

```
Classe Album

class Album {
   String titulo

   Date lancamento

   static hasMany = [musicas:Musica]

   static belongsTo = [artista:Artista]
}
```

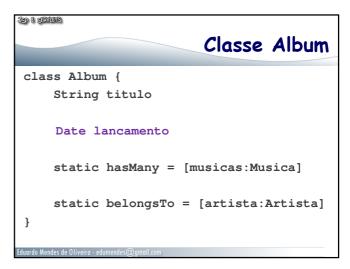
```
list()

def allAlbums = Album.list()
Recupera todos os albuns

def top10 = Album.list(
max:10, sort:'lancamentos', order:'desc')
Retorna os 10 albuns mais recentes

def totalAlbums = Album.count()
Recupera o total de albuns
```

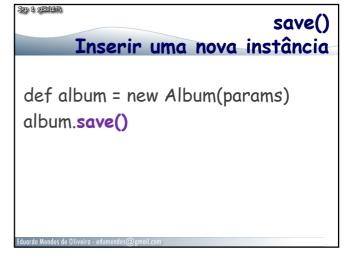




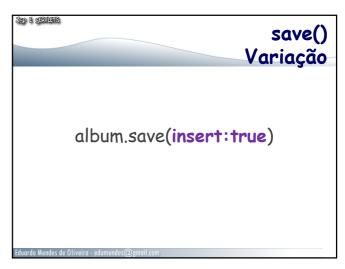
```
listOrderBy*()

def tudoPorLancamento =
Album.listOrderByLancamento()

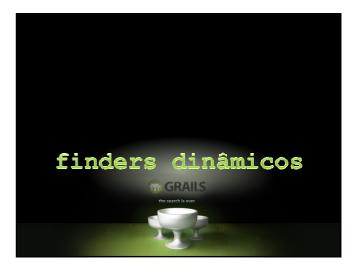
def tudoPorTitulo =
Album.listOrderByTitulo()
```





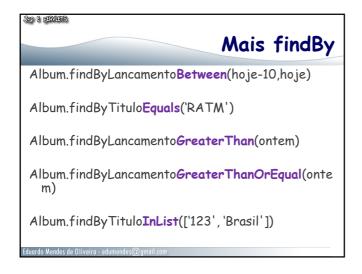


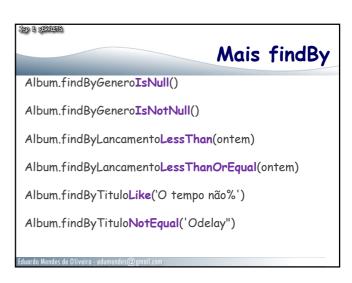


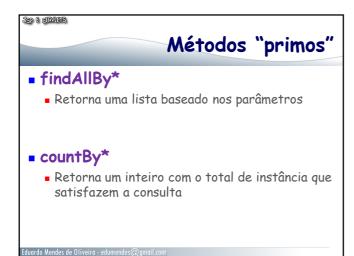


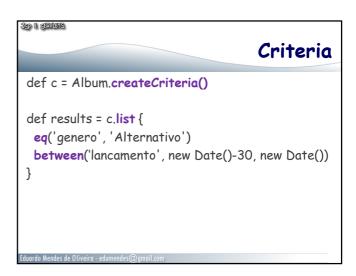


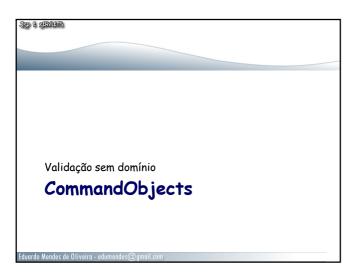


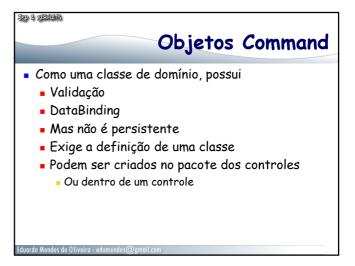












```
Um login command

class LoginCommand {
  String login
  String senha

static constraints = {
   username(blank:false, minSize:6)
   password(blank:false, minSize:6)
  }
}

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```

```
Utilizando o Command

class UsuarioController {
  def login = {
    LoginCommand cmd ->
    if(cmd.hasErrors()) {
      redirect(action:'loginForm')
    } else {
      // faz outra coisa}
  }
}
```

```
Um formulario para o Album

<g:form url="[controller: 'album', action: 'save'] ">
    Titulo: <input type="text" name="titulo" /> <br>
    Artista: <input type="text" name="artista" /> <br>
    Musica 1: <input type="text" name="musicas[0]" /> <br>
    Musica 2: <input type="text" name="musicas[1]" /> <br>
    ...
</g:form>
```

```
AlbumCreateCommand

class AlbumCreateCommand {
   String artista
   String titulo
   List musicas = []
   List duracoes = []
   static constraints = {
      artista blank:false
      titulo blank:false
      musicas minSize:1, validator:{ val, obj ->
       if (val. size() != obj.duracoes.size())
        return "musicas.duracoes.not.equal.size"
   }
}

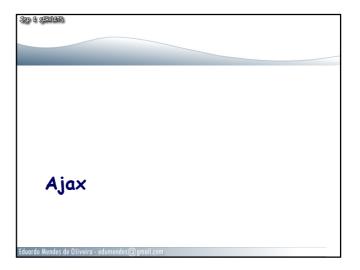
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```

```
AlbumCreateCommand

AlbumCreateCommand

Album createAlbum() {
    def artista = Artist.findByNome(artista) ?: new
    Artist(name:artista)
    def album = new Album(titulo:titulo)
    musicas.eachWithIndex { tituloMusica, i ->
        album.addToMusicas(titulo:titulo,
    duracao:duracoes[i])
    }
    return album
    }
}

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```



```
Ajax no Grails

No modo básico
Grails dispõe um conjunto de tags que simplificam a criação de componentes Ajax
Links
Formulários
Caixas de texto
```

```
Que horas são?

class LojaController {
  def index = { }

  def exibirHora = {
    render "A hora é ${new Date()}"
  }
}
```

```
grails-app/views/loja/index.gsp

<head>
<title>Benvindo ao jcTunes</title>
<meta name="layout" content="main" />
<g:javascript library="prototype" />
</head>
```

```
grails-app/views/loja/index.gsp

<g:remoteLink
   action="exibirHora" update="hora">
   Que horas são?
   </g:remoteLink>

   <div id="hora">
    </div>

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```





```
grails-app/views/loja/index.gsp

<head>
<title>Benvindo ao jcTunes</title>
<meta name="layout" content="main" />
<g:javascript library="yui" />
</head>

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```

