**Empty Hash creation**

**hash={}**

**puts hash[:foo]**

**Alternate way for Empty Hash creation**

**hash=Hash.new(0)**

**puts hash[:foo]**

**x = 0**

**y = 100**

**h = {x:, y:}**

**puts h**

**Clearing the Hash**

**hash={:foo=>"hai"}**

**puts hash**

**puts hash.clear**

**New entries are added at the end**

**hash = {foo: 0, bar: 1}**

**puts hash**

**hash[:box]="pencil"**

**puts hash**

**Updating a value does not affect the order:**

**hash = {foo: 0, bar: 1}**

**puts hash**

**hash[:bar]="pencil"**

**puts hash**

**Deleting**

**hash = {foo: 4, bar: 1}**

**puts hash.delete(:foo)**

**puts hash**

**Inverting key value pairs**

**hash = {foo: 4, bar: 1}**

**puts hash.invert**

**hash = {foo: 4, bar: 1}**

**puts hash.keys**

**compact → new\_hash**

**h = {foo: 0, bar: nil, baz: 2, bat: nil}**

**h1 = h.compact**

**h1 # => {:foo=>0, :baz=>2}**

**Merge**

**h = {foo: 0, bar: 1, baz: 2}**

**h1 = {bat: 3, bar: 4}**

**h2 = {bam: 5, bat:6}**

**h.merge(h1, h2) # => {:foo=>0, :bar=>4, :baz=>2, :bat=>6, :bam=>5}**