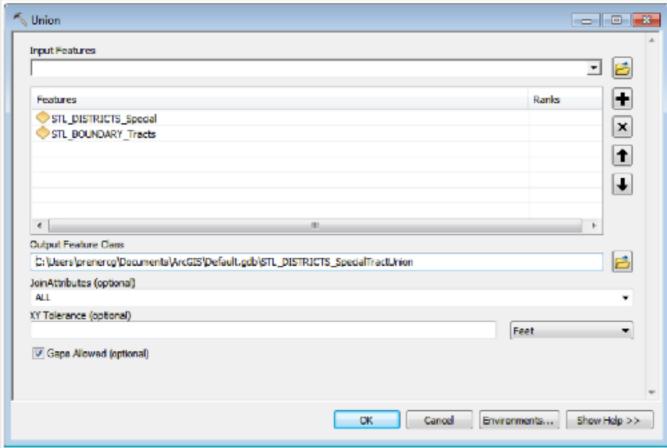
ID	Shape	Туре	FID_Zone
104	Polygon	Α	2
105	Polygon	В	2
106	Polygon	Α	2
107	Polygon	Α	-1
325	Polygon		-1
326	Polygon		2

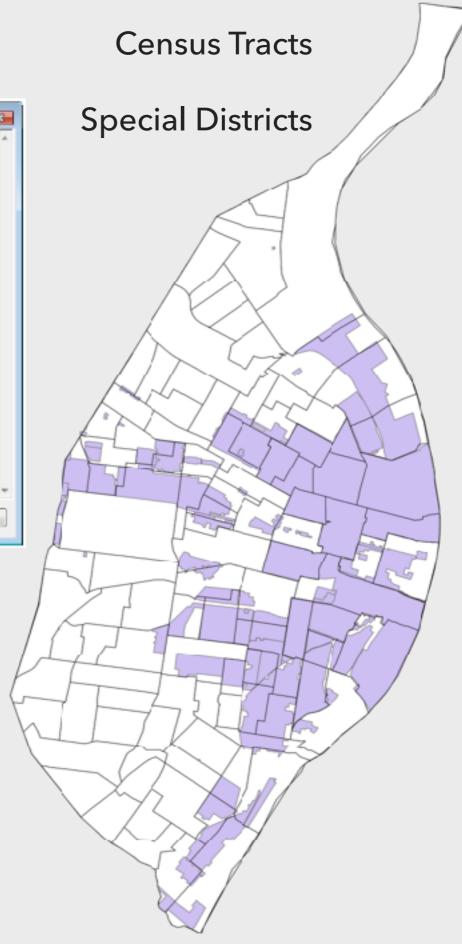


UNION EXAMPLE **Special Districts Census Tracts** in St. Louis









Union of Census Tracts & Special Districts

