



# PokerTracker<sup>TM</sup> 3

## Custom Statistics Guide

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## Overview

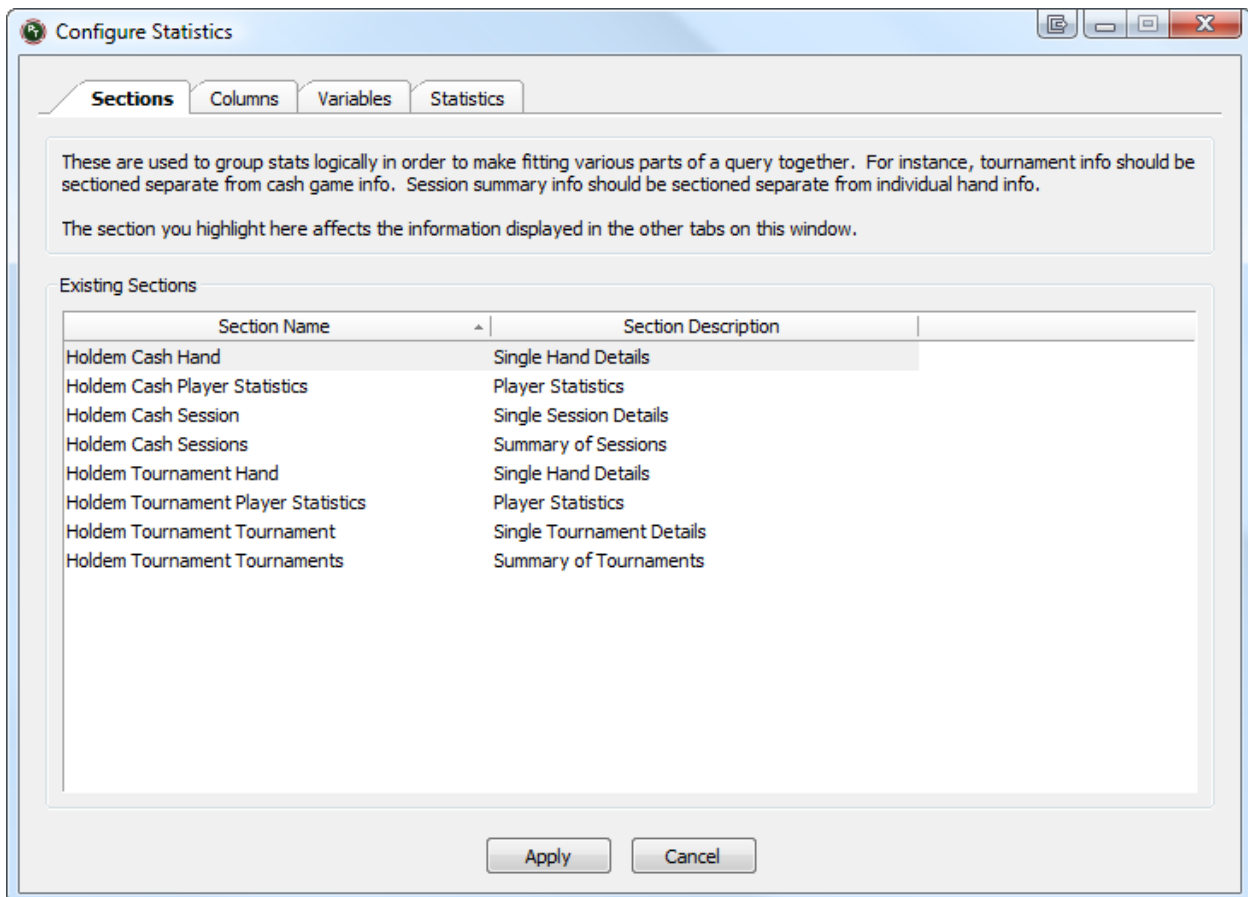
Customized statistics and reports may be the single most powerful tool in PokerTracker 3. You have the ability to create new stats from all of the information stored in your database, create color code statistical ranges for existing or new stats, or format how the stats are displayed. This is an extremely powerful tool so it may seem complicated at first. Read through the entire documentation; play around with creating new custom statistics and it will seem much less overwhelming.

You can customize statistics by selecting “Customize” in the PokerTracker 3 menu then choosing “Configure Stats”.

## Sections

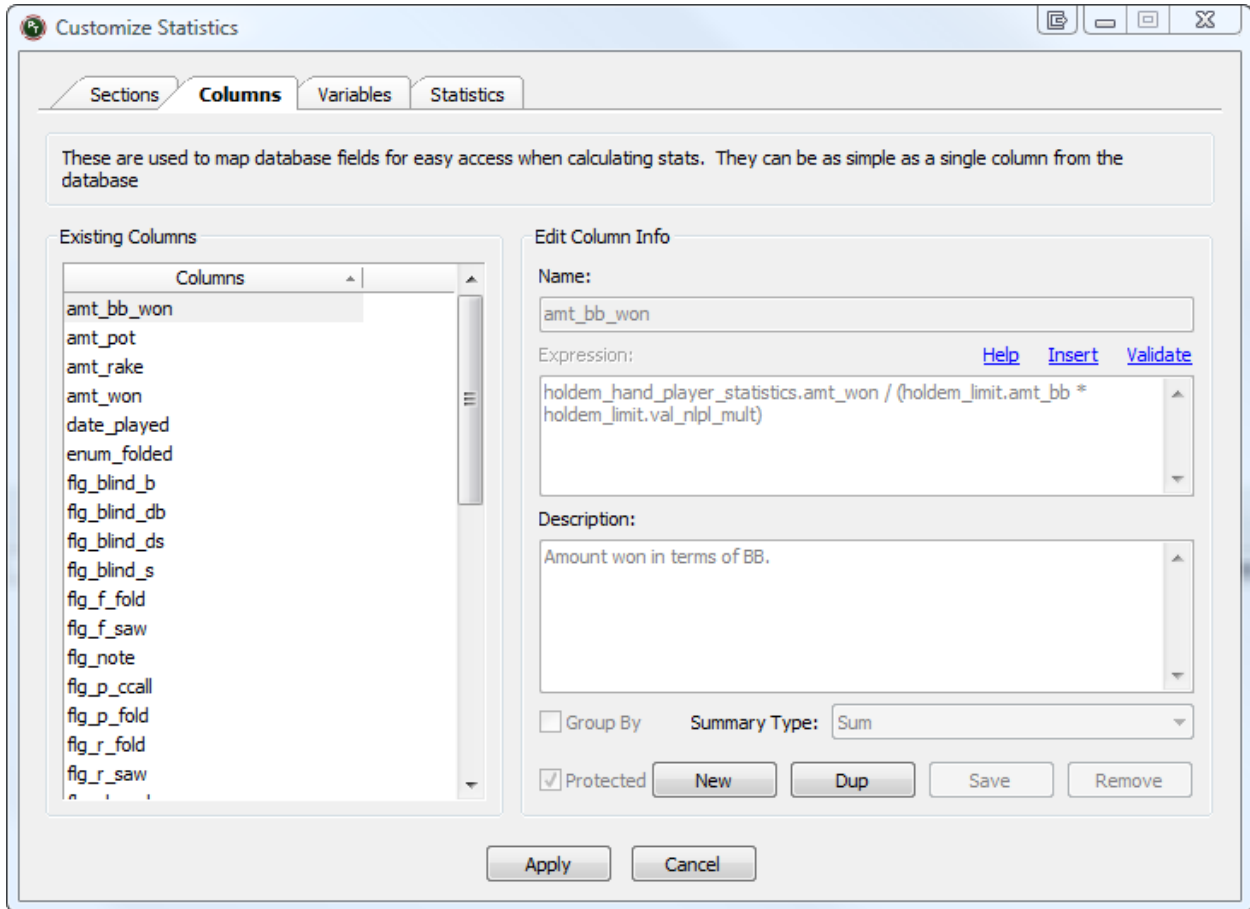
The first step in creating a custom statistic is choosing the section that the stat would be located under. Sections are used to group stats logically. For instance, tournament information is sectioned separately from cash game info. Session summary information is sectioned separately from individual hands. The following sections are available to be selected which will dictate the statistics available to you in creating your custom statistic.

- Holdem Cash Hand – Single Hand Details
- Holdem Cash Player Statistics – Player Statistics
- Holdem Cash Session – Single Session Details
- Holdem Cash Sessions – Summary of Sessions
- Holdem Tournament Hand – Single Tournament Hand Details
- Holdem Tournament Player Statistics – Tournament Player Statistics
- Holdem Tournament Tournament – Single Tournament Details
- Holdem Tournament Tournaments – Summary of Tournaments



## Columns

Columns are used to map database fields for easy access when calculating stats. They can be as simple as a single field from the database or as complex as multiple fields filtered using any criteria. It is highly recommended that you read the [Database Schema - PostgreSQL](#) guide located in the PokerTracker 3 documents section of the website. This guide describes every table and field in the database which will be extremely helpful in understanding the fields and pre-configured columns which are required to create custom statistics.



### Existing Columns

The existing column lists all available columns that are under the section that was selected in the first step along with any new columns that may have been previously customized. Pre configured column info and descriptions are grayed out and are unable to be edited or deleted. You are able to create new columns using available database fields and existing column(s).

## Edit Column Info

There are several input fields under the Edit Column Info box which are used to define a column:

### **Name**

This is the name of the expression. It's best to keep with the established naming convention. Begin the name with a prefix indicating what the value represents (cnt\_ for a count, flg\_ for a boolean, etc). The rest of the name should be lowercase with underscores between words.

### **Expression**

The value of the expression must be valid SQL. This is used to build the SQL statements used to retrieve data. There are some shortcuts available for more complex actions (such as condition statements and date part extraction). Access these shortcuts in the Functions tab of the window after clicking 'Insert'.

### **Insert**

This allows you to easily find and insert database fields, functions or other columns:

#### Database Fields

Lists the database tables and their associated fields they are located under. Selecting a table will populate the field name window with the field name and the type of value of the field.

#### Columns

Lists the currently defined columns in the selected section

#### Functions

Commonly used functions used to calculate statistics. [Appendix A](#) contains a list of all available column functions.

### **Validate**

This allows you to validate that what you have entered in the expression field is valid. The value must be valid or the column cannot be saved.

### **Description**

This is the description of the column.

### **Group By**

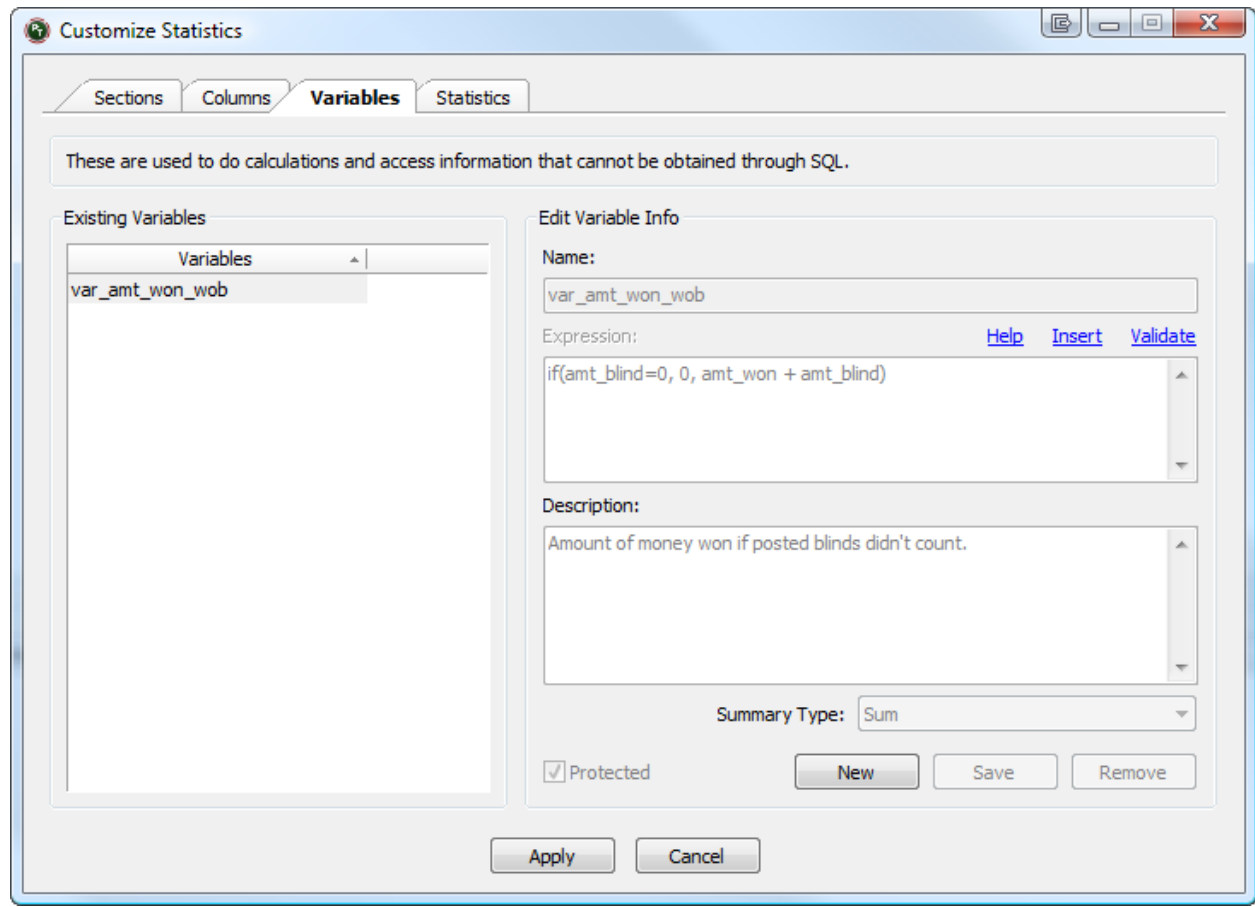
In stat sections that are summaries (using mostly sum()'s and count()'s), this must be checked for any column which is not an aggregate. These columns will then be used in the 'GROUP BY' section of the SQL statement.

### **Summary Type**

This determines the values used for the column when summaries are generated for reports.

## Variables

Variables are used to perform calculations and access information that cannot be obtained directly via database fields or through SQL in the “Columns” tab. The layout and functionality of the variables tab is very similar to the columns tab.



### Existing Variables

The list of currently defined variables that are available to create a customized statistic.

### Edit Variable Info

#### **Name**

This is the name of the variable. It's best to keep with the established naming convention. Begin the name with a prefix indicating what the value represents (cnt\_ for a count, flg\_ for a boolean, etc). The rest of the name should be lowercase with underscores between words.

**Expression**

This is the value of the expression. There are some shortcuts available for more complex actions (such as looking up identifiers, condition statements, etc.). Access these shortcuts in the Functions tab of the window after clicking 'Insert'.

**Insert**

This allows you to easily find and insert columns, functions or other variables:

Columns

The list of currently available columns defined under the columns tab.

Functions

[Appendix A](#) lists all available functions available for variable expressions.

Variables

The list of currently available variables defined in the variables tab.

**Validate**

This allows you to validate that what you have entered in the expression field is valid. The value must be valid or the variable cannot be saved.

**Summary Type**

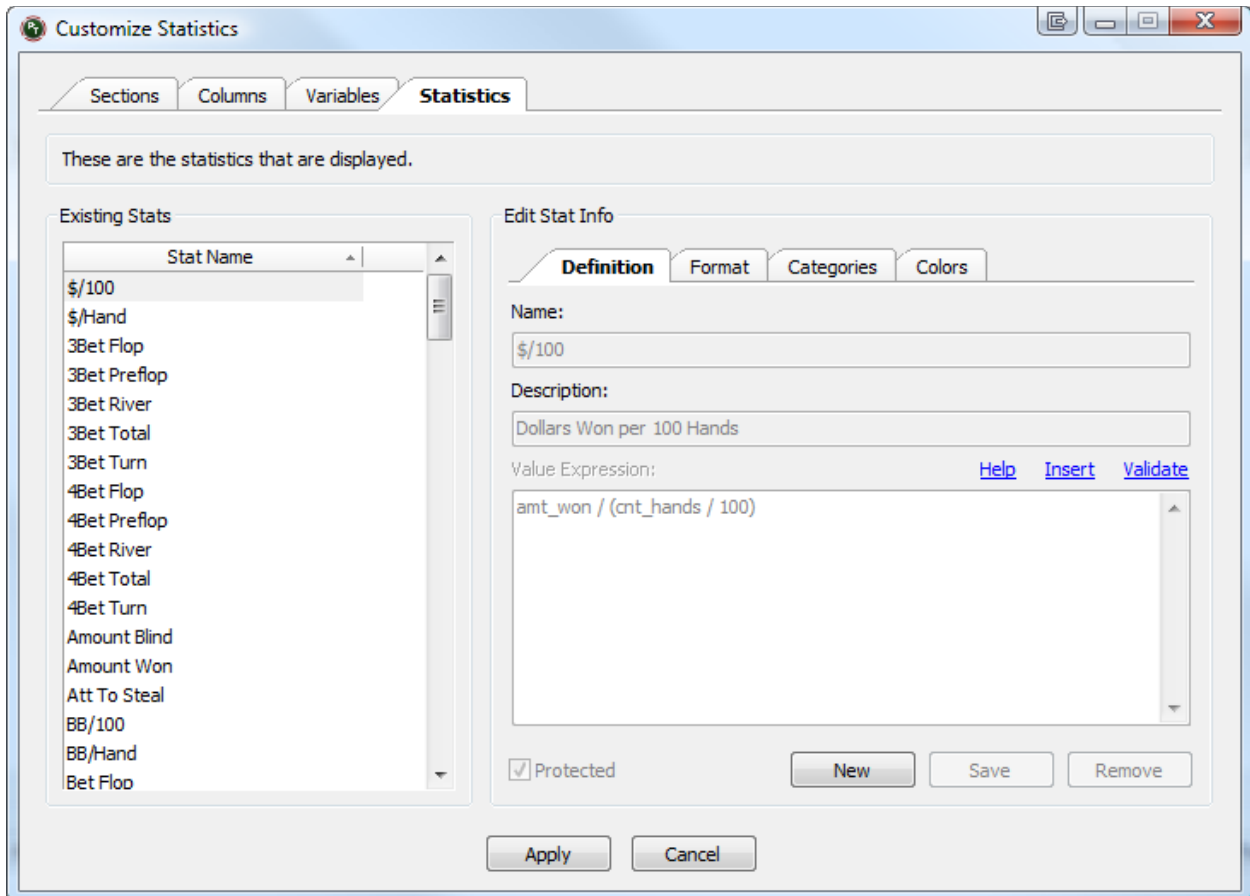
This determines the values used for the variable when summaries are generated for reports.

## Statistics

Now the fun part of creating new statistics using the columns and/or variables defined in the other tabs. You also have the ability to create color coded ranges for existing statistics pre-configured in PokerTracker 3.

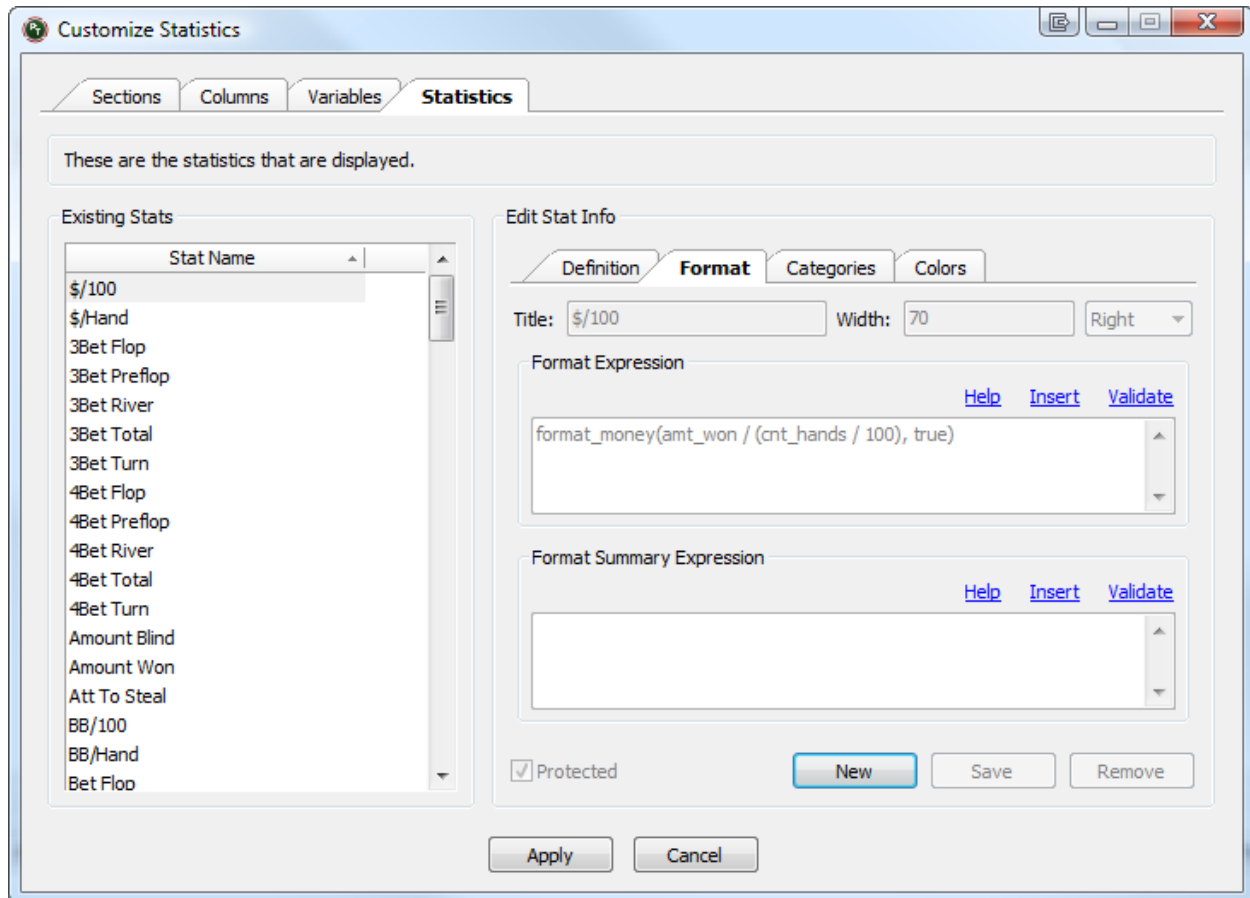
### Definition

This is where you name, describe, and define the custom statistic. In the “Value Expression” field you need to define the stat using existing columns, variables, or functions.



## Format

The format tab is where you will format how the statistic is displayed in PokerTracker 3.



### **Title**

The name of the statistic displayed in the header row of reports.

### **Width**

The default width of the statistical column in the reports

### **Alignment**

How the statistic is aligned in the reports. Right, center, or left align the stat.

### **Format Expression**

The expression used to define the statistic. Format a column into a monetary statistic, retrieve an identifiers textual value, etc. For example, to format a decimal to display only two numbers to the right of the decimal point you would use `%.2f`. The `"%"` represents the numbers displayed to the left of the decimal point. The `".2"` (point two) represents limit the numbers to the right of the decimal point to two. And the `"f"` represents that the number is a decimal floating point.

**Insert**

Choose the columns, variables, and/or functions used to define the format expression.

Columns

Available columns used to define the format expression

Functions

Available functions that can be used to define the format expression. See [Appendix B](#) for a full list of available functions.

Variables

Available variables that can be used to define the format expression

**Validate**

This allows you to validate what you have entered into the format expression field.

The expression must be valid or the statistic cannot be saved.

**Format Summary Expression**

The expression used to define the summary/footer row of the statistic.

**Insert**

Choose the columns, variables, and/or functions used to define the format expression.

Columns

Available columns used to define the format summary row expression

Functions

Available functions that can be used to define the format summary row expression. See [Appendix B](#) for a full list of available functions.

Variables

Available variables that can be used to define the format summary row expression

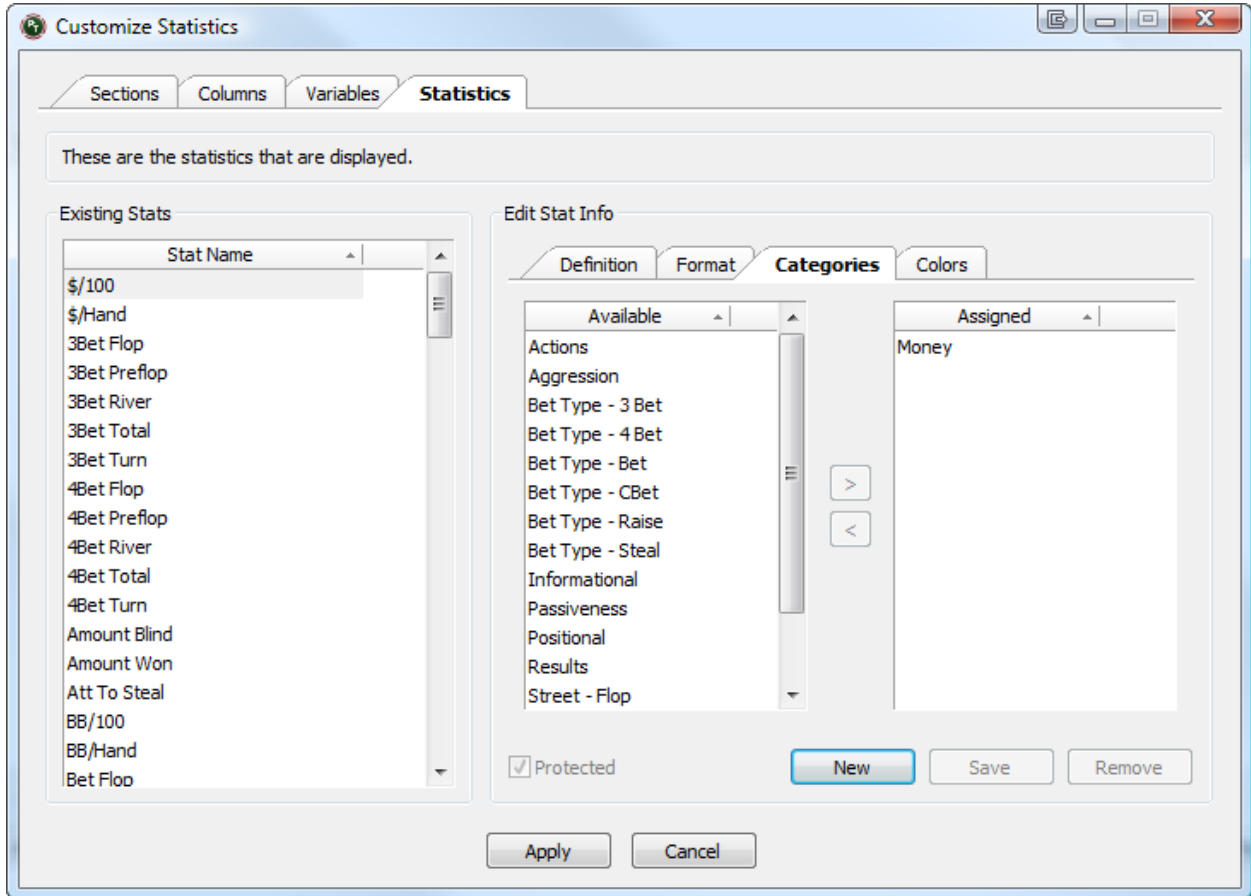
**Validate**

This allows you to validate what you have entered into the format summary expression field.

The expression must be valid or the statistic cannot be saved.

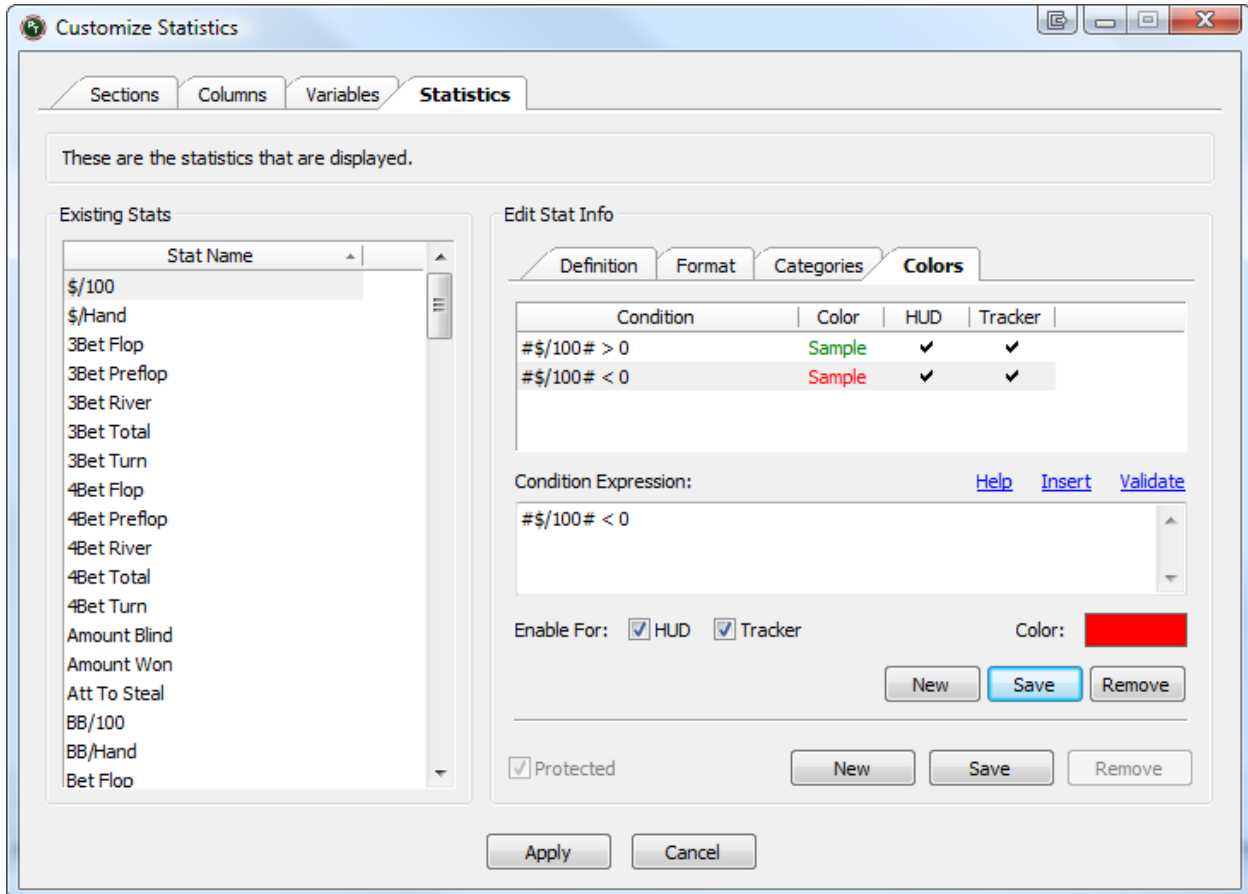
## Categories

The categories tab allows you to choose the category or categories that the statistic will be located under in reports available throughout the PokerTracker application as well as the HUD.



## Colors

The colors tab allows you to define a statistics color, color coded ranges, and where the color coding is applied whether it be in the PT3 HUD or in the tracking application (reports). Existing statistics are displayed on the left side and their color or color coded ranges are listed in the top window.



### **Condition Expression**

The expression used to determine the selected statistics color range. This can be as simple as listing a single statistic and choosing a color or it can be as advanced as having different color coded ranges based on existing columns, variables, functions, or other statistics. The expression must evaluate to a Boolean value using conditional operators.

### **Insert**

Choose the columns, variables, and/or functions used to define the format expression.

### Columns

Available columns used to define the color range expression.

### Functions

Available functions that can be used to define the color range expression.  
See Appendix B for a full list of available functions.

### Variables

Available variables that can be used to define the color range expression.

### Statistics

Available statistics that can be used to define the color range expression.

### Conditional Operators

Available conditional operators used to set a color range. Valid operators are:

- > Greater Than
- >= Greater Than or Equal To
- < Less Than
- <= Less Than or Equal To
- = Equals
- != Does not Equal

### **Validate**

This allows you to validate what you have entered into the color range expression field. The expression must be valid or the range cannot be saved.

### **Enable For:**

HUD – Enable the color range expression for the PT3 HUD

Tracker – Enable the color range expression for the tracking application

### **Color:**

Double click the color to choose the color you would like set for the color range expression.

### Import Statistics

If you have found a custom statistic that you would like to download and import from the [PokerTracker Statistics Repository](#) or a friend would simply like to share a stat they created with you; click the Import button located on the bottom right hand side under the Statistics tab. Browse to the directory where you saved the PT3 statistics file. Select the file then click Open. After the statistic has successfully been imported it will automatically appears in the existing stats window.

### Export Statistics

If you have created a custom statistic that you would like to share with the poker community or a friend; Export the statistic to a file that other users can then import. Select the statistic that you would like to share then click the Export button located at the bottom right hand side of the Statistics tab. Select a directory to save the exported file and click "Save".

We encourage you to share your custom statistics with the poker community by uploading your exported statistics files to the [PokerTracker Repository](#) where other users can then download and import the stats that you have created.

## Appendix A – Column Functions

Name: Average

Expression: avg( expr )

Description: The average value of an integer or numeric value

Name: Convert From UTC

Expression: datefix\_fromutc[ expr ]

Description: Convert the date/time from the UTC timestamp to your local timezone

Name: Count

Expression: count( expr )

Description: Returns the number of selected rows

Name: Extract Date

Expression: dateextract\_date[ expr ]

Description: Extracts the date from a timestamp

Name: Extract Day

Expression: dateextract\_day[ expr ]

Description: Extracts the day of the month from a timestamp

Name: Extract Month

Expression: dateextract\_month[ expr ]

Description: Extracts the month from a timestamp

Name: Extract Year

Expression: dateextract\_year[ expr ]

Description: Extracts the year from a timestamp

Name: If/Then/Else

Expression: if[ exp, a, b]

Description: If expression then “a” else “b”

Name: Max

Expression: max( expr )

Description: Selects the maximum value of a column

Name: Min

Expression: min( expr )

Description: Selects the lowest value of a column

Name: Sum

Expression: sum( expr )

Description: Returns the total sum of a column

## Appendix B – Statistic & Variable Functions

Function Name: Build Date

Expression: `build_date( year, month, day, hour, minute, second)`

Description: Builds a date variable.

Return value: Date

Function Name: Date Diff

Expression: `date_diff( date1, date2, units)`

Description: Determines how long date 1 follows after date 2.

Valid units: 'minutes', 'hours', 'days'

Return Value: Integer

Function Name: Format

Expression: `format( format_str, ... )`

Description: Formats a string, inserting any number of values into the string.  
Use {1}, {2}, {3}, ... to indicate where the value should be inserted.

Return Value: String

Function Name: Format Bool

Expression: `format_bool( value, format )`

Description: Formats a boolean. Valid formats: 'check', 'yesno', 'yn'

Returns: Boolean

Function Name: Format Date

Expression: `format_date( date, format )`

Description: Formats a date. Valid formats: 'date', 'datetime', 'datetimes', 'datetimesm'

Returns: String

Function Name: Format Money

Expression: `format_money( value, color )`

Description: Formats a number into a money format.

Returns: String

Function Name: Format Number

Expression: `format_number( value, decimals, commas, color )`

Description: Formats a number with decimals, commas, and color.

Returns: String

Function Name: If

Expression: `if( expr, then, else )`

Description: Checks the Boolean value of an expression.

Returns: Then or Else depending on whether the expression is true or false

Function Name: Lookup From Id

Expression: lookup\_from\_id( id, lookup )

Description: Finds the value lookup for the given id. Valid lookups: 'blindsbb', 'blindsdesc', 'sitename', 'siteabbr', 'cardpair', 'card', 'card\_rank', 'finalhand', 'month', 'tourneytabletype', 'tourneytype'

Returns: Variable Types

Function Name: Lookup Handrank

Expression: lookup\_handrank( id\_final\_hand, showed, folded )

Description: Finds the name of the final hand, or if the player folded.

Returns: String

Function Name: Lookup Limit BB

Expression: lookup\_limit\_bb( id\_limit )

Description: Finds the value of the BB for the limit.

Returns: Number

Function Name: Lookup Limit Desc

Expression: lookup\_limit\_desc( id\_limit, info )

Description: Finds the description of the id\_limit.

Returns: String

Function Name: Lookup Limit Info

Expression: lookup\_limit\_info( id\_limit, info )

Description: Finds information about the limit. Valid info values: 'bb', 'sb', 'desc', 'nl', 'pl', 'sortval'

Returns: Variable Type

Function Name: Lookup\_Realminutes\_Day

Expression: lookup\_realminutes\_day( id\_player, day, month, year )

Description: Finds the actual minutes played for the given player in the given day/month/year.

Returns: Number

Function Name: Lookup Realminutes Limit

Expression: lookup\_realminutes\_limit( id\_player, id\_limit )

Description: Finds the actual minutes played for the given player at the given limit.

Returns: Number

Function Name: Lookup Realminutes Month

Expression: lookup\_realminutes\_month( id\_player, month, year )  
Description: Finds the actual minutes played for the given player in the given month/year.  
Returns: Number

Function Name: Lookup realminutes Player  
Expression: lookup\_realminutes\_player( id\_player )  
Description: Finds the actual minutes played for the given player.  
Returns: Number

Function Name: Max  
Expression: max( a, b )  
Description: Finds the maximum of the two values a or b.  
Returns: Maximum Value

Function Name: Min  
Expression: min( a, b )  
Description: Finds the minimum of the two values a or b.  
Returns: Minimum Value

## **PokerTracker™ Help & Support**

There are numerous help documents and tutorials to assist you in configuring and using PokerTracker. If you cannot find the answer you need via these resources, please search the forums. If your question or problem is not addressed you should then contact support using the PokerTracker Support system.

### *PokerTracker 3 - Tutorials & Help Documentation*

<http://www.pokertracker.com/products/PT3/docs/>

### *PokerTracker Forums*

<http://www.pokertracker.com/forums/>

### *PokerTracker Support system*

<https://www.pokertracker.com/support/>

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