直系同源预测方法

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使用Perl绘制统计图

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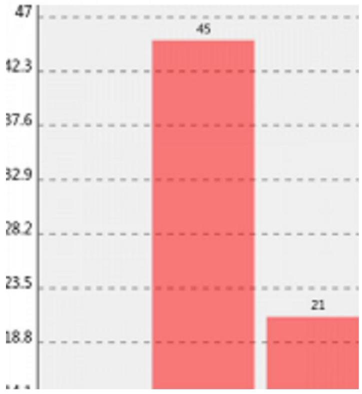
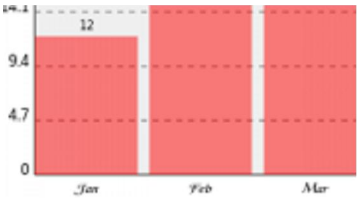
Bar

代码如下：

```perl
#!/use/bin/perl

use SVG::TT::Graph::Bar;

my @fields        = qw(Jan Feb Mar);
my @data_sales_02 = qw(12 45 21);

my $graph = SVG::TT::Graph::Bar->new(
  {
      'height' => '500',
      'width'  => '300',
      'fields' => \@fields,
  }
);

$graph->add_data(
  {
      'data'  => \@data_sales_02,
      'title' => 'Sales 2002',
  }
);

open( my $fh, '>', "bar.svg" );
select $fh;
binmode $fh;
print $graph->burn();
close($fh);
```

结果图片：



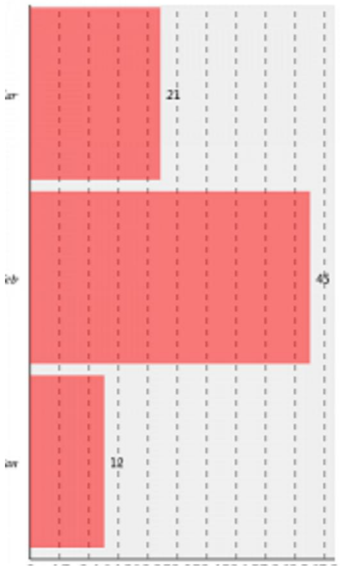


BarHorizontal

代码如下：

```perl
#!/use/bin/perl
use SVG::TT::Graph::BarHorizontal;

my @fields        = qw(Jan Feb Mar);
my @data_sales_02 = qw(12 45 21);

my $graph = SVG::TT::Graph::BarHorizontal->new(
  {
      'height' => '500',
      'width'  => '300',
      'fields' => \@fields,
  }
);
$graph->add_data(
  {
      'data'  => \@data_sales_02,
      'title' => 'Sales 2002',
  }
);

open( my $fh, '>', "barhorizontal.svg" );
select $fh;
binmode $fh;
print $graph->burn();
close($fh);
```

运行结果：

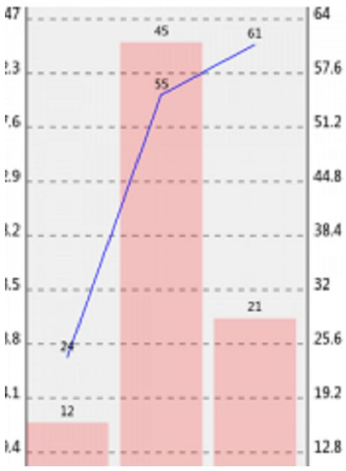


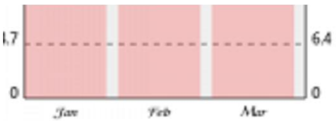
- **BarLine**

代码：

```perl
#!/use/bin/perl

use SVG::TT::Graph::BarLine;

my @fields        = qw(Jan Feb Mar);
my @data_sales_02 = qw(12 45 21);
my @data_sales_03 = ( 24, 55, 61 );

my $graph = SVG::TT::Graph::BarLine->new(
  {
      'height' => '500',
      'width'  => '300',
      'fields' => \@fields,
  }
);
$graph->add_data(
  {
      'data'  => \@data_sales_02,
      'title' => 'Sales 2002',
  }
);
$graph->add_data(
  {
      'data'  => \@data_sales_03,
      'title' => 'Sales 2003',
  }
);

open( my $fh, '>', "barline.svg" );
select $fh;
binmode $fh;
print $graph->burn();
close($fh);
```

运行结果：



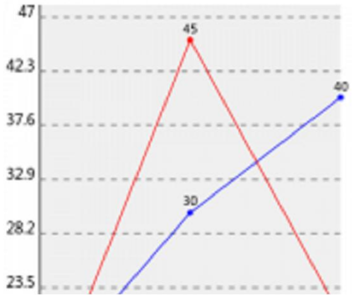


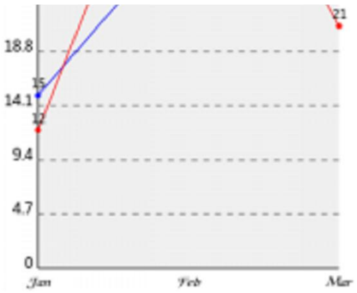
- **LINE**

代码：

```
#!/use/bin/perl

use SVG::TT::Graph::Line;

my @fields        = qw(Jan Feb Mar);
my @data_sales_02 = qw(12 45 21);
my @data_sales_03 = qw(15 30 40);

my $graph = SVG::TT::Graph::Line->new(
  {
      'height' => '500',
      'width'  => '300',
      'fields' => \@fields,
  }
);

$graph->add_data(
  {
      'data'  => \@data_sales_02,
      'title' => 'Sales 2002',
  }
);

$graph->add_data(
  {
      'data'  => \@data_sales_03,
      'title' => 'Sales 2003',
  }
);

open( my $fh, '>', "line.svg" );
select $fh;
binmode $fh;
print $graph->burn();
close($fh);
```

运行结果：



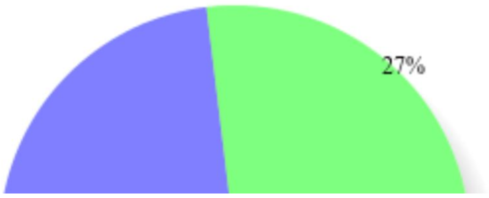


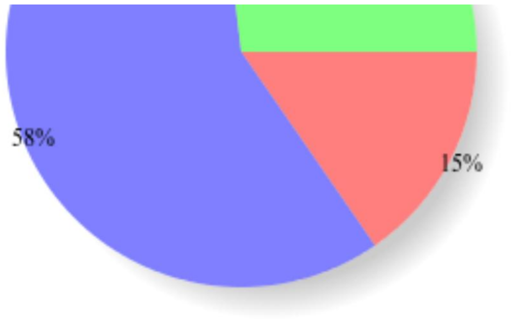
- **Pie**

代码：

```perl
#!/use/bin/perl

use SVG::TT::Graph::Pie;

my @fields         = qw(Jan Feb Mar);
my @data_sales_02 = qw(12 45 21);

my $graph = SVG::TT::Graph::Pie->new(
  {
      'height' => '500',
      'width'  => '300',
      'fields' => \@fields,
  }
);
$graph->add_data(
  {
      'data'  => \@data_sales_02,
      'title' => 'Sales 2002',
  }
);

open( my $fh, '>', "pie.svg" );
select $fh;
binmode $fh;
print $graph->burn();
close($fh);
```

运行结果：





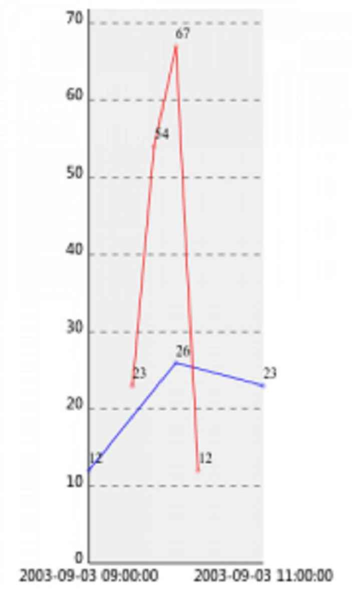
- **TimeSeries**

代码：

```
#!/use/bin/perl

use SVG::TT::Graph::TimeSeries;

my @data_cpu = (
  '2003-09-03 09:30:00', 23, '2003-09-03 09:45:00', 54,
  '2003-09-03 10:00:00', 67, '2003-09-03 10:15:00', 12
);
my @data_disk = (
  '2003-09-03 09:00:00', 12, '2003-09-03 10:00:00', 26,
  '2003-09-03 11:00:00', 23
);

my $graph = SVG::TT::Graph::TimeSeries->new(
  {
      'height' => '500',
      'width'  => '300',
  }
);

$graph->add_data(
  {
      'data'  => \@data_cpu,
      'title' => 'CPU',
  }
);

$graph->add_data(
  {
      'data'  => \@data_disk,
      'title' => 'Disk',
  }
);

open( my $fh, '>', "timeseries.svg" );
select $fh;
```

```
binmode $fh;
print $graph->burn();
close($fh);
```

运行结果：

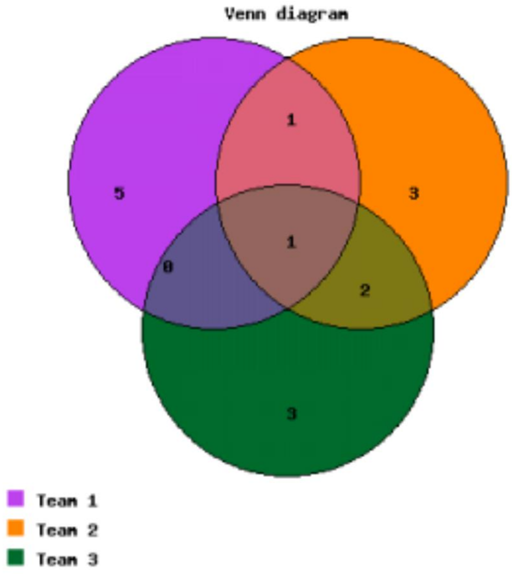


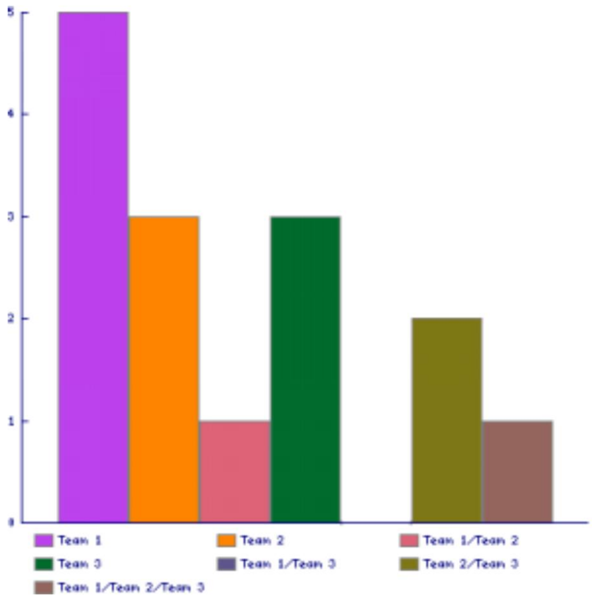
- **Venn**

```
#!/usr/bin/perl
use warnings;
use Carp;
use strict;

use Venn::Chart;

# Create the Venn::Chart constructor
my $VennChart = new Venn::Chart( 400, 400 ) or die("error : $!");

# Set a title and a legend for our chart
$VennChart->set( -title => 'Venn diagram' );
$VennChart->set_legends( 'Team 1', 'Team 2', 'Team 3' );

# 3 lists for the Venn diagram
my @Team1 = qw/abel edward momo albert jack julien chris/;
my @Team2 = qw/edward isabel antonio delta albert kevin jake/;
my @Team3 = qw/gerald jake kevin lucia john edward/;

# Create a diagram with gd object
my $gd_venn = $VennChart->plot( \@Team1, \@Team2, \@Team3 );

# Create a Venn diagram image in png, gif and jpeg format
open( my $fh_venn, '>', "VennChart.png" );
binmode $fh_venn;
print {$fh_venn} $gd_venn->png;
close($fh_venn);

# Create an histogram image of Venn diagram (png, gif and jpeg format).
```

```
my $gd_histogram = $VennChart->plot_histogram;
open( my $fh_histo, '>', "VennHistogram.png" );
binmode $fh_histo;
print {$fh_histo} $gd_histogram->png;
close($fh_histo);
```

运行结果：





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