

# Temple IRC Infobot User's Manual

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# Chapter 1

## Users' Quick-Start Guide

### 1.1 Introduction

#### 1.1.1 What is Temple?

Temple is an IRC infobot. It stores pieces of information { 'calcs' } for retrieval at a later time. Calcs can be added, deleted and modified at any time, via commands given over the IRC network.

This manual assumes that you have access to a Temple bot. If you're unsure whether you have access, or you have any problems with the commands described here, contact the bot's administrator.

Temple accepts commands via both IRC channels and private messages. If you query it in the channel, it will reply in the channel, and likewise for messages.

#### 1.1.2 The calc command

The most basic Temple command is `calc`, which is used to retrieve a previously stored calc. Its use is pretty trivial:

```
calc factoid
```

`factoid` represents the name given to the calc { its label. Try the command `calc test` { Temple should reply with something along the lines of

```
[test] test
```

If it says

```
No entry for "test".
```

don't worry, it just means that a calc with that name doesn't exist right now.

### 1.1.3 Creating and deleting calcs: the `mkcalc` and `rmcalc` commands

The `mkcalc` command is used to create a new calc. Its syntax is again very simple:

```
mkcalc name = value
```

The `name` is the calc's label { the word used with the `calc` command to retrieve its text. For example, to create the calc 'test' as seen in the last section, we would use the command:

```
mkcalc test = test
```

After receiving this command, Temple will respond with a message similar to:

```
"test" added.
```

The opposite of the `mkcalc` command { `rmcalc` { is used to delete calcs. Its syntax, if you haven't guessed already, is:

```
rmcalc name
```

Where `name` is the name of the calc to delete.

### 1.1.4 Owners and Rights

Now would be a good time to discuss a non-command feature—owners of calcs. Every calc stored in Temple has, among other things, two pieces of information associated with it { its creator and its owner. When a calc is created, both of these are set to the person who created the calc. The owner of a calc is the only person (other than Admins) who can modify or delete that calc { e.g., use the `rmcalc` command on it. It is possible for a calc's owner to change over time, but the creator remains constant until the calc is deleted.

You can find out these values using the `owner` command; for example:

```
owner test
```

Temple will then reply with something like:

```
"test" is owned by larne, and was created by larne.
```

### 1.1.5 Searching the database: the `apropos` and `apropos2` commands

After using Temple for a while, you might find that you can't remember the name of a calc, but you know part of it, or what text is stored in it. With

these two commands, you can search the calc database by name or value. The `apropos` command is used to search by name; its syntax is:

```
apropos search-term
```

Where `search-term` is the text to search for. For example, if we couldn't remember how to spell "test", but knew it began with "te", we might use the command:

```
apropos te
```

Temple would then reply with something like:

```
1 match(s) for "te": "test".
```

The `apropos2` command is identical, except that it searches the value of the calc { that is, the text associated with it.

### 1.1.6 Other commands

The commands discussed so far should be enough to get started using Temple. If you want to know more, refer to chapter 3 (Command Reference Manual); it contains complete descriptions of every command available in Temple. Particularly useful commands included `sedcalc`, `owncalc`, `tell`, and `lncalc`.





## Chapter 2

# Installation and administration manual



## Chapter 3

# Command Reference Manual

### 3.1 User-level commands

#### 3.1.1 calc

Usage: calc name

Description : The calc command retrieves and displays the calc specified by name .

Diagnostics :

{ No entry for " name ".  
The specified calc does not exist.

#### 3.1.2 mkcalc

Usage: mkcalc[/replace][/override][/owner=...] name = value

Description : The mkcalc command adds a new calc with the name name and the value value to the database.

Qualifiers :

{ /replace  
If the calc name already exists, replace it with the new value instead of reporting an error.

{ /override  
If the /replace qualifier was given, and you do not own the calc but you possess the admin privilege, this qualifier allows you to bypass the ownership check.

{ /owner= user  
The newly created calc will be owned by user .

Diagnostics :

- { "name" already exists.  
A calc with the specified name already exists in the database, and /replace was not given.
- { You don't own "name".  
The /replace qualifier was given, but you don't own the existing calc of that name, and /override was not specified.
- { You don't own "name", and /override was not honoured because you do not have admin rights.  
The /replace and /override qualifiers were both supplied, but you do not own the calc, and you do not possess the admin privilege.

### 3.1.3 rmcac

Usage: rmcac [/override] name

Description : The rmcac command removes the specified calc from the database. Only the owner of a calc and users with the admin right may remove it.

Qualifiers :

- { /override  
If you do not own the calc being removed, but you possess the admin right, this qualifier bypasses the ownership check.

Diagnostics :

- { No entry for "name".  
The specified calc does not exist in the database.
- { You don't own "name".  
You do not own the calc being removed, and the /override qualifier was not specified.
- { You don't own "name", and the /override qualifier was not honoured because you do not have admin rights.  
You do not own the calc being removed, and the /override qualifier was specified, but you do not possess the admin privilege.

### 3.1.4 sedcalc

Usage: sedcalc [/override] s/old/new/ calc-name

Description : The sedcalc command allows the text of a calc to be changed without removing and recreating it, using regular expressions. The calc calc-name will be searched for the regexp old, and any matches found will be replaced with the text new.

Only the owner of a calc or users with the admin right may modify a calc in this way.

Example : sedcalc s/test/just testing/ test

Would change the text "test" in the calc "test" to read "just testing".

Qualifiers :

- { /override  
If you do not own the calc being modified, but you possess the `admin` right, this qualifier bypasses the ownership check.

Diagnostics :

- { No entry for " calc-name ".  
The specified calc does not exist in the database.
- { You don't own " calc-name ".  
You do not own the calc being removed, and the `/override` qualifier was not specified.
- { You don't own " calc-name ", and the `/override` qualifier was not honoured because you do not have admin rights.  
You do not own the calc being removed, and the `/override` qualifier was specified, but you do not possess the `admin` privilege.
- { An error occurred updating " calc-name ".  
An unknown error occurred while changing the calc. Check that the format of the command regular expression is correct.

### 3.1.5 appcalc

Usage: `appcalc [/override][/nospace] calc-name = new-text`

Description : The `appcalc` command appends the text `new-text` onto the end of the current value of the calc `calc-name`. The new text will be preceded by a single space character, unless `/nospace` was specified.

Only the owner of a calc or users with the `admin` right may modify a calc in this way.

Qualifiers :

- { /nospace  
Do not separate the existing and new text with a space character.
- { /override  
If you do not own the calc being modified, but you possess the `admin` right, this qualifier bypasses the ownership check.

Diagnostics :

- { No entry for " calc-name ".  
The specified calc does not exist in the database.
- { You don't own " calc-name ".  
You do not own the calc being removed, and the `/override` qualifier was not specified.
- { You don't own " calc-name ", and the `/override` qualifier was not honoured because you do not have admin rights.  
You do not own the calc being removed, and the `/override` qualifier was specified, but you do not possess the `admin` privilege.

### 3.1.6 Incalc

Usage: Incalc new-name = existing-calc

Description : The Incalc command adds an alias for an existing calc. The calc can then be recalled (e.g. with thecalc command) via either name.

All commands except rmcalt have identical behaviour when used on an alias. If rmcalt is used on an alias, only the alias is removed; if it is used on the original calc, both that calc and all aliases pointing to it are removed.

Diagnostics :

- { No entry for " existing-calc ".  
The specified calc does not exist in the database.
- { "new-name " already exists.  
There is already a calc by the name ofnew-name in the database.

### 3.1.7 apropos

Usage: apropos search-term

Description : The aproposcommand searches the calc database for calcs whose name contains the stringsearch-term . A wildcard '\*' character will match any text.

### 3.1.8 apropos2

Usage: apropos2 search-term

Description : The aproposcommand searches the calc database for calcs whose value contains the stringsearch-term . A wildcard '\*' character will match any text.

### 3.1.9 ctell

Usage: ctell user about calc

Description : The ctell command is identical to the calc command, except that the output is preceded by "user:". The string " about" is only a placeholder, and may be replaced with any text.

### 3.1.10 tell

Usage: tell user about calc

Description : The tell command is identical to the calc command, except that the output is sent to user instead of the channel. The string "about" is only a placeholder, and may be replaced with any text. User may be a channel name.

### 3.1.11 owner

Usage: owner calc-name

Description : The owner command shows the owner and creator of the calc calc-name .

Diagnostics :

```
{ No entry for " calc-name ".  
  The speci ed calc does not exist in the database.
```

### 3.1.12 owncalc

Usage: owncalc user-name

Description : The owncalc command lists all calcs which are owned by the user user-name .

## 3.2 Admin-level commands

### 3.2.1 chown

Usage: chown calc-name new-owner

Description : The chown command changes the owner of the calc calc-name to be new-owner . The calc's creator is unchanged.

Diagnostics :

```
{ No entry for " existing-calc ".  
  The speci ed calc does not exist in the database.  
  
{ Syntax error.  
  The format of the command was incorrect.
```

### 3.2.2 adduser

Usage: adduser user-name

Description : The adduser command adds a new user with the name user-name to the user database. The new user is created with no hosts and no rights.

Diagnostics :

```
{ User "user-name " already exists in the database.  
  The speci ed user already exists.
```

### 3.2.3 deluser

Usage: deluser user-name

Description : The deluser command removes an existing user from the user database. Any calcs owned by the user are not deleted.

Diagnostics :

```
{ No such user "user-name ".  
  The speci ed user does not exist.
```



## Chapter 4

# Module programming interface

### 4.1 Overview

TODO

### 4.2 The Temple Public Interface (TPI)

The TPI is the lowest-level C interface to the Temple plug-in architecture. It provides a series of functions to manipulate data (such as calcs) and to handle events.

#### 4.2.1 SQL Interface

---

`tpi_sql_register_interface`

Prototype:

```
int    tpi_sql_register_interface (
        char const *      interface_name,      [in]
        char const *      interface_description, [in]
        tpi_sql_fn_connect connect_fn,        [in]
        tpi_sql_fn_disconnect disconnect_fn,   [in]
        tpi_sql_fn_query   query_fn,          [in]
        tpi_sql_fn_cmd     cmd_fn,            [in]
        tpi_sql_fn_commit  commit_fn,        [in]
        tpi_sql_fn_rollback rollback_fn,     [in]
        tpi_sql_fn_err     err_fn,           [in]
    );
```

Preconditions: interface `_name` and interface `_description` point to NUL-terminated arrays of `char`. All other functions point to functions of the required type.

Postconditions: None

Side effects: A new SQL interface is registered with the database subsystem.

Return values:

- { 1: Successful completion.
- { 0: An error occurred and the new interface was not registered.

### 4.2.2 DCO Interface

A DCO represents an object in Temple's database, such as a user or a calc. Every DCO has a type, such as "user" or "calc", a name, such as "larne", and a series of attribute /value pairs.

The basic type for dealing with DCO objects with TPI is the `tpi_dco_ctx`, an opaque type representing a handle to a single DCO object. To obtain a handle to a new DCO object, call `tpi_dco_new()`; when the object is finished with, destroy it with `tpi_dco_delete()`. Attributes of DCOs may be retrieved with the `tpi_dco_get_attr()` function.

#### Example

```
/* Retrieve and print the "text" attribute of the "calc" DCO "test". */
tpi_dco_ctx c;
char *text;

if (tpi_dco_new(&c, "calc", "test") == 0)
return 1; /* error */

if (tpi_dco_get_attr(c, "text", &text) == 0) {
tpi_dco_delete(c);
return 1; /* error */
}

print("text is [%s]\n", text);
free(text);
tpi_dco_delete(c);
```

---

#### `tpi_dco_new`

Prototype :

```

int  tpi_dco_new (
        tpi_dco_ctx * ctx,  [out]
        char const * type,  [in]
        char const * name  [in]
);

```

Preconditions : `type` and `name` point to NUL-terminated arrays of `char` .

Postconditions : `ctx` is initialised to point to a new DCO object, with name as `type` as described by `name` and `type` .

Side effects : None.

Return values :

- { 1: Successful completion.
- { 0: An error occurred. The contents of `ctx` are indeterminate.

Notes: The value stored in `ctx` must be destroyed when it is no longer required by a call to `tpi_dco_delete` .

### `tpi_dco_delete`

Prototype :

```

int  tpi_dco_delete (
        tpi_dco_ctx  ctx,  [in]
);

```

Preconditions: `ctx` points to a valid DCO object.

Postconditions: The DCO object is destroyed and any associated resources are freed. The DCO data is not removed from the database.

Side effects: None.

Return values:

- { 1: Successful completion.

### `tpi_dco_exists`

Prototype :

```
int tpi_dco_exists (
    tpi_dco_ctx ctx [in]
);
```

Preconditions: ctx points to a valid DCO object.

Postconditions: None.

Side effects: None.

Return values:

- { 0: The DCO object does not exist in the database.
  - { 1: The DCO object does exist in the database.
- 

### tpi\_dco\_create

Prototype:

```
int tpi_dco_create (
    tpi_dco_ctx ctx [in]
);
```

Preconditions: ctx is a valid DCO object.

Postconditions: None.

Side effects: The DCO object described by ctx is created in the database.

Return values:

- { 1: Successful completion.
  - { 0: An error occurred. The DCO object was not created.
- 

### tpi\_dco\_has\_attr

Prototype:

```
int tpi_dco_has_attr (
    tpi_dco_ctx ctx, [in]
    char const * attr [in]
);
```

Preconditions: `ctx` is a valid DCO object. `attr` points to a NUL-terminated array of `char`.

Postconditions: None.

Side effects: None.

Return values:

- { 1: The DCO object `ctx` contains the attribute with the name specified by `attr`.
  - { 0: The DCO object does not contain this attribute.
- 

### `tpi_dco_get_attr`

Prototype :

```
int tpi_dco_get_attr (
    tpi_dco_ctx ctx,           [in]
    char const * attr_name,   [in]
    char ** attr_value        [out]
);
```

Preconditions: `ctx` is a valid DCO object. `attr_name` points to a NUL-terminated array of `char`.

Postconditions: `attr_value` is initialised to point to a NUL-terminated array of `char` which contains the value of the `attr_name` attribute.

Side effects: None.

Return values:

- { 1: Successful completion.
- { 0: An error occurred. The contents of `attr_value` are indeterminate.

Notes: The pointer stored in `attr_value` must be freed by a call to `free()` when it is no longer required.

---

### `tpi_dco_set_attr`

Prototype :

```
int tpi_dco_set_attr (
    tpi_dco_ctx ctx,          [in]
    char const * attr_name,  [in]
    char const * new_value   [in]
);
```

Preconditions: `ctx` is a valid DCO object which exists in the database. `attr_name` and `new_value` point to NUL-terminated arrays of `char`.

Postconditions: None.

Side effects: The value of the attribute `attr_name` of the DCO object `ctx` is changed to `new_value`. If this attribute does not exist, it is created.

Return values:

- { 1: Successful completion.
  - { 0: An error occurred. The value of the attribute was not changed.
- 

### `tpi_dco_del_attr`

Prototype :

```
int tpi_dco_del_attr (
    tpi_dco_ctx ctx,          [in]
    char const * attr_name   [in]
);
```

Preconditions: `ctx` is a valid DCO object. `attr_name` is a pointer to a NUL-terminated array of `char`.

Postconditions: None.

Side effects: The attribute `attr_name` is removed from the DCO object `ctx`.

Return values:

- { 1: Successful completion.
  - { 0: An error occurred. The attribute was not removed.
-

**tpi\_dco\_name**

Prototype :

```
char const *tpi_dco_name (
    tpi_dco_ctx ctx [in]
);
```

Preconditions: ctx is a valid DCO object.

Postconditions: None.

Side effects: None.

Return values: A pointer to NUL-terminated array of char is returned, which contains the name of the DCO object ctx .

**tpi\_dco\_nd\_by\_key**

Prototype :

```
int tpi_dco_nd_by_key (
    char const * type, [in]
    char const * pattern, [in]
    tpi_dco_ctx [out] * [out] * results,
    int * nmatches [out]
);
```

Preconditions: type and pattern point to NUL-terminated arrays of char .

Postconditions: results points to an array of tpi\_dco\_ctx s of type type whose name matches the pattern pattern . nmatches contains the number of objects in the array.

Side effects: None.

Return values:

- { 1: Successful completion.
- { 0: An error occurred. The contents of results and nmatches are indeterminate.

Notes: Every element of the array results must be freed by a call to tpi\_dco\_delete() when it is no longer required. The array itself must be freed by a call to free() .

`tpi_dco_nd_by_attr`

Prototype :

```

int tpi_dco_nd_by_attr (
    char const *      type,      [in]
    char const *      attr,     [in]
    char const *      pattern,  [in]
    tpi_dco_ctx [out] * [out] * results,
    int *nmatches     [out]
);

```

Preconditions: `type` is a pointer to a NUL-terminated array of `char` .

Postconditions: `nobjs` contains the number of DCO objects in the database of `type` .

Side effects: None.

Return values:

- { 1: Successful completion.
- { 0: An error occurred. The contents of `nobjs` is indeterminate.

`tpi_dco_get_error`

Prototype :

```

char const *tpi_get_get_error (
    tpi_dco_ctx ctx [in]
);

```

Preconditions: `ctx` is a valid DCO object.

Postconditions: None.

Side effects: None.

Return values: A pointer to a NUL-terminated array of `char` describing the last error condition related to the DCO object `ctx` , or `NULL` if no error condition has occurred.



### 4.2.3 Server connection functions

---

`tpi_serv_reply_any`

Prototype :

```
int tpi_serv_reply_any (
    tpi_serv_reply_ctx repl_ctx, [in]
    char const * message [in]
    ... [in]
);
```

Preconditions: `repl_ctx` is a valid server reply context. `message` points to a NUL-terminated array of `char`. The optional extra arguments list contains any number of pointers to NUL-terminated arrays of `char`, terminated with a NULL pointer.

Postconditions: None.

Side effects: The string `message` is looked up in the message catalogue. Its arguments are replaced sequentially by the optional arguments. The resulting text is then sent to the user. If the the reply context indicates the the original message was received as a public channel message, the reply is sent in the channel, prefixed by the nickname of the user; if the command was received via a private message, the message is sent via a private message.

Return values:

- { 1: Successful completion.
  - { 0: An error occurred. The message was not delivered.
- 

`tpi_serv_reply_private`

Prototype :

```
int tpi_serv_reply_private (
    tpi_serv_repl_ctx repl_ctx, [in]
    char const * message [in]
    ... [in]
);
```

---

`tpi_serv_send_message`

Prototype :

```
int tpi_serv_send_message(
    tpi_serv_ctx ctx,           [in]
    char const * target,       [in]
    char const * message       [in]
    ...
);
```

Preconditions: `ctx` is a valid server context. `target` and `message` are pointers to nul-terminated arrays of char. The optional extra arguments are pointers to nul-terminated arrays of char, terminated by a NULL pointer.

Postconditions: None.

Side effects: The message is looked up in the message catalogue. Its arguments are replaced sequentially by the optional arguments. The resulting text is then sent to `target`, which may be a nickname or a channel name.

Return values:

- { 1: Successful completion.
- { 0: An error occurred. The message was not delivered.

`tpi_serv_repl_from_nick`

Prototype :

```
char const *tpi_serv_repl_from_nick (
    tpi_serv_reply_ctx repl_ctx [in]
);
```

`tpi_serv_repl_new`

Prototype :

```

int tpi_serv_repl_new (
    tpi_serv_repl_ctx * ctx,      [out]
    tpi_serv_ctx      serv_ctx   [in]
);

```

Preconditions: `serv_ctx` is a valid server context.

Postconditions: `ctx` contains a new reply context associated with the server `serv_ctx`.

Side effects: None.

Return values:

- { 1: Successful completion.
- { 0: An error occurred. The contents of `ctx` are indeterminate.

Notes: The reply context must be destroyed via a call to `tpi_serv_repl_delete()` when it is no longer required.

---

`tpi_serv_set_from_nick`

Prototype :

```

int tpi_serv_repl_set_from_nick (
    tpi_serv_repl_ctx repl_ctx, [in]
    char const *nick           [in]
);

```

Preconditions: `repl_ctx` is a valid reply context. `nick` is a pointer to nul-terminated array of `char`.

Postconditions: None.

Side effects: The nickname associated with the reply context `repl_ctx` is changed to `nick`.

Return values:

- { 1: Successful completion.
  - { 0: An error occurred. The nickname associated with the reply context was not changed.
-

`tpi_serv_set_target`

Prototype :

```
int tpi_serv_repl_set_target (
    tpi_serv_repl_ctx repl_ctx, [in]
    char const * target [in]
);
```

Preconditions: `repl_ctx` is a valid reply context. `target` is a pointer to a nul-terminated array of characters.

Postconditions: None.

Side effects: The target associated with the reply context `repl_ctx` is changed to `target`.

Return values:

- { 1: Successful completion.
  - { 0: An error occurred. The target associated with the context was not changed.
- 

`tpi_serv_repl_set_private`

Prototype :

```
int tpi_serv_repl_set_private (
    tpi_serv_repl_ctx repl_ctx, [in]
    int priv [in]
);
```

Preconditions: `repl_ctx` is a valid server reply context. `priv` is an integer of value 0 or 1.

Postconditions: None.

Side effects: If `priv` is 0, the reply context is changed to a non-private (public channel) reply context. If `priv` is 1, the reply context is changed to a private context.

Return values:

- { 1: Successful completion.
  - { 0: An error occurred. The reply context was not changed.
-

`tpi_serv_join_channel`

Prototype :

```
int tpi_serv_join_channel (
    tpi_serv_ctx ctx, [in]
    char const * channel [in]
);
```

Preconditions: `ctx` is a valid server context. `channel` is a pointer to a nul-terminated array of `char`.

Postconditions: None.

Side effects: A JOIN command for the channel specified in `channel` is sent to the server `ctx`. The channel may not actually be joined if the server rejects the JOIN command.

Return values:

{ 1: Successful completion.  
{ 0: An error occurred. The JOIN channel was not sent to the server.

---

`tpi_serv_send_raw`

Prototype :

```
int tpi_serv_send_raw (
    tpi_serv_ctx ctx, [in]
    char const * text [in]
);
```

`tpi_serv_add_user_to_channel`

Prototype :

```
int tpi_serv_add_user_to_channel (
    tpi_serv_ctx ctx, [in]
    char const * user, [in]
    char const * channel [in]
);
```

---

tpi \_serv \_signo \_user

Prototype :

```
int tpi _serv _signo _user (  
    tpi _serv _ctx ctx, [in]  
    char const * user [in]  
);
```

#### 4.2.4 Event functions

---

tpi \_event \_install \_handler

Prototype :

```
void tpi _event _install _handler (  
    char const * event, [in]  
    tpi _event _callback _fn fb [in]  
);
```

tpi \_event \_raise

Prototype :

```
void tpi _event _raise (  
    char const * event, [in]  
    char const * data [in]  
);
```

#### 4.2.5 User functions

---

tpi \_user \_has \_priv

Prototype :

```
int tpi _user _has _priv (  
    tpi _user _ctx user, [in]  
    char const * priv [in]  
);
```

---

tpi\_user\_name

Prototype :

```
char const * tpi_user_name (  
    tpi_user_ctx user [in]  
);
```

---

tpi\_user\_nd

Prototype :

```
int tpi_user_nd (  
    tpi_user_ctx * user, [out]  
    char const * username [in]  
);
```

---

tpi\_user\_nd\_by\_host

Prototype :

```
int tpi_user_nd_by_host (  
    tpi_user_ctx * user, [out]  
    char const * hostname [in]  
);
```

---

tpi\_user\_delete

Prototype :

```
int tpi_user_delete (  
    tpi_user_ctx user [in]  
);
```

### 4.2.6 Configuration functions

---

`tpi_conf_get_list`

Prototype :

```
int tpi_conf_get_list (
    char const * value, [in]
    char [out] * [out] * [out] * result,
    int * nresults [out]
);
```

### 4.2.7 Miscellaneous functions

---

`tpi_log_message`

Prototype :

```
int tpi_log_message(
    char const *category, [in]
    char const *severity, [in]
    char const *message[in]
);
```