

Pinecone Cheatsheet

Connection and Setup

```
pc.init  
Initialize Pinecone client with API key and  
environment  
  
from pinecone import Pinecone  
Import Pinecone in Python  
  
pc = Pinecone(api_key='YOUR_API_KEY')  
Create a Pinecone client instance
```

Index Management

```
pc.create_index(name='index-name',  
dimension=1536, metric='cosine')  
Create a new vector index  
  
pc.list_indexes()  
List all indexes  
  
pc.describe_index(name='index-name')  
Get details about an index  
  
pc.delete_index(name='index-name')  
Delete an index
```

Vector Operations

```
index = pc.Index('index-name')  
Connect to a specific index  
  
index.upsert(vectors=[{'id': 'vec1', 'values': [0.1, 0.2,  
..., 'metadata': {...}}])  
Insert or update vectors  
  
index.query(vector=[0.1, 0.2, ...], top_k=10,  
include_metadata=True)  
Query for similar vectors  
  
index.fetch(ids=['vec1', 'vec2'])  
Retrieve specific vectors by ID  
  
index.delete(ids=['vec1', 'vec2'])  
Delete vectors by ID  
  
index.delete(filter={'metadata_field': 'value'})  
Delete vectors using metadata filter
```

Namespace Operations

```
index.describe_index_stats()  
Get statistics about the index  
  
index.upsert(vectors=[...], namespace='custom-  
namespace')  
Upsert vectors to a specific namespace  
  
index.query(vector=[...], namespace='custom-  
namespace')  
Query vectors in a specific namespace  
  
index.delete(delete_all=True, namespace='custom-  
namespace')  
Delete all vectors in a namespace
```

Metadata Filtering

```
index.query(vector=[...], filter={'category':  
'electronics'})  
Query with metadata filter  
  
index.delete(filter={'category': 'electronics'})  
Delete vectors matching a metadata filter
```