

## Raxtax: complement problem

prerequisite: reference sequences are in same direction

intersection sizes

↓  
pufs complexity  
for  $\binom{n}{k}$   
missing

$O(\text{sum}(\text{match-counts}))$

$$\ll 600 \cdot 10^6$$

$\text{match\_count}_i \ll 600$

$$t = 8$$

$$|D| \approx 10^6$$

↓  
C

$O(t) \cdot |D|$

$$\approx 8 \cdot 10^6$$

↓  
P

$O(t) \cdot |D|$

$$\approx 8 \cdot 10^6$$

### 1. observation:

- correct strand: higher maximum in match counts
  - ↳ confident is correct
  - ↳ dx calculate intersection sizes

### 2. observation:

- correct strand: higher sum(match counts)
  - ↳ likely correct, further testing needed
  - ↳ adds complexity of  $O(|Q|) \approx 600$