

# atlas-utils之生成 krona 兼容的文件格式：krona

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## 一、atlas-utils krona介绍

功能描述：

`atlas-utils krona` 给定 (Z)OTU 表以及样本标识符，生成 `krona` 兼容的文件格式。

命令行接口：

```
1 $ atlas-utils krona
2
3 Usage: atlas-utils krona <otutab:annotated> <sample>
```

## 二、使用场景实例及其用法

示例演示：

文件： `zotu_table_freqs_ann.txt`

```
1 $ cat zotu_table_freqs_ann.txt | head
```

1	#OTU	ID	A-1	A-2	B-1	B-2	C-1	C-2	taxonomy
2	ZOTU_1	0	0	0.004627	0.01551	0.09528	0.1079		d:Bacteria,p:"Proteobacteria",c:Epsilonproteobacteria,o:Campylobacterales,f:Campylobacteraceae,g:Arcobacter
3	ZOTU_2	0.008106	0.01835	0.06743	0.08831	0.002709	0.002064		d:Bacteria,p:"Proteobacteria",c:Gammaproteobacteria,o:Oceanospirillales,f:Halomonadaceae,g:Halomonas
4	ZOTU_3	0	0	0.008615	0.00887	0.05814	0.06045		d:Bacteria,p:"Proteobacteria",c:Alphaproteobacteria,o:Rhodospirillales,f:Acetobacteraceae,g:Roseomonas
5	ZOTU_4	0	0	0.005265	0.002789	0.06512	0.06497		d:Bacteria,p:"Bacteroidetes",c:"Bacteroidia",o:"Bacteroidales",f:"Porphyromonadaceae"
6	ZOTU_5	0	0	5.318e-05	0.0004463	0.06335	0.0641		d:Bacteria,p:"Bacteroidetes"
7	ZOTU_6	3.635e-05	8.211e-05	0.0004786	0.0008926	0.06017	0.05797		d:Bacteria,p:"Proteobacteria",c:Alphaproteobacteria,o:Rhizobiales,f:Rhizobiaceae
8	ZOTU_7	0	0	0.003882	0.002287	0.05439	0.05633		d:Bacteria,p:"Bacteroidetes",c:"Bacteroidia",o:"Bacteroidales",f:"Porphyromonadaceae"
9	ZOTU_8	0	0	0.07195	0.06867	0.0001042	2.991e-05		d:Bacteria,p:"Proteobacteria",c:Gammaproteobacteria,o:Alteromonadales,f:Alteromonadaceae,g:Alishewanella
10	ZOTU_9	0	0	0.06233	0.05701	5.209e-05	5.983e-05		d:Bacteria,p:"Bacteroidetes",c:Flavobacteriia,o:"Flavobacteriales",f:Flavobacteriaceae,g:Flavobacterium

运行命令：

给定**(Z)OTU** 表以及样本标识符，生成 **Krona** 兼容的文件格式。

```
1 | $ atlas-utils krona zotu_table_freqs_ann.txt A-1 | head
```

1	0.001309	d: Bacteria	p: Proteobacteria	
		c: Deltaproteobacteria	o: Myxococcales	f: Labilitrichaceae
		g: Labilithrix		
2	0.00370755	d: Bacteria	p: Proteobacteria	
		c: Alphaproteobacteria	o: Rhizobiales	f: Rhizobiaceae
		Rhizobiaceae_unclassified		
3	0.002036	d: Bacteria	p: Actinobacteria	c: Actinobacteria
		o: Actinomycetales	f: Promicromonosporaceae	g: Promicromonospora
4	0.011996	d: Bacteria	p: Actinobacteria	c: Actinobacteria
		o: Actinomycetales	f: Streptosporangiaceae	
5	0.0147543	d: Bacteria	p: Proteobacteria	
		c: Alphaproteobacteria	o: Rhizobiales	f: Bradyrhizobiaceae
		Bradyrhizobiaceae_unclassified		
6	3.635e-05	d: Bacteria	p: Actinobacteria	c: Actinobacteria
		o: Actinomycetales	f: Demequinaceae	
7	0.001272	d: Bacteria	p: Proteobacteria	
		c: Gammaproteobacteria	o: Xanthomonadales	f: Sinobacteraceae
		Sinobacteraceae_unclassified		
8	0.0004362	d: Bacteria	p: Bacteroidetes	c: Sphingobacteriia
		o: Sphingobacteriales	f: Chitinophagaceae	g: Chitinophaga
		s: Chitinophaga_taiwanensis		
9	0.0249409	d: Bacteria	p: Bacteroidetes	c: Sphingobacteriia
		o: Sphingobacteriales	f: Chitinophagaceae	g: Arachidicoccus
		s: Arachidicoccus_rhizosphaerae		
10	0.003199	d: Bacteria	p: Actinobacteria	c: Actinobacteria
		o: Actinomycetales	f: Mycobacteriaceae	g: Mycobacterium
		s: Mycobacterium_phlei		

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Last Update: 2020-09-09 11:56 AM