

A4M35OSP

Open source programming

Small fixes in image viewer Mcomix.

2013.03.14

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Mcomix

<http://sourceforge.net/p/mcomix/wiki/Home/>

Summary

MComix is an user-friendly, customizable image viewer.

It is specifically designed to handle comic books, but also serves as a generic viewer.

It reads images in ZIP, RAR, 7Zip, LHA or tar/gz/bz2 archives as well as plain image files.

MComix is a fork of the Comix project, and aims to add bug fixes and stability improvements after Comix development came to a halt in late 2009.

Sources:

Main: <svn://svn.code.sf.net/p/mcomix/code/>

Github mirror: <https://github.com/Oddegamra/mcomix>

Bugtracker:

http://sourceforge.net/p/mcomix/_list/tickets - main communication place

Bug #39: Double page mode:

Optionally compute shrink ratio separately. Currently mcomix will shrink both pages by [or to] the same percentage as the larger one. So in case when two consequential images have different size, one of them zoomed to wrong size.

Solution steps:

- Scale two images to the same height
- Find aspect ratio of two combined image → find virtual rectangle to place both images
- Scale virtual rectangle to visible area to get *scaled height*
- Scale both images limiting only *scaled height*

SHERLOCK HOLMES
SHERLOCK HOLMES in the
HOLMES FINAL
HOLMES CURTAIN

THESE WILL BE A SHORT DELAY, LADIES AND GENTLEMEN, SINCE CARINI IS INDISPENSIBLE.

YOU HAVE TO WAIT TO HEAR YOUR GREAT CARINI, MR. HOLMES! MAYBE I'LL BE CALLED OFF A LITTLE LATER.

DON'T BE OPTIMISTIC, SERGEANT! I'M SORRY YOU DON'T LIKE FIDDLELS AS YOU CALL THEM, BUT AS MY ESCORT, YOU'LL HAVE TO LIKE THIS ONE.

LAST PERFORMANCE THE GREAT Carini

I BUY THE VIOLIN AS A HOBBY, SO TO SPEAK--AND I ASSURE YOU THAT CARINI IS ONE OF THE GREATEST WHO EVER PLAYED!

AREN'T YOU, SERGEANT FLAHERTY'S COME BACKSTAGE PLEASE? THERE'S SOMETHING I WOULD LIKE TO SAY WITH SENIOR CARINI?

NO PROBLEM AFTER ALL, COME ON! MR. HOLMES IS SUPPOSED TO STAY WITH YOU, THE LIEUTENANT SAID.

WOULDN'T YOUSELF, SHERLOCK HOLMES LOOKED FORWARD TO HEARING THE GREAT CARINI IN HER LAST PERFORMANCE... BUT THE MAESTRO'S VERY DELAY PROVED TO BE THE WEAPON THAT BANG DOWN THE CURTAIN, EVEN BEFORE THE RENOWNED VIOLINIST TOOK THE STAGE...

SHERLOCK HOLMES

A DOCTOR AND AMBULANCE ARE ON THE WAY, SERGEANT! IS THE GENTLEMAN WITH YOU IN THE POLICE DEPARTMENT?

I WISH HE WAS! THIS IS SHERLOCK HOLMES, THE GREAT ENGLISH DETECTIVE!

THANK YOU, FLAHERTY! NOW, LET US LOOK AT CARINI!

HE'S DEAD, I THINK! OBVIOUSLY A SUICIDE! SEEMED TO HAVE USED GAS!

CURIOUS...IT SMELLS FAMILIAR...

WHATEVER HE USED, IT SMELLS BAD!

THIS SEEMS TO HAVE CONTAINED THE SUBSTANCE THAT CAUSED CARINI'S DEATH...A VERY THIN GLASS VIAL!

SEEMS TO BE SOME FORM OF CYANIDE GAS! IT'S WELL DISSIPATED SINCE THE ROOM HAS BEEN OPENED!

DISSIPATED OR NOT, GET YOUR NOSE AWAY FROM THAT, I'D BE POUNDING A BEAT IF ANYTHING HAPPENED TO YOU!

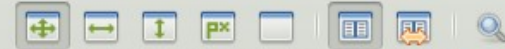
DON'T PLAY DETECTIVE ON THIS CASE! CARINI TOOK HIS OWN LIFE, HOLMES!

WHY ARE YOU SO CERTAIN?

WHAT ELSE COULD IT BE? THERE ARE NO WINDOWS AND CARINI HAD THE DOOR LOCKED FROM THE INSIDE! THE KEY IS STILL IN THE LOCK!

I STILL THINK IT WAS MURDER, SERGEANT!

```
84 def get_double_page_rectangle(width_1, height_1, width_2, height_2):
85     h1 = float(height_1)
86     w1 = float(width_1)
87     h2 = float(height_2)
88     w2 = float(width_2)
89     target_tan = h2 * h1 / (w1*h2 + h1*w2)
90
91     height = max(height_1, height_2)
92     width = int(math.floor(height / target_tan)) + 2 # 2px between pages
93
94     return width, height
```



SHERLOCK HOLMES

SHERLOCK HOLMES

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FINAL
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NO FOOLER AFTER ALL! COME ON! MR. HOLMES, I'M DEPRESSED TO STAY WITH YOU, THE LIEUTENANT SAID!

YOUNGST WISELY, SHERLOCK HOLMES LOOKED FORWARD TO HEARING THE GREAT CARINI IN HIS LAST PERFORMANCE... BUT THE MAESTRO'S VERY GENIUS PROVED TO BE THE WEAPON THAT RANG DOWN THE CURTAIN EVEN BEFORE THE RENOWNED MUSICIAN TOOK THE STAGE...

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Feature request #39: Configurable shortcuts

Currently shortcuts can be changed in configuration file or with very unintuitive way. Dedicated dialog window or something similar will be much better.

Main problem: Mcomix allows multiply shortcuts for one action.

Solution steps:

- Study project much deeper and study GTK2\PyGtk shortcuts
- Remove all gtk keybindings
- Refactor custom keybindings
- Create widget in preference dialog for shortcuts configuration
- Add mechanism to display shortcuts label on gtk menu items

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Appearance

Behaviour

Display

Advanced

Shortcuts



Name	Key 1	Key 2
> Autorotate by height		
> Autorotate by width		
> External commands		
> File		
▼ Navigation		
Back ten pages	<Shift>Page_Up	<Shift>KP_Page_Up
First page	Home	
Forward ten pages	<Shift>Page_Down	<Shift>KP_Page_Down
Go to page	g	
Last page	End	
Next archive	n	
Next directory	<Primary>n	
Next page	Page_Down	KP_Page_Down
Next page (dynamic)	<Alt>Right	
Previous archive	<Primary><Shift>p	
Previous directory	<Primary>p	
Previous page	Page_Up	KP_Page_Up
Previous page (dynamic)	<Alt>Left	
> Scroll		
> Transformation		
> User interface		

Close

Clear dialog choices

changes:

MComix 1.01

...

- Keyboard shortcuts can now be edited from MComix' preference dialog in a new tab "Shortcuts". (by Valentin Gologuzov)

MComix 1.00

...

- The two images in double-page mode will now scale separately again. (by Valentin Gologuzov)

```
% git log --author="Valentin" --oneline --shortstat
```

```
dbda3e4 [bug: #40]: Accelerators completely removed from ui.py ...
```

3 files changed, 392 insertions(+), 125 deletions(-)

```
b7d9b94 [bug: #40] Updating gtk accelerator labels.
```

2 files changed, 20 insertions(+), 1 deletion(-)

```
711189d [bug: #40] Added preference to customise shortcuts. ...
```

7 files changed, 204 insertions(+), 52 deletions(-)

```
db7e6de Fixed: #39 Double page mode: Optionally compute shrink ratio separately.
```

2 files changed, 31 insertions(+), 62 deletions(-)

Experience

- Communicated with maintainer through *sourceforge* bugtracker
- Always got fast and usefull reactions
- First ticket was merged into upstream without any problems
- On second ticket spent a lot of time, however I've missed some little flaws which were solved by maintainer

Thank you for your attention!

Questions?