转载请注明来源: http://www.cnblogs.com/dsmilely && dsmilely@163.com

进入Sample项目,用户名密码为PIPE,MDB为PIPE

在本教程中将会介绍在PDMS中如何设置新的颜色规则,用于不同系统的管道,例如设置消防水系统管道为红色显示。

## 1、打开Auto Colour Rules

- 步骤一: 切换到Piping模块Design——Pipework...
- 步骤二:菜单栏Settings——Graphics——Colour
- 步骤三: 勾选Auto Colour, 选择Auto Colour Rules...

A Graphic	s Setting	gs			1 X
3D Views	Colour	Representation	Steelwork	Plines &	Ppoints
General Colours					
CE		A	ids		
Active		н	lighlight		
Visible					
📝 Auto (	Colour				
V Dynamic Auto Colour					
Auto Colour Rules					
Load	Save	ОК	Can	cel	Apply

## 2、设置颜色规则

- 首先以消防水系统管线为例为大家介绍设置颜色规则的一般流程,之后介绍各个可选项的设置对模型显示效果的影响
- 进入Auto Colour Rules窗口

A Auto Colour Rules	
Data Input	
Rule	
Rule Name Unset	± Element Rules
Colour	
Specific 👻 grey	
Translucency SOLID - Edges	
Cut Co	ppy Replace Insert Before -
Data Display	
Rules	Colour For Selected Rule
	Specific forestoreen
Structural Hull Zones =	oresigneen
All Sections	Expression
All Equipment	Unset
All Hangers	Translucency SOLID
All Pipe Branches	Edges On
All Handrails	
Structural Panels	

上图中红色框选步骤为设置一般流程,绿色框内容可根据需求进行设置,具体含义及设置方法在 第三部分介绍

• 选择Element Rules...,进入Define Rules窗口,按照下图设置。设置完成后单击Include按钮, 当Defined中出现红框内容时,说明新加规则成功,单击OK按钮完成设置

A Define Rules		
File		
Element Rules Definition		
Name	FW-FIRE WATER	
Types	BRA	
Rule	MATCHWILD ( NAME OF OWNER ,  *FW*  )	
Description	Fire water colour	
Defined	Include Replace	Remove
User Defined Rule	es	E
FW-FIRE WAT	ER	
PDMS Defined Ru	ules	
All Equipment		
All Equipment2		
All Fittings		
All Frameworks		
All Hangers		
All Pipe Branch	les	
All Structures		
All Sub Equipme	ent	· · · · · · · · · · · · · · · · · · ·
OK		Cancel

Name:规则名称 Type: 规则类型 Rule: 规则,通过PML表达式进行设置 Description: 规则描述

• 回到Auto Colour Rules窗口, Rule Name后边黑色向下箭头, 弹出Select an Auto Colour Rule窗口,选择刚刚设置好的规则"FW-FIRE WATER"

A Auto Col	our Rules 📃 🗖 🗙
- Data Input-	
Rule	
Rule Name	Element Rules
Colour	A Select an Auto Colour Bule
Specific	
Terrebut	
Transluc	Building Block Area
	Building Level Area
	Insulation Requirements Insert Before -
	Cable Tray Elements
<ul> <li>Data Displ</li> </ul>	HVAC Spools
Rules	Pipe Spools Rule
	FW-FIRE WATER
Structura	↓ forestgreen

• 如下图选择红色

A Auto Colour Rules	
Data Input	
Rule	
Rule Name FW-FIRE WATER	Element Rules
Colour	
Specific 👻 📰 grey	
Translucency SOLID -	Edges 📃
Cut	Copy Peplace Insert Before -
Data Display	🖌 Colour for AutoColour Kale
Rules	Colours
Structural Hull Zones	
All Sections	
All Equipment	
All Hangers	
All Pipe Branches	
All Handrails	
Structural Panels	grey
Industrial Buildings CEloors	
	Reset Dismiss
OK	Cancel

• Dismiss后,单击Auto Colour Rules窗口Insert按钮,将新建规则Data Display中,点击OK确认使用,回到Graphocs Settings窗口,单击OK

A Auto Colour Rules	
Data Input	
Rule	
Rule Name FW-FIRE WATER ± Element Rules	
Colour	
Specific 👻 📕 red	
Translucency SOLID - Edges	
Cut Copy Replace Insert Befo	ore 👻
Data Display	
Rules Colour For Selected Rule	
Specific red	
FW-FIRE WATER	
Structural Hull Zones	
Al Sections	
All Equipment 3D Views Colour Representation Steelwork Plines & Ppoints	
Al Pipe Branches General Colours	
Al Handrails C.F. Aids	
Active Highlight	
OK Visible	Cancel
Auto Colour	
Chasmic Auto Colour	
Auto C Jour Rules	
Load Save OK Cancel Apply	

## 3、测试设置效果

- 添加管线到模型显示窗口,默认为黄色,如下面左图所示
- 修改管线名称为2001-FW后,先隐藏管线再重新添加管线到显示窗口,此时管线颜色已经发生变 化为红色,如下图有图所示



此时,颜色规则设置一般流程已介绍完毕。而前文中提到通过设置可选项,使模型显示效果更加 多元化,为设计工作带来便利,具体设置及效果详见下图

Auto Colour Rules	
Data Input	
Rule	
Rule Name FW-FIRE WATER	
Colour 设置透明度	
Specific 🗸 🗾 red	
Translucency 50% - Edges	☑ ← 设置模型外轮廓线
Cut Co	py Replace Insert Before -
Data Display	替换Data Display中选中规则
Rules	Colour For Selected Rule
	Specific red
FW-FIRE WATER E	Expression
All Sections	Unset
All Equipment	Translucency SOLID
All Hangers	Edges Off
All Pipe Branches	
All Handralls 选中此处规则时,有边	红框内显示规则相关配置
ок	Cancel

• 透明度50%



• 勾选模型轮廓线



• 透明度50% + 勾选模型轮廓线



参考资料: 1、DESIGN Reference Manual - General Commands

下节预告,"如何通过系统文件配置颜色规则",敬请期待!