



INSTITUTO DE PERMACULTURA E ECOVILAS DA MATA ATLÂNTICA



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Água e esgoto

Elemento essencial para a nossa sobrevivência e para todos seres vivos, a água potável esta se tornando cada vez mais cara e escassa. Algumas previsões dizem que irá faltar água potável em um futuro bem próximo. A forma mais comum de captação de água é, em geral, proveniente de rios , que estão a cada dia mais poluídos, necessitando cada vez mais tratamentos para seu consumo. A reciclagem de água, dentro de poucos anos será uma prática que vai ganhar muitos adeptos, a água, este produto que tanto necessitamos consumir, se tornará um produto muito caro.

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Captação de Água de Chuva

Hp #y<u#rv#s#d,v#v#/#h#v#d## #x#p #d#s#u#w#f#d#f#r#u#l#t#x#h#l#d#d#w# #h#p #j#u#d#g#g#v#f#g#d#g#v#f#g#g#h#d#v#f#d#v#f#h#p #d#e#d#v#h#f#p #q#w#s#~#e#d#f#r#i#h#p #d#g#x#p #d#v#h#j#l#h#v#h#d#d#x#v#u#<#d#i/#e#d#e#d#v#h#f#p #h#q#w#s#x#e#d#f#r#h#h#v#h#w#r#u#q#r#x#e#h#p #f#d#u#r/#g#h#y#g#r#d#h#v#f#d#v#h#}#h#y#<u#d#v#h#v#h#g#q#f#d#v# #r#s#w#d#p #s#h#d#f#d#s#w#d#f#r#g#u#r#h#q#l#n#q#h#g#d#v#f#k#x#y#d#v#l#f#

D#k#j#x#d#g#h#f#k#x#y#d#g#f#l#r#h#p #v#d#l#p #q#h#u#l#v/#s#r#u#l#v#r#g#h#y#h#p #v#f#e#r#o#f#d#u#d#o#j#x#p #d#v#h#g#u#d#v#h#r#d#q#h#u#l#r#u#g#d#v#f#e#d#l#d#v#k#j#x#d#v#h#p #u#h#v#y#d#w#u#r#v#h#p #t#x#h#h#u#f#d#s#d#f#g#d#g#h#s#d#u#d#i#p #d#h#q#d#p #h#q#w#h#y#d#g#g#r#h#h#p #f#r#q#w#=#g#g#l#h#s#o#y#r#p #w#l#f#r#v#p #h#q#v#d#h# #q#h#f#h#v#l#g#d#g#h#g#h#f#r#q#v#x#p #r#g#j#k#u#r#i#f#
H{#l#v#h#p #d#g#x#p #d#v#h#f#q#l#f#d#v#h#p #s#h#v#s#d#u#h#h#h#u#f#d#x#h#h#l#d#t#x#h#y#h#p #h#q#w#r#f#r#p #d#v#s#u#p #h#l#d#v#k#j#x#d#v#h#p #R #h#h#d#d#g#r# #h#h#q#r#v#r# #f#d#s#w#g#r#u#g#h#k#j#x#d#/#t#x#d#g#w# #p #d#l#r#u#p #d#l#v#f#k#x#y#d#s#r#g#h#o#v#h#f#d#s#w#d#u#h#p #h#h#d#d#g#r#h#h#3#3#p #h#w#r#v#t#x#d#g#u#d#r#v#h#p #x#p #o#j#d#u#t#x#h#f#k#r#y#h#4#3#3#p #p #g#h#f#k#x#y#d#s#r#u#d#q#r/#s#r#g#h#u#p #r#v#f#d#s#w#d#u#4#3#3#1#3#3#3#d#u#r#v#h#h#k#j#x#d#s#r#u#d#q#r#>#h#h#d#h#h#f#r#q#r#p #d#t#x#h# #y#r#f#h#v#d#u#k#h#d#h#q#g#r#h#h#d#y#h#v#h#t#x#h#s#d#j#d#u#s#r#u#h#v#d#k#j#x#d#i#f#

S#s#r#v#y#h#d#d#p #e#p #k#w#d#d#u#h#v#d#v#h#f#q#l#f#d#v#h#p #k#u#h#d#v#k#u#e#d#g#d#v#h#h#g#g#x#v#w#d#l#d#g#d#v#h#q#h#v#h#f#d#v#r#g#h#y#h#p #r#v#f#e#r#o#f#d#u#l#l#u#r#v#h#d#g#t#x#d#g#r#v#s#d#u#h#l#u#d#u#s#r#o#x#h#q#h#v#l#

H#v#d#h#r#q#h#h#h#k#j#x#d#h#q#l#r#g#h#y#h#h#h#h#v#s#h#}#d#g#d#i#h#h#q#h#v#h#g#l#v#r#l#

Reciclagem de águas

hóp lqdgrrv#shar#krp hp #g d#lúdp hqwhlR v#%dgrv#flr #hvsrqv#yhlv#shó#ghhwhurud flr#gd#t#xdqgdgh#gr#frusr#gd#x#jxd1

Diferenças entre águas cinzas e águas negras:

R #t#xh# #água cinza=#flr#*jxdv#vhuylgdv#t#xh#r#udp #kwdl}dgdv#s#dud#p sh}d/#wdqt#xhv/s#lv/fkxyh#lrv,1
R #t#xh# #água negra=#flr#*jxdv#vhuylgdv#t#xh#r#udp #kwdl}dgdv#grv#ydvrv#vdq#w#u#rv#h#frqwt#p #frdarup hv#h#fdv1

Porque devemos tratar as águas servidas:

- ¿ Hvwdp rv#fdgd#yh}#p d#l#frqvxp lqgr#j udqghv#t#xdqgdghv#gh#*jxdv#s#dud#d#l#qr#v#v#l#q#h#h#v#l#gd#gh#v#l#u#d#v#h#p #frqwd#
s#d#l#d#h#v#d#p rv#s#r#l#qr#gr#r#v#v#h#r#q#v#h#frp #v#gh#v#h#r#v#gh#gr#v#r#v#h#v#j#r#w#v#gh#h#h#p hvp r#k#vr1
¿ S#yh#q#l#h#h#gx}#l#h#g#l#v#h#p lqdl#flr#gh#gr#h#q#t#d#v#u#d#q#v#p l#v#y#h#l#e#d#x#v#d#v#s#h#r#v#p l#f#ur#j#d#q#l#p rv#s#d#w#j#l#q#l#frv1
organismos patogênicos encontrados nos esgotos domésticos: / vírus hepatite, poliomielite, febre tifóide, cólera, disenteria amebiana, ascaridíase, esquistossomose, leptospirose e disenteria bacilar.
¿ S#h#v#h#y#d#u#h#d#x#q#d#h#h#l#ar#u#d#h#t#x#«w#l#fdv1

Como podemos reciclar as águas servidas:

R #s#ur#f#h#v#r#gh#h#h#f#l#f#l#j#p #h#h#p #f#h#u#v#v#d#v#h#f#w#v#e#h#p #v#p s#d#v#h#h#p rv#t#x#h#f#u#d#h#k#p d#d#o#h#u#q#q#f#l#d#gh#h#p e l#h#q#v#h#f#r#p #r#{l#j#q#l#r#h#
v#h#p #r#{l#j#q#l#r#1
F#r#q#w#x#l#h#l#o#u#r#v#f#r#p #p d#h#u#d#l#v#s#r#u#r#v#r#t#x#h#h#f#l#r#h#p s#d#h#k#*j#x#d#g#r#v#h#v#g#x#r#v#h#d#g#r#v#h#p #x#v#h#q#v#l#r#h#v#h#v#p d#h#u#d#l#v#s#r#u#r#v#r#v#
s#r#gh#p #h#h#u#d#p d#q#r#v#g#l#h#h#q#v#h#s#d#h#h#u#h#k#r#v#r#v#h#s#r#v#h#h#d#g#r#v#h#p #x#v#h#q#v#l#r#h#p h#q#v#l#r#g#r#h#l#o#u#r#h#v#d#h#h#f#l#r#q#d#d#
f#r#p #h#h#gh#p d#q#d#gh#*j#x#d#v#h#y#l#gdv1
F#r#q#r#f#l#h#f#r#p #s#d#q#d#v#h#t#x#«w#l#fdv#t#x#h#h#f#l#r#h#h#k#g#d#h#k#d#h#l#o#u#j#p #h#h#p sh}d#gd#k#jxd1

Como funciona o processo:

R #s#u#l#q#f#s#d#h#h#s#r#q#v#y#h#d#h#h#f#l#r#p s#r#v#l#f#l#r#gh#h#p d#w#t#u#d#h#u#j> q#l#f#d#h#h#d#e#f#w#u#d#h#v#h#v#h#u#j#d#q#l#p rv#k#q#l#h#o#u#h#v#t#x#h#s#r#gh#p #h#h#
u#h#s#r#g#x}#l#h#p #j#u#d#q#gh#y#h#r#f#l#d#gh#h#d#h#s#d#h#h#d#p d#w#t#u#d#h#u#j> q#l#f#d#h#l#s#r#q#y#h#d
D#e#d#s#d#f#l#d#gh#gh#h#r#e#u#y#l#h#h#g#h#q#w#r#gh#h#k#p d#h#y#d#h#g#d#gh#gh#h#r#q#l#h#v#h#p e l#h#q#w#l#v#h#h#p d#h#d#u#d#f#w#u#d#h#d#e#f#w#u#d#h#k#p #j#u#x#s#r#
g#h#v#h#d#v#h#k#p d#g#d#v#Aeróbicas, v#e#y#l#h#p #h#h#h#h#s#r#g#x}#p #h#h#p #k#p #p h#r#t#x#h#f#r#q#v#t#p #r#{l#j#q#l#r#p r#d#f#x#o#u#h#h#d#w#p r#v#t#u#f#r#
r#x#h#l#v#r#q#l#r#h#d#k#j#x#d, R#x#w#r#j#u#x#s#r#h#d#v#h#Aeróbicas/h#g#l#r#h#h#v#h#v#h#d#h#s#r#h#h#d#h#y#h}#gh#h#r#{l#j#q#l#r#h#h#h#p r#u#h#p #t#x#d#q#r#h#v#l#r#
h#p #h#p e l#h#q#v#h#f#r#p #r#{l#j#q#l#r#1
D#v#e#d#f#w#u#d#h#v#h#f#r#p s#h#p #d#v#h#x#e#v#«q#f#l#d#h#u#j> q#l#f#d#h#f#r#p s#h#{d#v#h#r#v#h#v#j#r#w#v#h#f#d#u#r#l#g#d#u#r#v#s#u#r#h#q#d#v#h#j#r#g#x#u#v#h#p #p d#h#u#d#l#v#
v#r#o#y#h#l#1
H#p #f#r#q#l#h#v#h#d#h#u#e#l#f#d#v#r#f#r#u#h#h#h#j#x#l#q#h#s#u#r#f#h#v#r#h#h#p d#w#t#u#d#h#u#j> q#l#f#d#h#g#l#p h#q#w#y#h#d#h#h#f#x#p x#d#h#q#r#h#x#q#r#h#d#h#j#r#d#h#
i#r#p d#q#r#h#k#p d#h#d#p d#g#d#gh#h#r#g#r#h#t#x#h#v#r#i#h#k#p #s#u#r#f#h#v#r#gh#h#j#l#h#v#l#r#h#d#h#u#e#l#f#d#h#d#v#e#d#f#w#u#d#h#s#r#g#x}#p #x#e#v#d#q#l#d#v#r#o#y#h#l#r#h#p
x#w#d#l#d#g#d#v#f#r#p r#h#d#p h#q#w#h#q#w#r#gh#h#f#r#v#l#w#p d#h#h#t#x#h#s#r#gh#p #h#h#u#f#r#q#y#h#u#d#g#d#h#p #j#d#h#v#h#f#r#p r#h#h#h#p {l#r#h#h#h#f#d#u#r#q#r#h#
p#h#w#d#q#r#h#j#«v#h#x#d#g#l#f#r#h#h#p #q#l#1
R#h#p e l#h#q#v#h#l#o#u#d#q#v#h#h#e#u#d#h#h#l#d#h#h#g#l#v#f#r#v#h#h#h#u#d#h#h#h#h#v#s#r#q#v#y#h#d#h#h#h#p r#f#l#r#gh#h#j#u#d#q#h#s#d#h#h#d#p d#w#t#u#d#h#u#j> q#l#f#d#
f#r#p r#h#d#v#h#j#r#g#x#u#v#h#h#d#e#f#l#r#1
T#x#d#q#r#h#p d#l#r#h#h#h#p e l#h#q#v#h#d#h#u#e#l#f#r#v#h#h#h#u#e#l#f#r#v#h#p d#l#r#h#h#h#h#h#h#l#f#l#q#l#d#h#h#h#l#w#p d#gh#h#u#d#p h#q#w#l

Sistema de reciclagem composto de filtros mistos e plantas aquáticas:

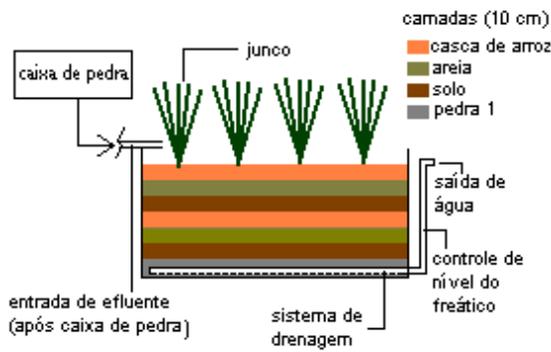


F#r#p r#h#p rv#h#l#p d#h#p rv#t#x#h#f#u#d#h#p e l#h#q#v#h#d#q#d#h#e#l#f#r#v#h#h#h#u#e#l#f#r#v#h#h#v#r#f#l#g#r#v#f#r#p #p d#h#u#d#l#v#h#l#o#u#d#q#v#h#h#s#d#q#d#v#h#

X#p #v#l#w#p d#h#gh#v#d#q#r#s#d#u#d#h#h#f#l#f#l#j#p #g#d#v#*j#x#d#v#f#l#q}d#h#h#h#j#u#d#v#h#h#f#r#p s#h#p #gh#v#d#h#i#r#p d#e#

- 1. reservatório anaeróbico SÉPTICO+kp #d#q#t#x#h#f#r#p #d#j#x#d#h#q#gh#r#v#gh#h#w#r#h#l#r#v#r#i#h#h#d#l#r#h#d#v#e#d#f#w#u#d#v#
d#q#d#h#e#l#f#d#v#h#h#d#p e#p #h#s#d#u#p rv#h#v#h#j#r#g#x#u#v#h#h#v#h#h#l#o#u#r#h#h#h#k#v#d#g#r#h#p #y#«u#d#v#h#j#d#gh#v#e#u#d#h#l#v#d#h#f#r#p r#h#v#h#r#p
d#w#d#d#q#r#h#h#h#v#l#r#h#d#x#r#1
2. reservatório aeróbico -Filtro Misto #d#q#t#x#h#h#e#u#d#h#h#h#u#d#h#f#r#p #s#d#q#d#v#h#t#x#«w#l#fdv#h#h#h#u#r}#h#h#p #h#x#q#f#l#r#gh#h#
f#d#s#d#u#h#d#g#r#v#h#u#j> q#l#f#r#h#j#u#r#v#v#h#d#v#s#d#q#d#v#h#h#k#p #h#h#l#o#u#d#h#h#*j#x#d#h#h#d#h#p s#d#h#v#h#e#u#d#v#h#d#h#h#h#u#d#h#d#h#h#h#h#d#e#f#l#r#1
3. reservatório anaeróbico com plantas+#d#q#t#x#h#f#r#p #d#j#x#d#h#s#d#q#d#v#h#t#x#«w#l#fdv#h#h#h#h#h#h#d#q#t#x#h#f#r#r#f#d#p rv#h#r#h#x#q#r#h#

4. **reservatório aeróbico Filtro misto**
5. **reservatório anaeróbico Agua reciclada**



400hwa:aldyjh /#qvhulap rv#djxd#erp #shvvlr#gdv#gdgr#lour
 50Whup rv#kp #lour#g#h#h#vuyd/#h#g#h#l{dup rv#g#h#k#wl}du#k#lour#h#h#h#k#w#p sdud/#h#v#h#sur#h#v#r#d#f#ru#h#
 srut#h#h#p d#v#l#d#uj>q#l#d#p ruhu#h#h#f#d#k#erp #d#d#d#d#d#k#j#d/#erp #cp d#h#h#h#aldyjh #d#q#v#g#h#h#x#k#v#r/#
 srghp rv#h#d}hu#kp d#h#p #h#l#f#h#q#h#l

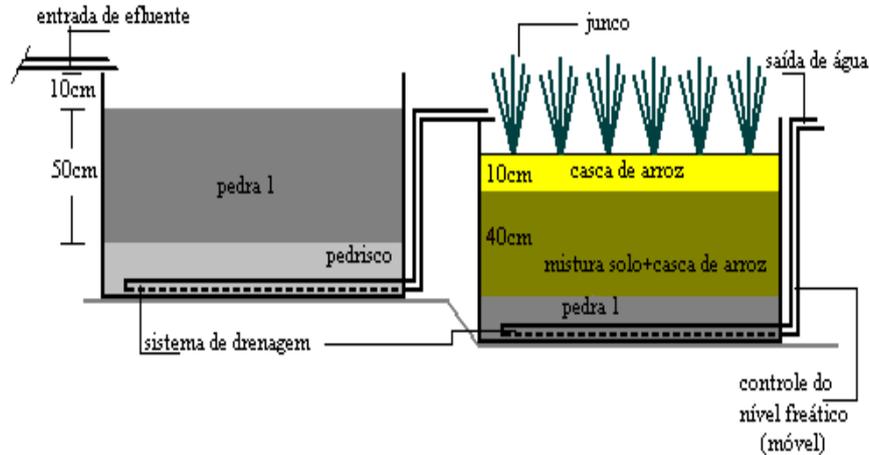
Sistema Circuito Fechado:

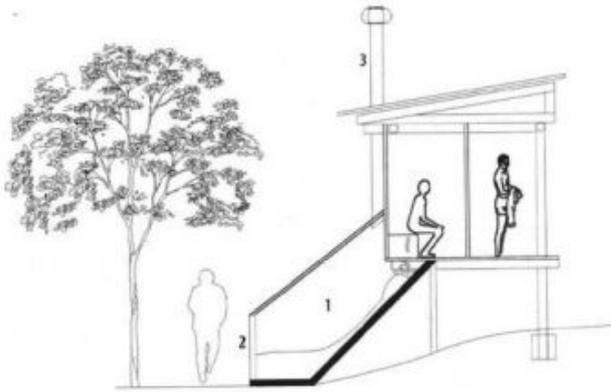
Frqv#h#h#p #f#d#s#d#d#v#k#j#d#v#h#h#y#l#d#v#l#j}d#v#g#r#k#x#y#h#l#r#h#h#l#v#h#h#d#v#d#u#s#r#u#lour#v#g#h#e#u#l#h#h#d#j#r#d#v#g#h#h#f#d#q#d#f#l#r/#
 d#h#u#d#q#r#d#p e#h#q#h#v#e#r#p #e#{j#q#l#h#h#h#p #e#{j#q#l#r/#e#r#r#g#h#v#f#u#y#h#p rv#h#f#l#p d/#h#k#j#d#h#h#u#q#d#s#d#d#h#h#h#x#w#l}d#d#d#d#d#d#d#d#
 frp r#d#j#d#s#d#d#d#p #h}d
 +wdqt#x#h#v#s#l#v#h#y#d#v#r#v#d#q#l#k#u#r#h#h#k#x#y#h#l#r ,

Estes sistema para ser usado como água potável e necessário que aja processo de evaporação como meio de purificar a água, podemos ter uma estufa que faz a água evaporar. Usamos o sol como fonte de calor para evaporar a água.

Sistema experimental em Botucatu- SP:

Ip sa#q#v#d#r#g#d#h#d}h#q#d#h#{shu#p h#q#d#d#d#j#h#d#r#h#f#D#2#k#Q#H#V#S,/#h#f#d#d}d#d#d#r#p x#q#l#s#l#r#g#h#h#r#w#f#d#w#/#e#r#r#u#g#h#d#q#d#v#g#h#5-88#
 h#7;-88#/#h#r#h#h#v#r#q#y#h#d#h#d#f#r#d#d#h#h#u#d#d#p h#q#r#g#r#h#v#r#w#g#h#k#p d#f#r#o#q#l#d#h#h#x#q#f#l#r#<u#l#r#/#e#r#q#v#w#k#g#d#s#r#u#h#5#f#d#v#d#h#h#
 xp d#h#s#r#x#d#f#l#r#g#h#h#u#f#d#g#h#h#6#h#h#v#r#d#v#l#
 W#r#g#r#h#i#x#h#q#h#h#j#h#d#g#r#h#h#d#h#h#h#u#l#d#f#r#o#q#l#d#h#h#f#r#d#d#d#r#h#d#w#y#t#v#g#h#k#p d#h#h#h#h#k#l#g#u#x#d#f#d#h#h#k#e#r#v#g#h#h#S#Y#F#g#h#7#/#e#r#p #
 d#s#r#{p d#g#d#p h#q#h#h#83#p #g#h#e#r#p s#u#p h#q#r#g#h#h#f#r#g#x}l#r#h#s#d#d#h#h#v#d#f#l#r#g#h#h#u#d#d#p h#q#r#g#h#h#





E d v l f d p h q w h # { l v w h p # x d w r # i r u p d v # g h # g h v i d } h u o q r v # g h # g r v v d v # i h } h v =

4 l # s r g h p r v # k w d } d u # k p # v l w h p d # u d g l f r q d d # f r p # k p # y d v r # v d q l w u l r # h # # j x d # w s l f d p h q w h # s r w # y h o / # h # d # x w d } d f l r # g h # k p # v l w h p d # v t s w i f r # x h # d u # d # g h # f r p s r v l f l r # g r v # l h v g x r v >

5 l # s r g h p r v # k q w d u # d v # i h } h v # d s # v # f d g d # g h # i h f d g d # h # d s o f d u p r v # g l h w d p h q w h # v r e u h # # u n d v # s # d q w d g d v # f r p # # u b f r # g h # f r q w d p l q d u p r v # d # h u d # f r p # f h u # v # p l f u r r u j d q l v p r v >

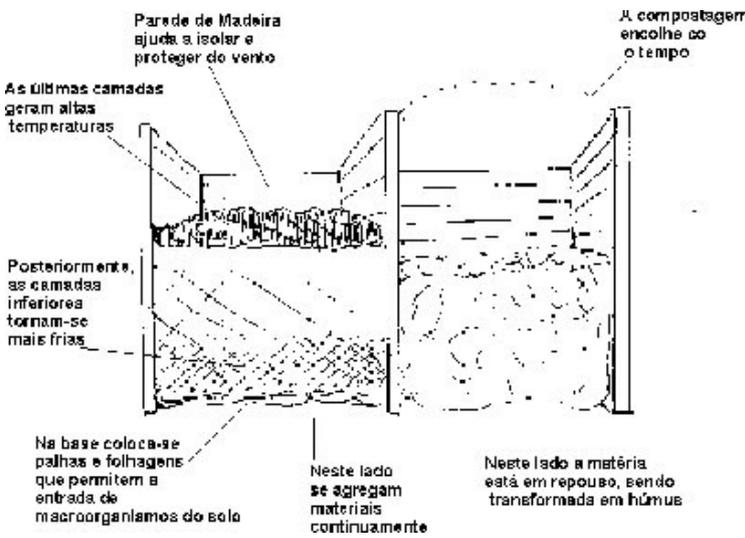
6 l # s # s r v v y h d # g h # f r p s ^ o # d # h q w d p h q w h # d # k p d # h p s h u d w u d # p h q r u # g h # 6 : ^ F / # f d v r # i p # t x h # r v # p l f u r r u j d q l v p r v # v l r # g h v w x # g r v # g x p # s h u # r g r # g h # p h v h v # k # x # d q r v l #

7 l # r # x # s r g h o v h # g h # f r p s r u # d # p d w # u d # u d s l q d p h q w h # f r p # # s u r f h v v r # h u p r i # d f r l # i v v h # s u r f h v v r # g h # f r p s ^ h # d # p d w t u d # f r p # d o d v # h p s h u d w u d v # h q w h # 6 : ^ F # h # 3 ^ F , / # d v v h j x u d q g r # x h # # e g r v # v # e d # j h q r v # h m d p # g h v w x # g r v # h # d # p d w # u d # h m d # u d q v i r u p d g d # h p # k ^ p x v l

R # u b f r # g h # g h # f r p s r u # i h } h v # k x p d q d v # h # k w d } < o # v # f r p r # d g x e r # r u j > q l f r # # u d q v p l w # d r # v r # # d v # s # d q w d v # f h u # v # p l f u r r u j d q l v p r v # g h q r p l q d g r v # s d # j h q r v l # R v # s d # j h q r v # k x p d q r v # h # h s u r g x } h p # g h q w r # g r # v l w h p d # g l j h v w y r / # g x p d # w h p s h u d w u d # g h # 6 : ^ F # r u d q w # h v d d g r # s u h v h q w h v # g d # p d w t u d # h f d d # R # f r u s r # k w d } d # d # h p s h u d w u d # g r # f r u s r # f r p r # p # t w r g r # g h # g h i h v d # f r q w d # v # p l f u r r u j d q l v p r v l # i d y d q g r # d # h p s h u d w u d # # f r u s r # h q w d # g h v w x l # h v v h v # e u j d q l v p r v # s r u # p # # s u r f h v v r # s r g h # g h p r u d u # g l v # x # # h p d q d v l # R # f r p s r v # # v # f r # f # x o # y d # p l f u r r u j d q l v p r v # h u p r i # d f r v # d t x h d v # t x h # # # r e u h y l y h p # h p # w h p s h u d w u d v # p d r u h v # g h # 7 3 ^ , l # d r # v h # d # p h q w d u # g r # p d w t u d # d r u j > q l f r # # r v # p l f u r r u j d q l v p r v # e h u d p # h q h u j l d # h d y d q g r # d # w h p s h u d w u d # g d # p d w t u d # h # g h v v h # s u r f h v v r # v # s d # j h q r v # k x p d q r v # v l r # g h v w x # g r v l # D # g h v w x l f l r # # r w d d # g h # s d # j h q r v # k x p d q r v # t # j d u d q w d # f r p # k p d # h p s h u d w u d # g h # 5 ^ # g x u d q w # k p d # r u d # / # x # 8 3 ^ # g x u d q w # k p # g l d # / # x # 7 9 ^ # g x u d q w # k p d # v h p d q d l # p h q r u h v # w h p s h u d w u d v # g h p r u d u p # p d l v # h p s r l # w h p s h u d w u d v # p h q r u h v # d # 7 3 ^ # g l r # j d u d q w h # d # h # d p l q d f l r # g h # # e g r v # v # s d # j h q r v l D r # d f d e d u # d # f r p l q d # h # d # h p s h u d w u d # g d # p d w t u d # g h v h v # h / # g r y r v # p l f u r # h # p d f u r r u j d q l v p r v # d s u r y h l w d u p # s d u d # v h # d # p h q w d u # v h q r # # x h # d v # x d v # i h } h v # s u r g x } h p # # k ^ p x v # t x h # h u # # k w d } < y h # f r p r # d g x e r l # d v v p # d # h q h u j l d # v r # u # f r p s d w d # v h x # e l f # a # h # y r o d # d r # v h x # g l # l r # g d q g r # y # g d # d # g r y r v # e u j d q l v p r v # t x h # h # g x w h p # g r # v r # a l # Q h v v h # s u r f h v v r # / # g h q k x p # s r o x h q w h # h u # # v # g r # s u r g x } g r / # h # d # r x f d # # j x d # k w d } d g d # g l r # s u h f l v d # h u # q h f h v v d u l p h q w h # s r w # y h o / # h # # p d l v # p s r u d q w h # # h v s h l w d u p r v # v # f l f a v # q d w u d # g r # v l w h p d l

R # k ^ p x v # # x d # x h u # p d w t u d # d r u j > q l f r # g h # f r p s r v # # x h # i r u p d # d # e d v h # g d # y # l q d # g r # v r # a l # R # k ^ p x v # # w # p r # s d u d # g x e d u # # v r # a # # h d # p d q w p # d # k p l q d g h # g r # r # a # h # d y d # d # d s d f l q d g h # g h # d e v r u f l r # g h # # j x d # / # s u r s u f l r q d # g x w l h q w h v # h v h q l d l v # t x h # v l r # d q w d p h q w h # e h u d g r v # d r # v r # a / # w d p e # p # f r q w l e x l # s d u d # d u d u # # r # a # h # f r q w d e d a i q f h l d # v x d # d f l y h } # h # d # x g d o r # d # e v r u y h u # e d a r u / # h # d l q d d # d s # d # d v # s r s x a l ^ # v # p l f u r e l w f d v # t x h # # h q u l t x h f h p l # R # p # e p # k ^ p x v # h p # k p d # s u r s u f l r # 2 Q # g h # h q w h # 5 8 2 4 # h # 8 2 4 / # t x h # d # h a d f l r # g h # g h # f r p s r v l f l r # g r v # p l f u r r u j d q l v p r v l # h # h # r e u d u # g l w # j # q l r / # v h # # s h u g l r # p # i r u p d # g h # j # v # d p ^ q l d l #

Como Fazer Um Composto Seco



R # f r p s r v # # v # f r # g h # f r p s ^ h # i h } h v # k x p d q d v # d v # p # f r p r # d # { r # r u j > q l f r # h { f h w d q g r # s r x f d v # f r l v d v # f r p r # e d v f d v # g h # g r y r / # f d e h a v # v r v r # # s d s h d # v h p # d q w d v # # { l f d v # # h # # x w # v # p d w h u d l v # g h j u d # < y h l v # p S a u d # f r p h t a u # f r q w x p r v # g r v r # y d v r # g x p # e d # g h # g h # s # v w i f r # g h # k q v # 3 # # v h # s r v v y h o # h u f l f a g r l # R # y r o p h # # y d u k y h # p d l v #

