fastx-utils之去除重复序列: uniques

一、fastx-utils uniques介绍

功能描述:

fastx-utils uniques 根据序列去除重复。

命令行接口:

可选参数:

```
      1 -1
      序列标签,默认为 'Uniq';

      2 -m
      输出标准错误;
```

二、使用场景实例及其用法

使用场景经典案例:

1.16S扩增子数据分析: 对合并后的PE数据进行去除重复序列,并进行计数;

示例演示:

示例文件: A1.fastq

```
1 $ zcat A1.fastq.gz | head -n 8
```

- 1 @HISEQ:483:HLJ2LBCXY:1:1101:7924:2136
- TGGGGAATATTGGACAATGGGCGCAAGCCTGATCCAGCCATGCCGCTGAGTGATGAAGGCCCTAGGGTTGTAAAGC
 CCTTTCGGCGGGGAAGATAATGACGGTACCCGCAGAAGAAGCCCCGGCTAACTTCGTGCCAGCAGCCGCGGTAATAC
 GAAGGGGGCTAGCGTTGCTCGGAATTACTGGGCGTAAAGCGCACGTAGGCGGCTTTCTAAGTCGGGGGTGAACTCCT
 GGAGCTTAACTCCAGAACTGCCTTCGATACTGGAGAGCTCGAGTCCGGGAGAGGTGAACTGCGAGTGTAGAG
 GTGAAACTCGTAGATATTCGCAAGAACACCAGTGGCGAAGGCGGCTCACTGGCCCGGTACTGACGCTGAGGTGCGAA
 AGCGTGGGGAGCAAACAGG
- 3 +
- 4 <DEG/CEHHIHEHCHECFHICHHHHHDHIICHHIEHCHCEGHHIICH?EEHFHHHIECEE?HE?
 1GHHHHDHHHHHFFGHHHCHHHII?H?HHEHCHF1CGHC0DEHEHHD<<FEHHHIGHIC??
 HHCGHHHHIHH@FFEEHIHDHHCHHIHIE@GH-G??EDEGEHIHIICHHC?EHHKKKGK=KKKKKKKKKKKKKKKKKKKKKKKKHE@@G@CEC6+>=>8.-C@B8-HHIHHACHCBFA.GA?
 HHEHHFHHHCIHE@CGBAFGIHIHHHCEHHCC,HEHIHHGDFHFHEGCHEEHIH@HFGHGIIHHHHHECEHGIIHEH
 HCEC/C/DGIHHGCC@HGD00C01GCHCCDE?C1D1GCC?DH=HFHHG@CEDEGIHIHFE=EHEHHHHCHHIHHHG?
 EHEG@<1
- 5 @HISEQ:483:HLJ2LBCXY:1:2108:14400:12517
- TGGGGAATATTGGACAATGGGCGCAAGCCTGATCCAGCCATGCCGCTGGGTGATGAAGGCCCTAGGGTTGTAAAGC
 CGTTTCGGCGGGGAAGATAATGACGGTACCCGCAGAAGAAGCCCCGGGCTAACTTCGTGCCAGCAGCCGCGGTAATAC
 GAAGGGGGCTAGCGTTGCTCGGAATTACGGGGCGTAAAGCGCACGTAGGCGACTCTTTAAGTCGGGGGTGAAATCCT
 GGAGCTCAAACCCAGAACTGCCTTCGATACTGGGGAGCTCGAGTTCGGGAGAGGTGAGTGGAACTGCGAGTGTAGCG
 GTGAAATTCGTAGATATTCGCAAGAACACCAGTGGCGAAGGCGGCTCACTGGCCCGATACTGACGCTGAGGTGCGAA
 AGCGTGGGCAGCAAACAGG
- 7 4

运行命令: 去除 A1. fastq 文件中的重复序列, 使用 -1 Uniq 重新命令.

- 1 | \$ fastx-utils uniques -1 Uniq A1.fastq.gz | head -n 6
- 2 >Uniq_1
- TGGGGAATATTGGACAATGGGCGCAAGCCTGATCCAGCCATGCCGCTGAGTGATGAAGGCCCTAGGGTTGTAAAGC
 CCTTTCGGCGGGGAAGATAATGACGGTACCCGCAGAAGAAGCCCCGGGCTAACTTCGTGCCAGCAGCCGCGGTAATAC
 GAAGGGGGCTAGCGTTGCTCGGAATTACTGGGCGTAAAGCGCACGTAGGCGGCTTTCTAAGTCGGGGGTGAACTCCT
 GGAGCTTAACTCCAGAACTGCCTTCGATACTGGAGAGCTCGAGTCCGGGAGAGGTGAGTGGAACTGCGAGTGTAGAG
 GTGAAACTCGTAGATATTCGCAAGAACACCAGTGGCGAAGGCGGCTCACTGGCCCGGTACTGACGCTGAGGTGCGAA
 AGCGTGGGGAGCAAACAGG
- 4 >Uniq_2
- TGGGGAATATTGGACAATGGGCGCAAGCCTGATCCAGCCATGCCGCTGGGTGATGAAGGCCCTAGGGTTGTAAAGC
 CGTTTCGGCGGGGAAGATAATGACGGTACCCGCAGAAGAAGCCCCGGGCTAACTTCGTGCCAGCAGCCGCGGTAATAC
 GAAGGGGGCTAGCGTTGCTCGGAATTACGGGGCGTAAAGCGCACGTAGGCGACTCTTTAAGTCGGGGGTGAAATCCT
 GGAGCTCAAACCCAGAACTGCCTTCGATACTGGGGAGCTCGAGTTCGGGAGAGGTGAACTGCGAGTGTAGCG
 GTGAAATTCGTAGATATTCGCAAGAACACCAGTGGCGAAGGCGGCTCACTGGCCCGATACTGACGCTGAGGTGCGAA
 AGCGTGGGCAGCAAACAGG
- 6 >Uniq_3
- 7 TGGGGAATATTGGACAATGGGCGAAAGCCTGATCCAGCCATGCCGCGTGGATGAAGGAGGCCCTAGGGTTGTAAAGT CCTTTCGATGGTGAAGATAATGACGGTAACCATACAAGAAGCCCCGGGTAATTTCGTGCCAGCAGCCGCGGTAATAC GAAAGGGGCTAGCGTTGTTCGGAATTACTGGGCGTAAAGCGCACGTAGGCGGCCGTGTAAGTTGGGGGGTGAGATCCC GGGGCTCAACCCCGGAACTGCCTCCAAAACTACATAGCTAGAGGATGTGAGAGACAGTGGAATTCCGAGTGTAGAG GTGAAATTCGTAGATATTCGGAAGAACACCGGTGGCGAAGGCGAAGGCGACTGTCTGGCACATTTCTGACGCTGAGGTGCAAA AGCGTGGGGAGCAAACAGG

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