# atlas-utils之标注序列文件的注释信息: label

# 一、atlas-utils label介绍

# 功能描述:

atlas-utils label 标注序列文件的注释信息。

#### 命令行接口:

## 可选参数:

```
-p 字符串 填充指定字符到标题,默认为'';
-r 过滤掉没有标签的序列;
```

# 二、使用场景实例及其用法

# 使用场景经典案例:

# 示例演示

## 示例文件:

```
$ cat classify.txt|head -n 6
```

```
ZOTU_19
d:Bacteria,p:"Bacteroidetes",c:Sphingobacteria,o:"Sphingobacteriales",f:Chitino
phagaceae,g:Parafilimonas,s:Parafilimonas_terrae
ZOTU_5 d:Bacteria,p:"Bacteroidetes"
ZOTU_9
d:Bacteria,p:"Bacteroidetes",c:Flavobacteriia,o:"Flavobacteriales",f:Flavobacter
iaceae,g:Flavobacterium
ZOTU_12
d:Bacteria,p:"Bacteroidetes",c:"Bacteroidia",o:"Bacteroidales",f:"Porphyromonada
ceae",g:Petrimonas,s:Petrimonas_sulfuriphila
ZOTU_7
d:Bacteria,p:"Bacteroidetes",c:"Bacteroidia",o:"Bacteroidales",f:"Porphyromonada
ceae"
ZOTU_18
d:Bacteria,p:"Bacteroidetes",c:"Bacteroidia",o:"Bacteroidales",f:"Porphyromonada
ceae",g:Macellibacteroides,s:Macellibacteroides_fermentans
```

#### >ZOTU\_1

TGGGGAATATTGCACAATGGACGAAAGTCTGATGCAGCAACGCCGCGTGGAGGATGACACATTTCGGTGCGTAAACTCCT
TTTATATAGGAAGATAATGACGGTACTATATGAATAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGAGGG
TGCAAGCGTTACTCGGAATCACTGGGCGTAAAGAGCGTGTAGGCGGGTATATAAGTCAGAAGTGAAATCCAATAGCTTAA
CTATTGAACTGCTTTTGAAACTGTATACCTAGAATGTGGGAGAGGTAGATTTCTGGTGTAGGGGTAAAATCCGTA
GAGATCAGAAGGAATACCGATTGCGAAGGCGATCTACTGGAACATTATTGACGCTGAGACGCGAAAGCGTGGGAGCAAA
CAGG

#### >ZOTU\_2

#### >ZOTU\_3

TGGGGAATATTGGACAATGGGCGCAAGCCTGATCCAGCAATGCCGCGTGTGTGAAGAAGGTTTTCGGATCGTAAAGCACT
TTCGGCGGGGACGATGATGACGGTACCCGCAGAAGAAGCCCCGGCTAACTTCGTGCCAGCAGCCGCGGTAATACGAAGGG
GGCTAGCGTTGCTCGGAATTACTGGGCGTAAAGGGCGCGTAGGCGGCTTGGCCAGTCAGGCGTGAAATTCCTGGGCTCAA
CCTGGGGACTGCGCTTGATACTGCTGAGCTTGAGGCCGAGAGAGGGTGGTGGAATTCCCAGTGTAGAGGTGAAATTCGTA
GATATTGGGAAGAACACCGGTGGCGAAGGCGACCACCTGGCTCGGTACTGACGCTGAGGCGCGACAGCGTGGGAGCAAA
CAGG

#### 运行命令:

\$ atlas-utils label ./label/example/classify.txt ./label/example/zotus.fasta |
head -n 4

#### >ZOTU 1

d:Bacteria,p:"Proteobacteria",c:Epsilonproteobacteria,o:Campylobacterales,f:Campylobacteraceae,q:Arcobacter

TGGGGAATATTGCACAATGGACGAAAGTCTGATGCAGCAACGCCGCGTGGAGGATGACACACTTTCGGTGCGTAAACTCCT
TTTATATAGGAAGATAATGACGGTACTATATGAATAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGAGGG
TGCAAGCGTTACTCGGAATCACTGGGCGTAAAGAGCGTGTAGGCGGGTATATAAGTCAGAAGTGAAATCCAATAGCTTAA
CTATTGAACTGCTTTTGAAACTGTATACCTAGAATGTGGGAGAGGTAGATTTCTGGTGTAGGGGTAAAATCCGTA
GAGATCAGAAGGAATACCGATTGCGAAGGCGATCTACTGGAACATTATTGACGCTGAGACGCGAAAGCGTGGGGAGCAAA
CAGG

### >ZOTU\_2

d:Bacteria,p:"Proteobacteria",c:Gammaproteobacteria,o:Oceanospirillales,f:Halomo nadaceae,g:Halomonas

TGGGGAATATTGGACAATGGGGGGAACCCTGATCCAGCCATGCCGCGTGTGTGAAGAAGGCCCTCGGGTTGTAAAGCACT
TTCAGTGAGGAAGAACGCCTGGTGGTTAATACCCATCAGGAAAGAAGCACCAGCAGCAGCAGCAGCAGCCGCGTAACTCCGTG
CCAGCAGCCGCGGTAATACGGAGGGTGCGAGCGTTAATCGGAATTACTGGGCGTAAAGCGCGCGTAGGTGGCTTGATAAG
CCGGTTGTGAAAGCCCCGGGCTCAACCTGGGAACGGCATCCGGAACTGTCAAGCTAGAGTGCAGGAGAGGAAGGTAGAAT
TCCCGGTGTAGCGGTGAAATGCGTAGAGATCGGGAGGAACACAGTGGCGAAGGCGGCCTTCTGGACTGACACT
GAGGTGCGAAAGCGTGGGTAGCAAACAGG

参数选项1: 使用参数-p,填充NNNNNNNN 到标题

\$ atlas-utils label -p 'NNNNNNNNN' ./label/example/classify.txt

./label/example/zotus.fasta |head -n 5

>ZOTU\_1NNNNNNNd:Bacteria,p:"Proteobacteria",c:Epsilonproteobacteria,o:Campylobacterales,f:Campylobacteraceae,g:Arcobacter

TGGGGAATATTGCACAATGGACGAAAGTCTGATGCAGCAACGCCGCGTGGAGGATGACACATTTCGGTGCGTAAACTCCT
TTTATATAGGAAGATAATGACGGTACTATATGAATAAGCACCGGCTAACTCCGTGCCAGCAGCCGCGGTAATACGGAGGG
TGCAAGCGTTACTCGGAATCACTGGGCGTAAAGAGCGTGTAGGCGGGTATATAAGTCAGAAGTGAAATCCAATAGCTTAA
CTATTGAACTGCTTTTGAAACTGTATACCTAGAATGTGGGAGAGGTAGATTTCTGGTGTAGGGGTAAAATCCGTA
GAGATCAGAAGGAATACCGATTGCGAAGGCGATCTACTGGAACATTATTGACGCTGAGACGCGAAAGCGTGGGAGCAAA
CAGG

>ZOTU\_2NNNNNNNd:Bacteria,p:"Proteobacteria",c:Gammaproteobacteria,o:Oceanospirillales,f:Halomonadaceae,g:Halomonas

>ZOTU\_3NNNNNNNd:Bacteria,p:"Proteobacteria",c:Alphaproteobacteria,o:Rhodospirillales,f:Acetobacteraceae,g:Roseomonas

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