

Get a Single Vertex with All Properties Listed

```
%%gremlin
g.V("98 1b6 46a -92 3f- 436 e-b b39 -59 bde e56 -
8da 3").valueMap(true).unfold()
```

Get Vertices by a Label

```
%%gremlin
g.V()
.hasLabel("Customer")
.valueMap(true)
```

Get Other Vertices by Outer Edge

```
//Get Invoices for a Customer
%%gremlin
g.V("37 128 5d7 -3d 78- 4e0 1-8 386 -87 aac 4a5 -
b9d a")
.outE("HAS_INVOICE")
.project("id", "invoiceDate", "invoiceTotal")
.by(outerV().id())
.by(outerV().values("invoiceDate"))
.by(outerV().values("invoiceTotal"))
.toList()
```

Get Vertices by Properties

```
//Get all customers with a Beverly Hills shipping
zip code that live in an apartment
%%gremlin
g.V()
.hasLabel("Customer")
.has("ShippingZip", 90210)
.has("ShippingAddress", contains("APT"))
.valueMap(true)
```

Count for a Label

```
%%gremlin
g.V()
.hasLabel("Customer")
.count()
```

Add Vertex and Get The ID

```
%%gremlin
g.addV("Customer")
.property("FirstName", "Luke")
.property("LastName", "Starbuck")
.project("id")
.by(T.id)
```

Update Vertex

```
%%gremlin
g.V("3f 3d7 d90 -8a 50- 44e 0-b 6a3 -91 00f fc1 -
c7d 5")
.property(Cardinality.single, "FirstName", "Ham")
.property(Cardinality.single, "LastName", "Salad")
```

Delete Vertex

```
%%gremlin
g.V("f1 fd1 846 -5b c6- 439 5-a f86 -77 227 c50 -
019 9").drop()
```

Get All Property Names for All Vertices

```
%%gremlin
g.V()
.properties()
.groupCount()
.by(key())
.unfold()
```

Get All Labels

```
%%gremlin
g.V()
.groupCount()
.by(label())
.unfold()
```



By Greg Finzer (GregFinzer)
cheatography.com/gregfinzer/
www.kellermansoftware.com

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