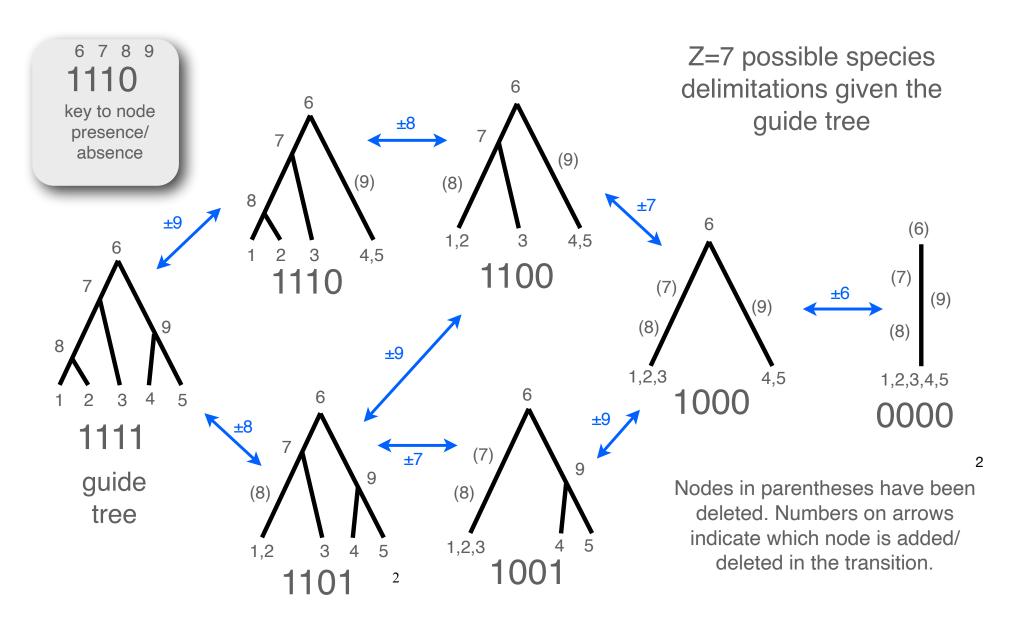
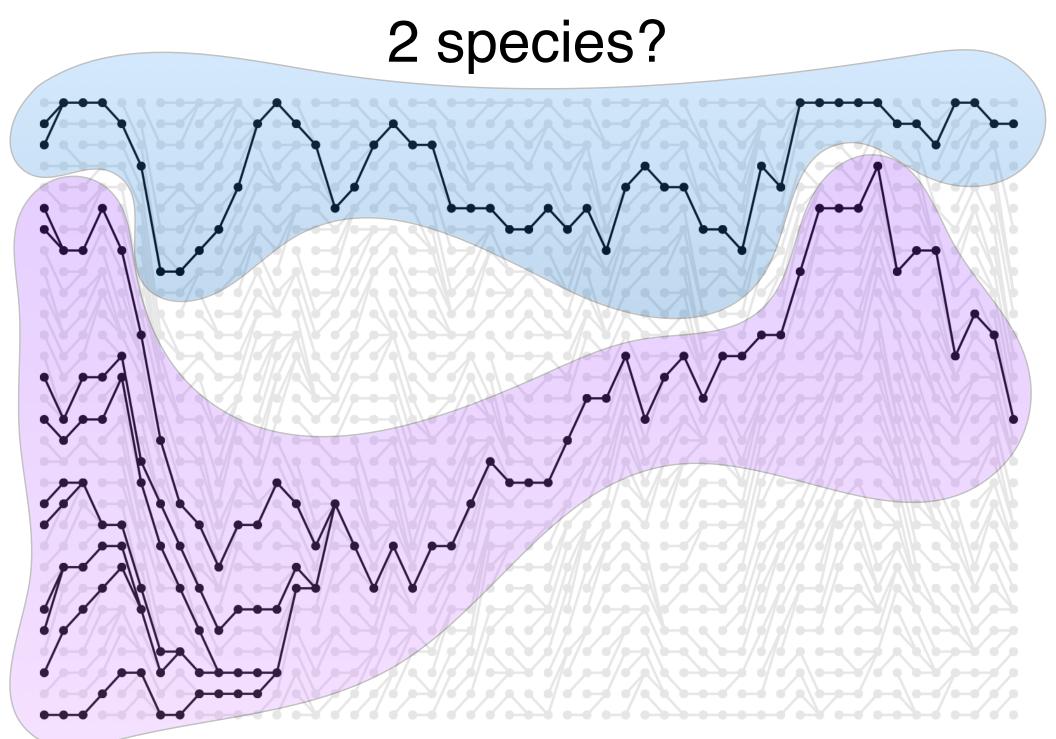
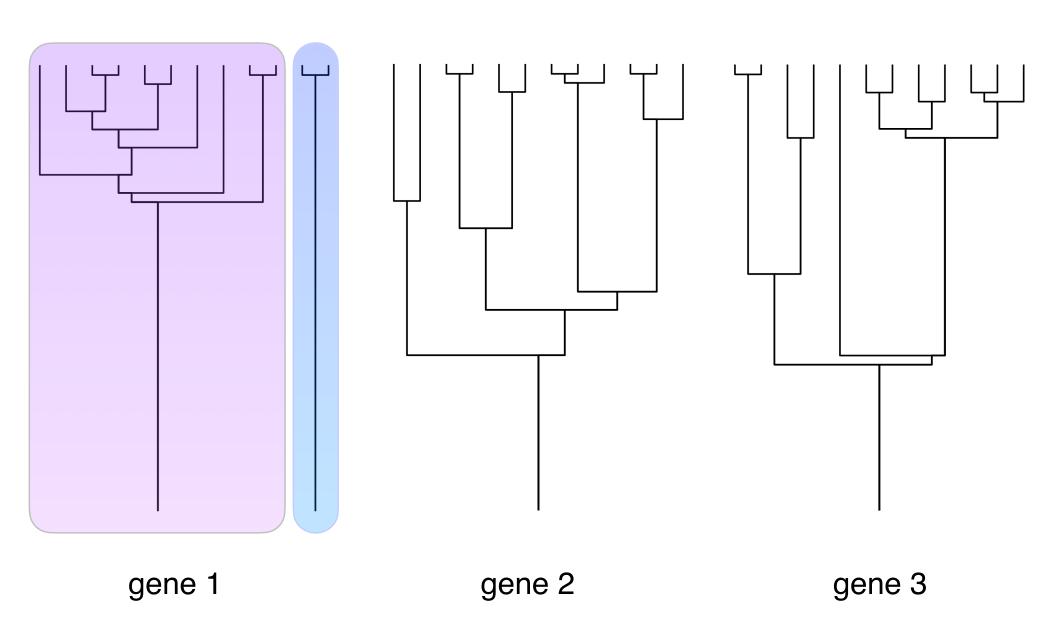
Bayesian Species Delimitation (BPP program)

Bayesian Species Delimitation (BPP program)





Maybe just one species after all



Data vs Information

What is information?

TAKE AWAY PICKLE JARS

SPECIAL SOURS 10/15
HOT SOUR CUKES 10/15
BIG DILL KOSHER CUKES 10/15
DILLY GREEN BEANS 10/15
CANDY RED BEETS 10/15
SWEET & SPICY CARROTS 10/15
SOUR GREEN TOMATOES 10/15
THYME JALAPENOS 10/15

PRESERVES TO GO

ORANGE MARMALADE 9
STRAWBERRY JAM 9
SALTED BUTTER 9
MAPLE BUTTER 9
HOUSE MADE SYRUP 9

BAG OF BISCUITS 4 BISCUITS FOR \$11

GROWLERS 320z / 640z

JACOB'S PICKLES

1 TYPE FOR 5, 4 TYPES FOR 12, 8 TYPES FOR 18

SPECIAL SOURS

HOT SOUR CUKES

BIG DILL KOSHER CUKES

DILLY GREEN BEANS

CANDY RED BEETS

SWEET & SPICY CARROTS

SOUR GREEN TOMATOES

THYME JALAPENOS

PICKLED EGGS

FRESH ORGANIC EGGS, SPICY JALAPENO BRINE 7

STARTERS

FRIED PICKLES SPICY RED MAYO 11

BISCUITS & FIXINS HOUSE STRAWBERRY & ORANGE PRESERVES, CLOVER HONEY, SALTED BUTTER AND MAPLE BUTTER 9

MATZO BALL SOUP NATURAL YOUNG CHICKEN, NOODLES, CARROTS, HARICOT VERTS, ONIONS 12

GRIT CRUSTED FRIED GREEN TOMATOES
PICNIC SALICE 9

DEVILED EGGS PICKLED MUSTARD SEED, SMOKED PAPRIKA, MICRO ARUGULA 12

POUTINE SMOTHERED IN BROWN GRAVY, CHEESE, HOLLANDAISE DRIZZLE 15

BISCUITS AND GRAVY SAUSAGE GRAVY OR MUSHROOM

HOMEMADE SLOW COOKED MEATBALLS

HOMEMADE MARINARA, MOZZARELLA 14

OKRA & CHILES SLICED PICKLED OKRA, RED PEPPER FLAKES, SCALLIONS, LIQUID SMOKE 1 1

STREET CORN SPICY AIOLI, FRESH LIME, CRUMBLED PARMESAN 9

SALADS

SATUR FARMS GREENS FROM NORTH FORK L.I.

BUTTERMILK FRIED CHICKEN CAESAR
ROMAINE PARMESAN CHEESE BISCUIT CROUTONS 18

GRILLED SALMON SALAD BABY GREENS, SLICED ORANGES, RED ONION, CILANTRO, LIGHT ORANGE VINAIGRETTE 25

BUTTERMILK FRIED CHICKEN COUNTRY WEDGE ICEBERG, BLUE CHEESE, DILLY RANCH, GRAPE TOMATOES, NI-

TRATE FREE BACON 19

SPICED SHRIMP MARKET KALE SALAD TOASTED ALMONDS, DRIED CRANBERRIES, RAISINS, CHERRIES AND

HONEY-DIJON VINAIGRETTE WITH SHRIMP 24

CONSUMER ADVISORY: CONSUMPTION OF UNDERCOOKED MEAT, POULTRY, EGGS, OR SEAFOOD MAY INCREASE THE RISK OF FOODBORNE ILLNESSES. PLEASE INFORM YOUR SERVER IF ANYONE IN YOUR PARTY HAS A FOOD ALLERGY OR ANY SPECIAL DIETARY NEEDS.

Max Split For Credit Card 6 Per Table.

No Substitutions Please.

SOUTHERN BISCUIT SANDWICHES

SERVED WITH GRAIN MILLER ORGANIC CHEESE GRITS

HONEY CHICKEN AND PICKLES BUTTERMILK FRIED CHICKEN, HOT SOURS, CLOVER HONEY 17

SOUTHERN B.L.T BUTTERMILK FRIED CHICKEN, FRIED GREEN TOMATOES, PICKLE SLAW, PICNIC SAUCE, NITRATE FREE BACON 18

SAUSAGE GRAVY SMOTHERED CHICKEN
BUTTERMILK FRIED CHICKEN 17

MUSHROOM GRAVY SMOTHERED CHICKEN
BUTTERMILK FRIED CHICKEN, AGED VERMONT CHEDDAR 17

BBQ SMOTHERED PEPPER JACK CHICKEN
BUTTERMILK FRIED CHICKEN, HOUSE MADE CREAMY BBQ,

VERMONT PEPPER JACK 17
HOT CHICKEN BISCUIT BUTTERMILK FRIED CHICKEN,

NASHVILLE HOT SAUCE, HOT SOUR PICKLES 17

CHICKEN BACON EGG & CHEESE BUTTERMILK FRIED CHICKEN, NITRATE FREE BACON, EGG, PICNIC SAUCE, 2 YEAR AGED VERMONT CHEDDAR 18

HOME COOKING

CHICKEN & PANCAKES BUTTERMILK FRIED CHICKEN, CRISPY NITRATE FREE BACON, HOMEMADE SYRUP 19

JACOB'S PATTY MELT JACOB'S BEEF BURGER BLEND, TOASTED BUTTERMILK LOAF, MELTED CHEDDAR CHEESE, CRISPY ONIONS, LETTUCE, PICKLE SAUCE, BIG DILL KOSHER CUKES, FRESH CUT FRIES 17

CATFISH TACOS GRILLED CATFISH, LIME CREMA, CILANTRO SLAW, FRESH LIME, PICKLED CARROT AND JALAPENOS 21

SHRIMP & BACON GRITS WHOLE WILD SHRIMP, NITRATE FREE BACON, ORGANIC CHEESE GRITS 24

LOW COUNTRY MEATLOAF SWEET AND SMOKEY

MEATLOAF, WHIPPED POTATOES, FRIZZLED ONIONS, COLESLAW, BUTTERMILK BISCUIT SMOTHERED IN MAPLE BUTTER 23

BABY BACK RIBS LOADED BAKED POTATO, PICKLE SLAW, BBQ SAUCE 26

TURKEY LEG WHIPPED POTATOES, HOME MADE BISCUIT STUFFING, CRANBERRY COMPOTE, TURKEY GRAVY 21

BUTTERMILK FRIED CHICKEN THIGH BASKET

PORK SHOULDER BRAISED COLLARD GREENS, MASHED POTATOES WITH TURKEY GRAVY, BUTTERMILK BISCUIT WITH SWEET BUTTER 23

GUMBO CAJUN SPICED SHRIMP, ANDOUILLE SAUSAGE, CAROLINA RICE, FRIED OKRA 28

MAC & CHEESE

CLASSIC MAC & CHEESE 14/21

BUFFALO CHICKEN MAC & CHEESE BLUE CHEESE DRIZZLE 16 / 24

CHEESEBURGER MAC & CHEESE GROUND SALISBURY SIRLOIN, AGED VERMONT CHEDDAR BLEND, KETCHUP 16 / 24

SIDES

COLLARD GREENS & BLACK EYED PEAS WITH

BRAISED PORK SHOULDER 13

HOUSE FRIES HOUSE KETCHUP, MAYO, PICKLE BRINE 12

PICKLE SLAW 8

HOUSE SALAD 10

ORGANIC CHEESE GRITS 8

MASHED POTATOES & MUSHROOM GRAVY 8

BEER

a selection of american craft brews











JAMS

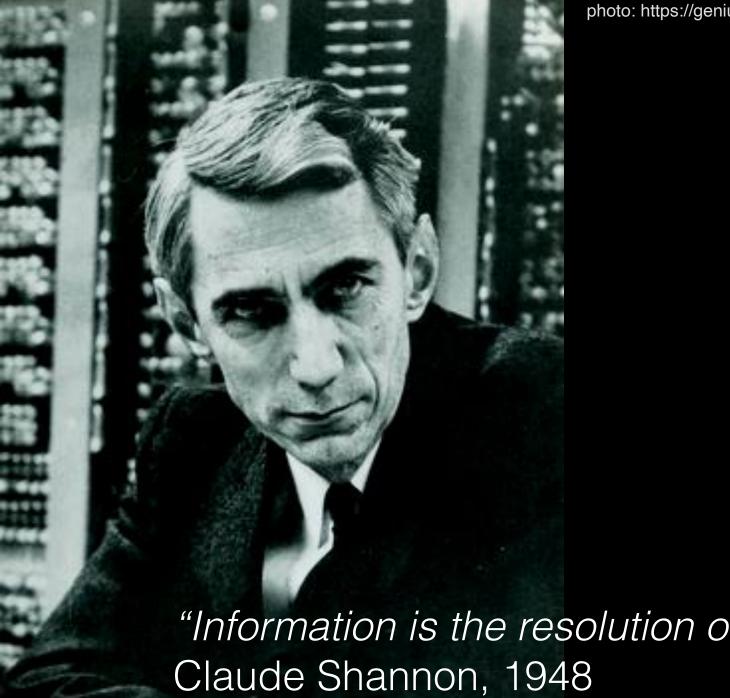
housemade from whole fruits



MEATS
sustainably and humanely raised

JACOB'S PICKLES

509 AMSTERDAM NYC



"Information is the resolution of uncertainty" —

Information=Data?

1	1	tava
- 1	-	1000

esotericum heterosepalum kellogii majus minimum montanum nuttallii paronychioides parryi polygaloides sawatchense shastense spergulariaeoides tenue

20 characters

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20 characters

Which has less information?

14 taxa

esotericum
heterosepalum
kellogii
majus
minimum
montanum
nuttallii
paronychioides
parryi
polygaloides
sawatchense
shastense
spergulariaeoides
tenue

20 sites

 20 sites

Which has less information?

14 taxa

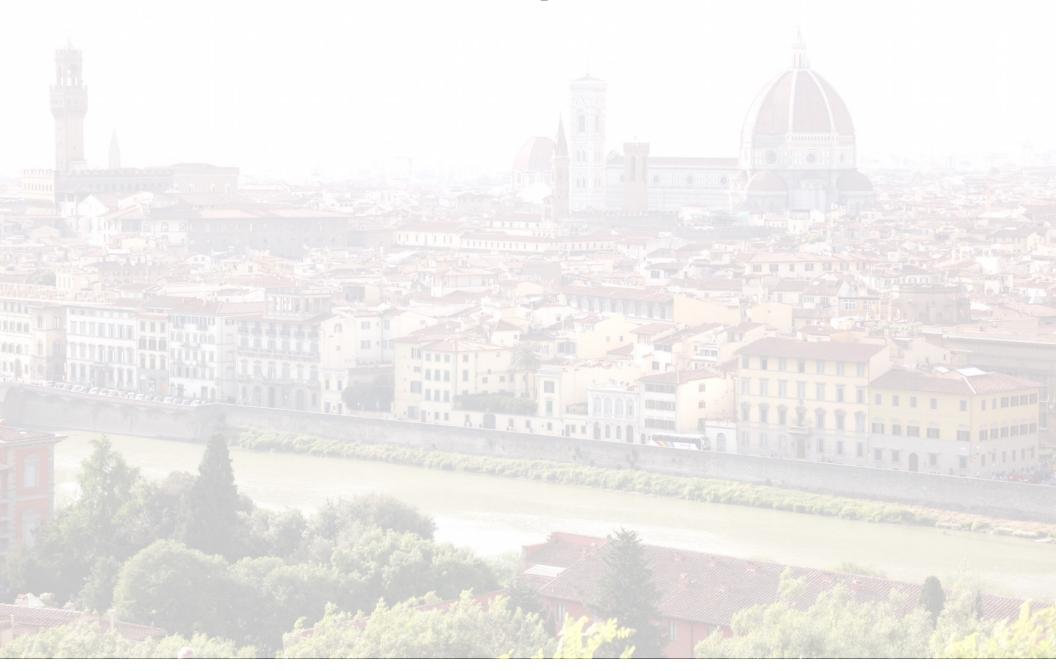
esotericum
heterosepalum
kellogii
majus
minimum
montanum
nuttallii
paronychioides
parryi
polygaloides
sawatchense
shastense
spergulariaeoides
tenue

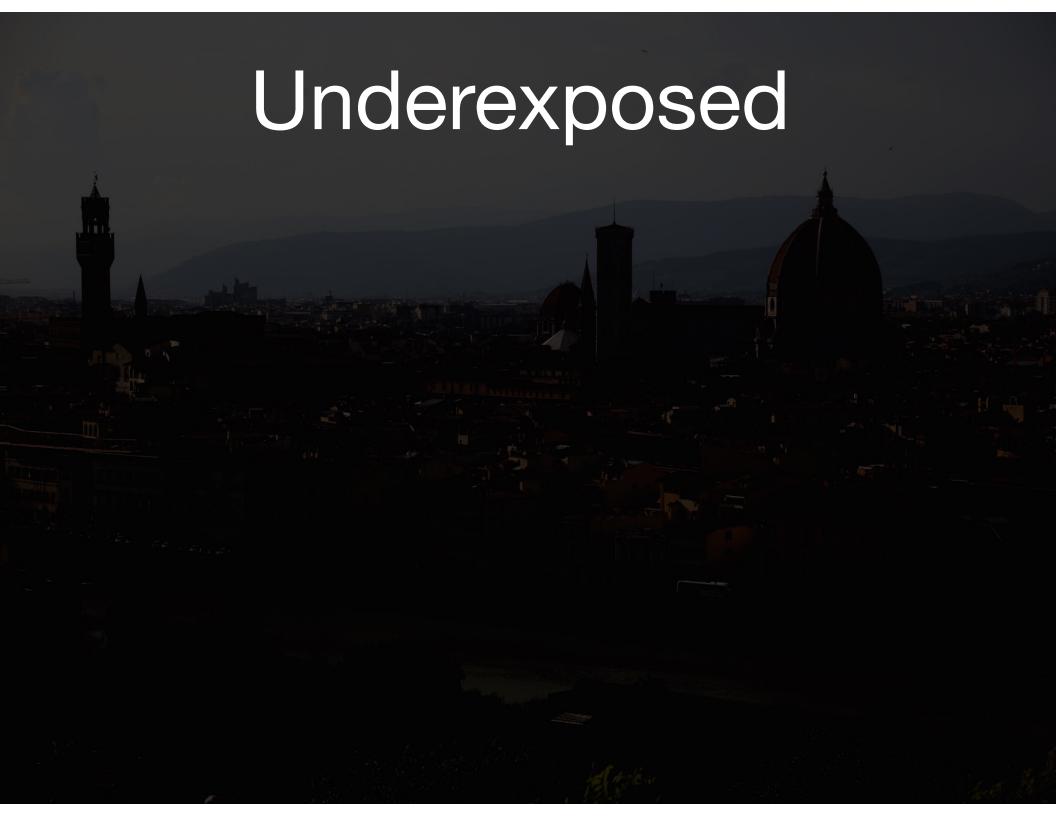
20 constant sites

20 random sites

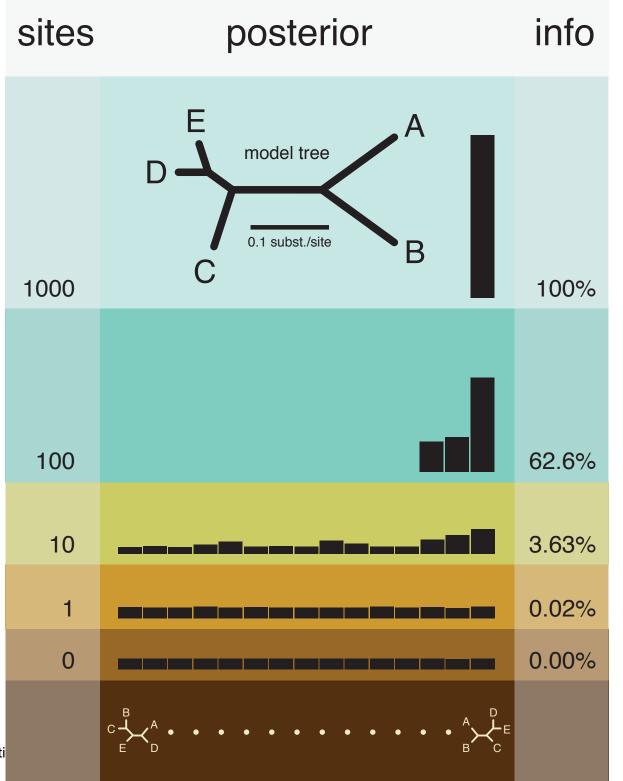
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GGCATTGAAGAGAGGCTTTG
TTCTGTGTTGACAAGTTAGT
ATTTCCGAAAATCGTGTGCA
GCATCGCATACTCCCCCTCG
ATATTGCTTGAATCAAGAGC
GTATTTTACAGGCCGGGCAA
ATGTGATTATGAGAGTTTAT
ATGGCAAGTACGAGTTTTCG
TTCCGGATCCGTTATGCCAG
CGAATGGGCCACACAATTTA
AACCGAATGTGGTATTGGCG
GACGACCCGGGGAACACGAA

Overexposed









Lewis et al. 2016

Information

Relative rate	%l	
0.01	18	
0.1	99	
1	100	
10	64	
100	1.5	

Percent missing	%l	
0	100	
50	98	
100	0	

Rate variance	%l	
1	100	
10	97	
100	13	
1000	0	

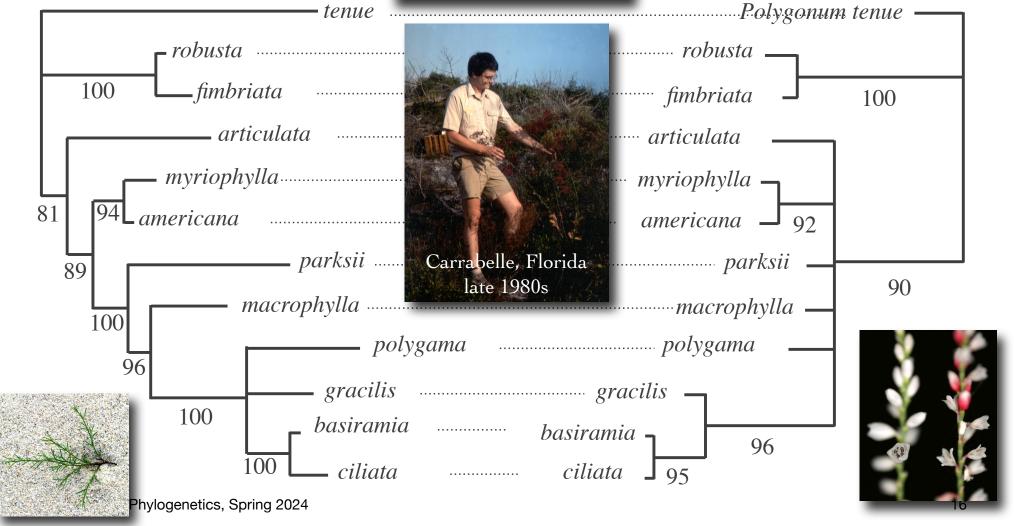
Morphology vs. molecules in Polygonella

DNA (ITS+rbcL)
1877 characters

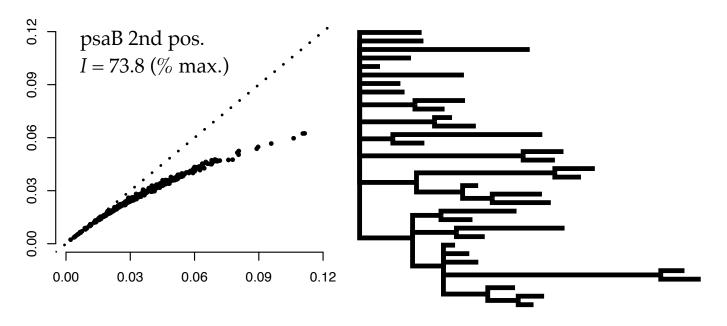
I = **90.4%** (0.048/char.)



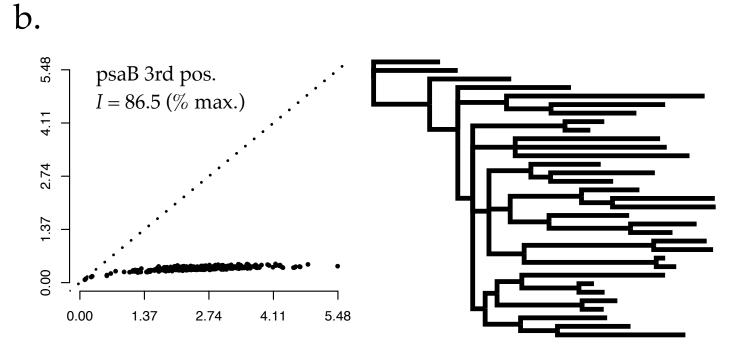
Morphology 39 characters I = **73.6%** (1.887/char.)



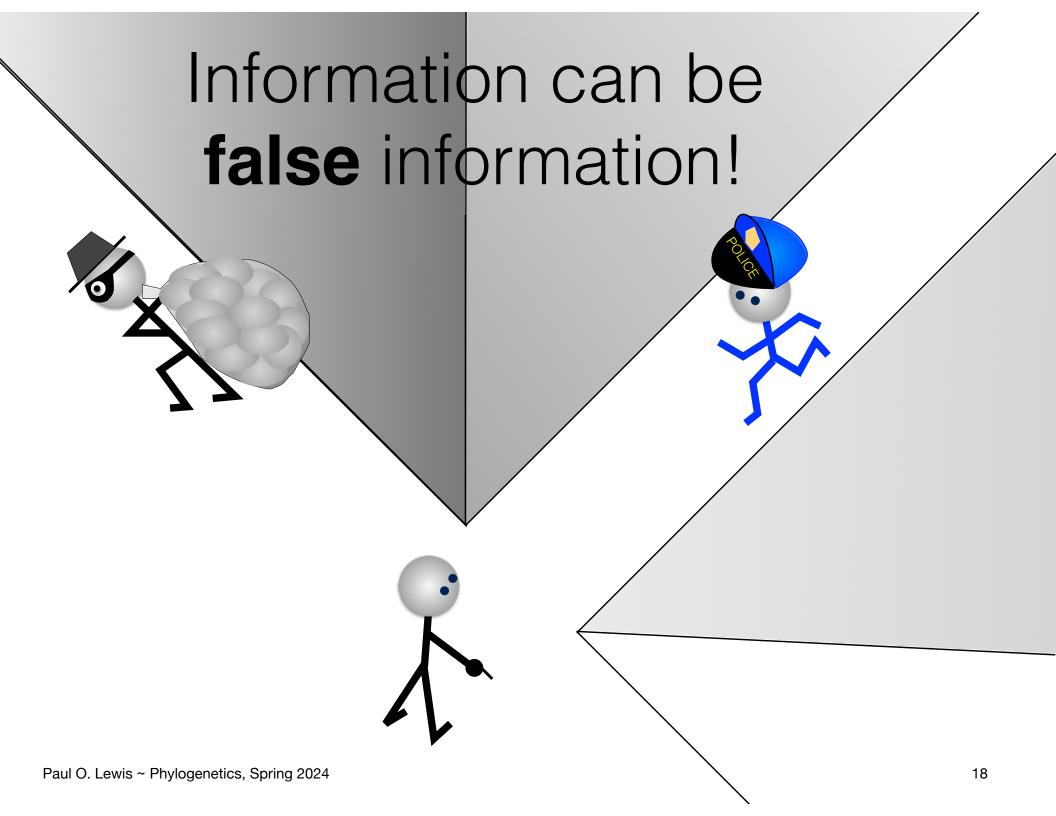
a.

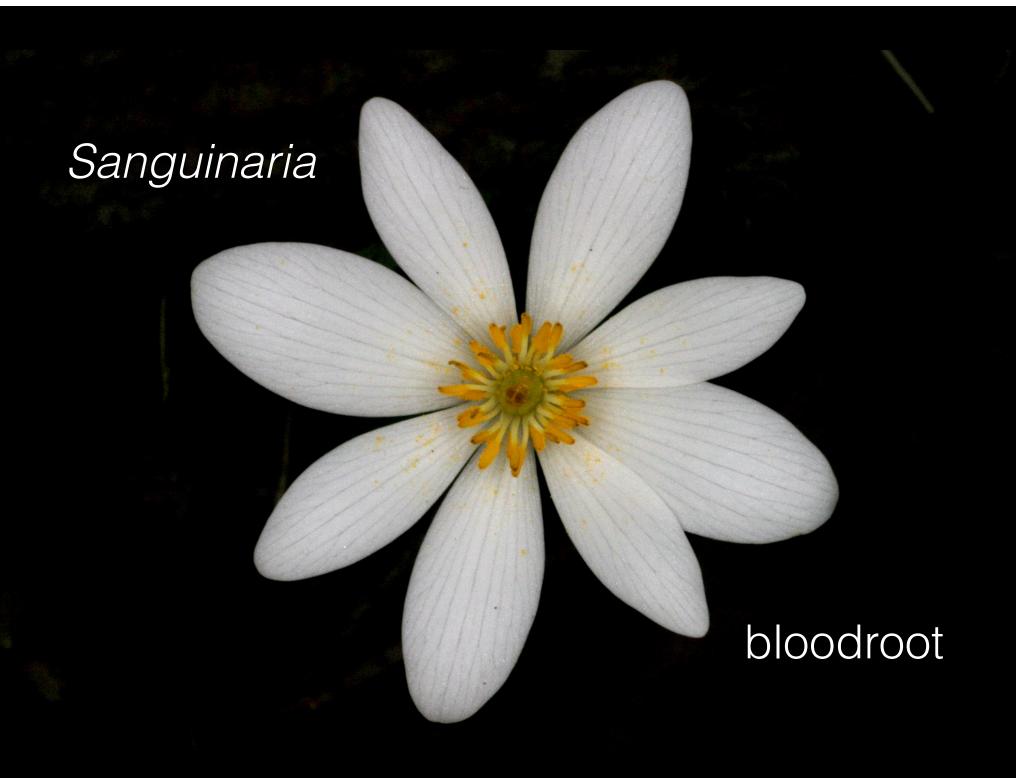


3rd
positions
have *more*information
than 2nd
positions

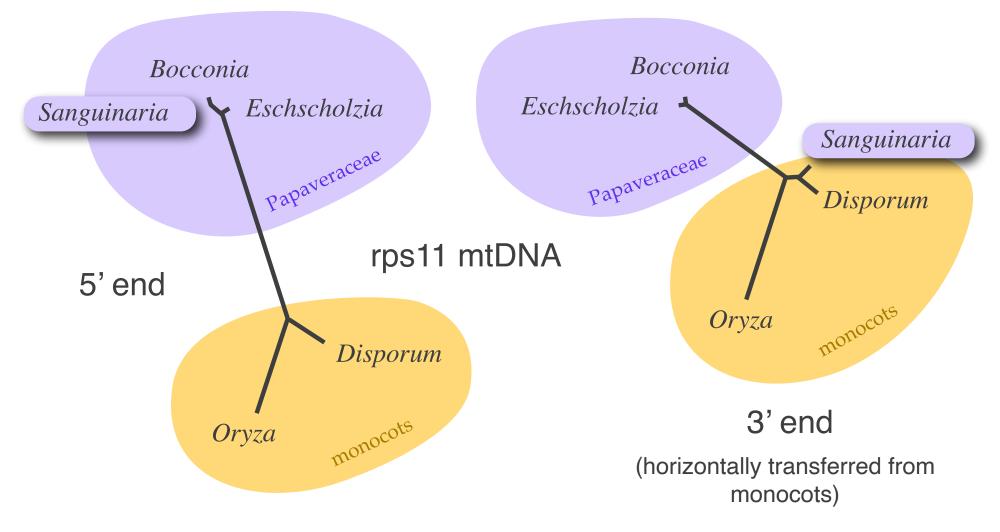


Paul O. Lewis ~ Phylogenetics, Spring 2024



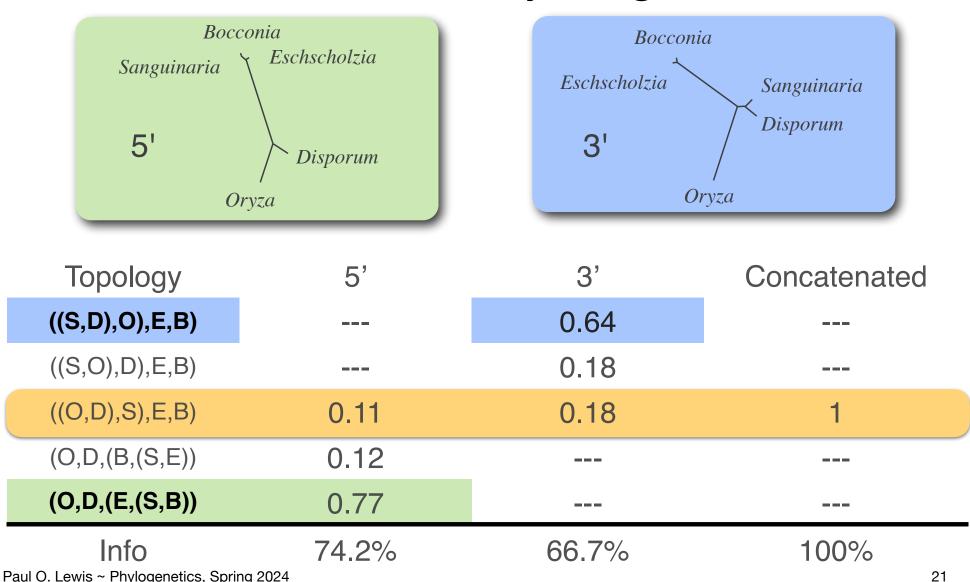


Horizontal transfer results in conflicting information about the placement of bloodroot (*Sanguinaria*)

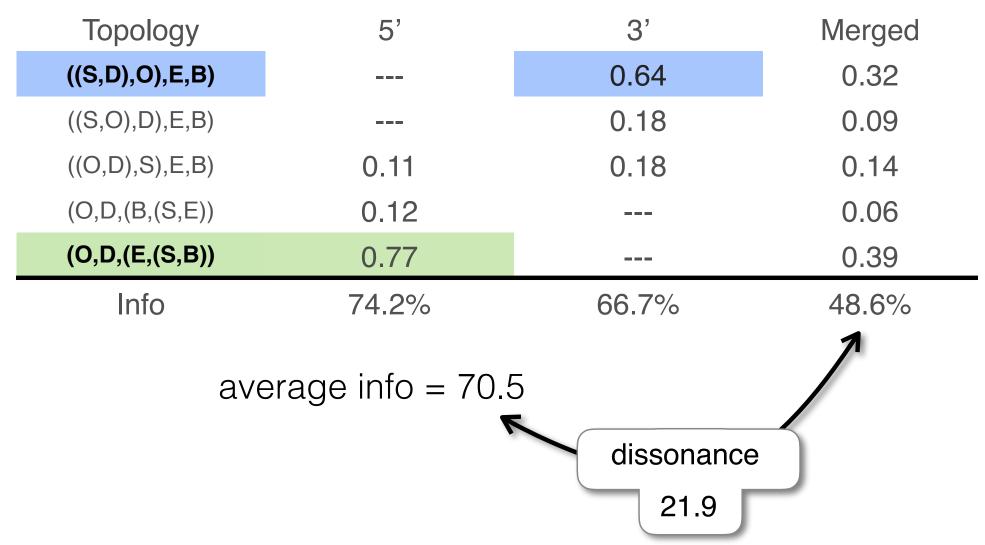


Bergthorsson et al. 2003

Each data set strongly rejects the other's favorite tree, so a mediocre tree wins everything



Dissonance is the difference between merged info and average info



What if instead of conflicting...

Topology	5'	3'	Merged				
((S,D),O),E,B)							
((S,O),D),E,B)							
((O,D),S),E,B)	0.11	0.18	0.145				
(O,D,(B,(S,E))	0.12	0.18	0.150				
(O,D,(E,(S,B))	0.77	0.64	0.705				
Info	74.2%	66.7%	70.1%				
average info = 70.7							
dissonance							
0.06							

Information can be partitioned by clade

