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Thread: **Structure!**

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1. 04-17-2010 #1

ktccd

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Join Date Sep 2009 Posts

751

Thumbs up Structure!

Hello boys and girls, women and men. I've seen some awful coding a lot, so I thought I'd show you how to create a nice, readable, structure, which you will hopefully be able to read in a year if you open your code again. A lot of people code in a way that I bet they won't have a clue what it is about if they open the code 5 months later.

Important tip:

The code can look messy when using the code tags in this forum. I suggest you copy-paste it into your notepad/notepad++ if you want to see the structure better.

Let's start with the directories.

This is a bad example of how to write them:

Code:

@name Example
@inputs S V:vector VE:vector VT:vector

2 of 12 10/5/2024, 7:24 PM

```
@persist E:entity EE:entity O:entity T:entity CV:vector EA:angle TA:angle
While this might be faster to write, it is much harder to understand.
Here's a good example of code (though personally I write like this, and I think it's really nice structure):
Code:
@name Example
##Numbers##
@inputs StartButton
##Vectors##
@inputs [MainVector EntityVector TargetVector]:vector
##Entities##
@persist [MainEntity SecondaryEntity Own Target]:entity
##Vectors##
@persist [Color]:vector ##Why use this for one variable? Well, what if I modify this later on to need more? Good structure is easily modifyable##
##Angles##
@persist [MainAngle TargetAngle]:angle
Now isn't that much easier to read and modify later on?
Let's try some general code!
first, an example of bad code (Let's assume the coder has learned from the previous example, and use good variable names now):
Code:
if (Target){
Target:applyForce((MainVector-Target:vel())*Target:mass())}
or even worse (and I've seen this on the forums before...):
Code:
if (Target){Target:applyForce((MainVector-Target:vel())*Target:mass())}
Sure, the above code takes less space, but is barely readable.
If someone gave me this code and expected help, I'd point them to this tutorial and ask them to return when they made it readable.
Code like this gives me a headache (and I wrote it assuming they name variables well. Most often, they don't do that... which makes it even worse).
Here's how I code, and hope you will too (or at least try when you post it for others to read):
Code:
if (Target) ##If there is a target##
        ##Apply force code##
        Target:applyForce((MainVector - Target:vel()) * Target:mass())
Now isn't that a lot easier to read?
Notice the comments. While you may understand it perfectly well, if you want to release the code, I suggest using comments so that others will understand it better.
```

I for one would often like to modify the code I find on the forums, so good structure and commenting is a very good thing.

Optional part of tutorial, example.

 $3 ext{ of } 12$ $10/5/2024, 7:24 ext{ PM}$

Here's an example of how I actually code when I expect someone else to read/use/modify it: Code: @name Blocko #I have a specific setup when I code. it makes it easier to see everything. #make your own structure that you feel you're comfortable with. ##Numbers## @persist SpeedMod SlowMod Dist ##Entities## @persist [Target E Own]:entity ##Vectors## @persist [TarPos TarVec]:vector ##Arrays## @persist [Said]:array ##Tables## @persist [Commands]:table ##Set model## @model models/hunter/blocks/cube025x025x025.mdl if(first()) SpeedMod = 100 ##Change this as you see fit. This is the applyForce speed modifier## SlowMod = 1 ##make this higher to make the entity move slower when not attacking## Dist = 100 ##how far away from you the entity is when not attacking## #interval(10) #I prefer: This whole and it while really tired, but it works for this purpose. Namely, showing you all how good structure is used ^^.
This is easily readment understod, and easily modifyable. ##On or off commands## Commands["attack", number] = -1 Now, thanks for reading tack I hable strings ear something from the now do for targets in this code##

Comment if you think something should be added, or if you disagree and so on. I'm not afraid of some constructive criticism ^^. Share ##ChatShammahids##st on if (chatClk(Own)) **- ⊞Kaiœiocha**t message## Said = Own:lastSaid():lower():explode(" ") ##Check is there is such a command## ■ **inviteom**inands[Said[1,string],number] == -1) ##Set that command to 1## Reply With Quote Reply Compands [Seid[1, string], number] = 1 ##Set target## Commands[Said[1,string],string] = Said[2,string] ##This is a players name, or part of it## 2. 04-17-2010 #2 Target = findPlayerByName(Commands[Said[1,string],string]) ##Find the player## -HPif (Target) ##If players is found## -HP- is offline hint("Player " + Target:name() + " has been found!",4) Developer Linked Steam Account Liked Much Liked -HP-'s Avatar hint("Player could not be found with the string " + Said[2,string] + ", please try another string...",4) Join Date ##Set all other commands to -1 again## Feb 2009 ##<Commands yet to be made>##

4 of 12 10/5/2024, 7:24 PM

```
Location
         Behind you with a very sharp knife. ##These commands are toggle values. This turns it off if it was on##
  Posts
                 elseif (Commands[Said[1,string],number] == 1)
         2,487
  Send a message via Skypommands[Baid[1,string],number] = -1
                          Commands[Said[1,string],string] = ""
  Default Re: Structure!
         ##Chat commands done## Although I don't like your style of commenting, this will hopefully learn people to code less shitty. Good job [noparse] [noparse]
      Share
        ##Attasking#his post on
if (Commands["attack", number] == 1)
{
                ##Ifidheme is a target##
                if (Target)
Technorati
            ■ Twitter TarPos = Target:pos() + Target:boxCenter() ##makes it find his middle, instead of his feet##
   Reply With Quote Reply WYGC Quoter Pos - E:pos() ##make a directional vector out of it##
                          E:applyForce(TarVec * E:mass() * SpeedMod)
3. 04-17-2010 <u>#3</u> }
  ktccd else
  ktccd isto filish there is the default mode, when nothing else is on, set this last##
  Wire Sofaking ktccd's Avatar
                  TarPos = Own:forward() * Dist + Own:boxCenter() ##This should make it fly a bit in front of you##
                 TarVec = TarPos - E:pos()
  Join Date
                 E:applyForce((TarVec - E:vel() * SlowMod) * E:mass()) ##much smother movement. you don't want to die yourself, do you?##
        $ep 2009
  Posts
         #斯內 ktccd, AKA Delta##
```

Default Re: Structure!

Yay ^^.

Wait, you meant the ##text## instead of # part? IDK, I picked it up somewhere... might've been a habit I just developed by modifying XML code (they have start and end tags for comments ^^). Funny thing is, I never knew anything about XML until yesterday. And I still, rather successfully, modified the code to work well ^^.

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4. 04-17-2010 #4

Squeakyneb

Squeakyneb is offline

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 $5 ext{ of } 12$ $10/5/2024, 7:24 ext{ PM}$

```
Join Date
May 2008
Posts
558
```

Default Re: Structure!

```
Quote Originally Posted by ktccd View Post
  Code:
  if (Target){Target:applyForce((MainVector-Target:vel())*Target:mass())}
  Sure, the above code takes less space, but is barely readable.
  I don't mind that at all. I use that sort of structure for small things, like:
  Code:
  if(!Target){Target = owner()}
  IMHO, to make code readable: (I realise that the if(first()) section is a bit odd, but it's a good example.)
  Code:
  #tab your code in properly
  if(first()){
          #That's a tab, or tabspace there
          if(entity():isWeldedTo()){
                   #Tab it in another step
                   Prop = entity():isWeldedTo()
                   runOnTick(1)
          }#Finished the if/then, so step out 1 tab.
          #This tabbing should also apply to for/do and while/do loops
  #Use variables to spread code out
  Direction = Target:pos()-Prop:pos()
  Force = (Direction*10-Prop:vel())*Prop:mass()
  Prop:applyForce(Force)
#iRDAThichightenin Prop:applyForce((Target:pos()-Prop:pos()*10-Prop:vel())*Prop:mass())
  update: E2 highlight is rly smallll. wtf
  Last edited by Squeakyneb; 04-17-2010 at 05:03 AM.
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```

Quote Originally Posted by **Bull** View Post

I'm annoyed at having to use my keyboard when coding. Can someone please make voice-recognition so I can just talk?

 $6 ext{ of } 12$ $10/5/2024, 7:24 ext{ PM}$

Reply	With	Quote	Reply	With	Quot

5. 04-17-2010 <u>#5</u>

ktccd

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751

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Join Date Sep 2009

Posts

Default Re: Structure!

I know > <

Before the forum update, highlight=e2 was so awesome... now it's unuseable.

Also, I wouldn't mind it for small codes, but it *does* make it harder to read and is slightly more annoying to modify. This is about good structure, bad structure is not *always* unbearable ^^.

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6. 04-18-2010 <u>#6</u>

<u>emspike</u>

emspike is offline

Wire Sofaking

Liked

emspike's Avatar

Join Date

Feb 2008

Posts

958

Default Re: Structure!

##comment## could be a viable syntax for inline comments...

Protip though, if you have lots of comments used for marking off sections of related code, especially if you have multiple levels of headings, indent the sections. It gives the code visible cohesion.

Also:

Code:

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Posts

<pre>Target = Target ?: owner()</pre>
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http://adf.ly/?id=596985
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7. 04-18-2010 #7 ktccd ktccd is offline Wire Sofaking ktccd's Avatar
Join Date Sep 2009 Posts 751
Default Re: Structure!
Good tip there ^^. Make the section-comments more like headlines or something. Make them stand out more (thus more readable).
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8. 04-18-2010 #8 dracotonisamond dracotonisamond is offline Lifetime Supporter Like a boss! dracotonisamond's Avatar
Join Date Jun 2009 Location 127.0.0.1

376

Default Re: Structure!

awesome. finally someone writes something like this. maybe we will stop seeing spaghetti code around in the massive numbers like it has been.

```
i have always written in this style due to my heavy experience in pure C.
  Code:
  if(Borg!=0)
      Shoot=1
  else
      Shoot=0
  it may make your code "longer", but it is much neater and easier to debug for yourself.
  also. i usually declare the commonly used variables in my code at the very top like this
  Code:
  @name See?
  @inputs
  @outputs
  @persist
  runOnTick(1)
  #Common Variables
  E=entity()
  EP=E:pos()
  EA=E:angles()
  0=owner()
  OP=0:pos()
  and yeah, i admit using the "bad" way of coding for only one thing.
  Code:
  if(duped()){selfDestructAll()}
  Last edited by dracotonisamond; 04-18-2010 at 02:30 PM.
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  Quote Originally Posted by JatGoodwin in wiremod IRC
```

<JatGoodwin> ITSBTH, the point of rainmeter is to impress the lamers with your leet computer

<JatGoodwin> software equivalent of putting lights in your computer

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9. 04-18-2010 #9 ktccd ktccd is offline Wire Sofaking ktccd's Avatar Join Date Sep 2009 Posts 751 Default Re: Structure! Heh, I'd actually write that as: Code: Shoot = Borg Does the same thing too, But as for the structure of your code you get an A ^^. Easy to add debug, modify and follow.

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10. 04-18-2010 #10

dracotonisamond

dracotonisamond is offline Lifetime Supporter Like a boss!

dracotonisamond's Avatar

Join Date Jun 2009 Location 127.0.0.1

Posts 376

Default Re: Structure!

yes, but if Borg was greater than 1, say if it was the amount of targets, it would always be one.

but it was just merely showing the syntax, the code was more or less pseudo code.

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Quote Originally Posted by JatGoodwin in wiremod IRC

<JatGoodwin> ITSBTH, the point of rainmeter is to impress the lamers with your leet computer

<JatGoodwin> software equivalent of putting lights in your computer

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Structure!

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