

Phenetics supplement

How to make a phenetic tree in real life

- ▶ 1. Join the two open nodes that are closest to each other

How to make a phenetic tree in real life

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance

How to make a phenetic tree in real life

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ 2. They are no longer active. Make a new node halfway between them

How to make a phenetic tree in real life

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ 2. They are no longer active. Make a new node halfway between them
 - ▶ Average the traits

How to make a phenetic tree in real life

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ 2. They are no longer active. Make a new node halfway between them
 - ▶ Average the traits
 - ▶ This step is conceptually simple and practically tricky

How to make a phenetic tree in real life

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ 2. They are no longer active. Make a new node halfway between them
 - ▶ Average the traits
 - ▶ This step is conceptually simple and practically tricky
 - ▶ *This is why we have computers*

How to make a phenetic tree in real life

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ 2. They are no longer active. Make a new node halfway between them
 - ▶ Average the traits
 - ▶ This step is conceptually simple and practically tricky
 - ▶ *This is why we have computers*
- ▶ 3. Go back to step 1

How to make a phenetic tree in real life

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ 2. They are no longer active. Make a new node halfway between them
 - ▶ Average the traits
 - ▶ This step is conceptually simple and practically tricky
 - ▶ *This is why we have computers*
- ▶ 3. Go back to step 1

How to make a phenetic tree in this course

- ▶ 1. Join the two open nodes that are closest to each other

How to make a phenetic tree in this course

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance

How to make a phenetic tree in this course

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance



How to make a phenetic tree in this course

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ * 2. *Stop!* You're done.

How to make a phenetic tree in this course

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ * 2. *Stop! You're done.*
- ▶ *

How to make a phenetic tree in this course

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ * 2. *Stop!* You're done.
- ▶ * *Seriously.*

How to make a phenetic tree in this course

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ * 2. *Stop!* You're done.
- ▶ * Seriously.
- ▶ *I'm here to teach you concepts, not to teach you how to be a really bad computer.*

How to make a phenetic tree in this course

- ▶ 1. Join the two open nodes that are closest to each other
 - ▶ Shortest distance
- ▶ * 2. *Stop!* You're done.
- ▶ * Seriously.
- ▶ *I'm here to teach you concepts, not to teach you how to be a really bad computer.*