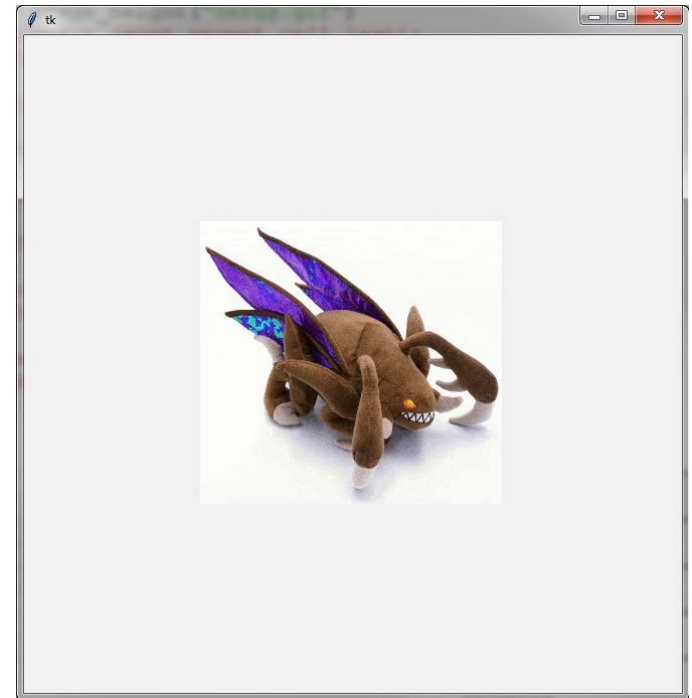


# Python Graphics Example

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- ▶ **Using a library**
  - ▶ I want the program to do this
  - ▶ What functions do I need?



# Python Graphics Example

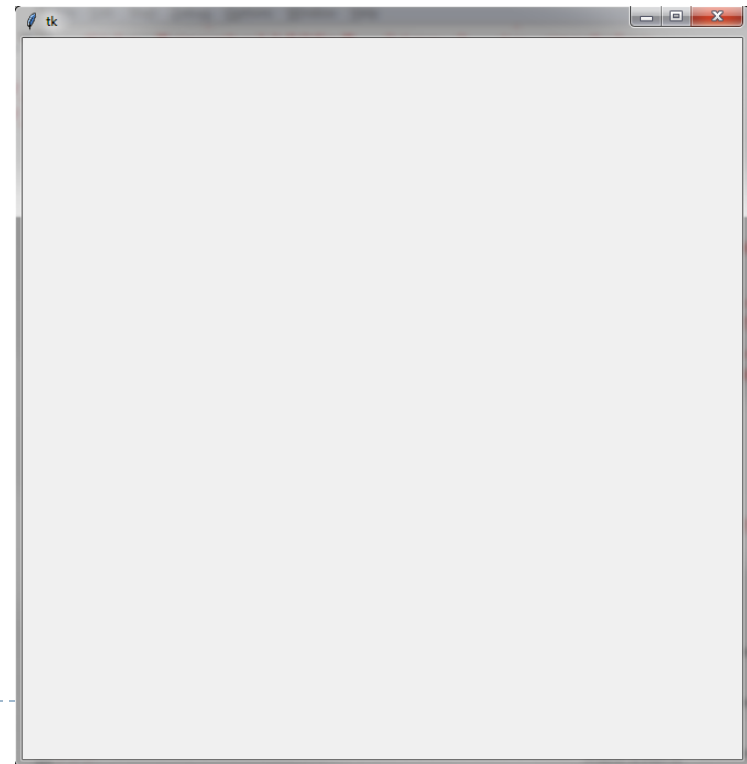
---

- ▶ **Using a library file**

- ▶ File `glib.py` in the same directory as this program
- ▶ `open_window` function takes *width, height* parameters in *pixels*

```
from glib import open_window
```

```
open_window(650, 650)
```



# Python Graphics Example

---

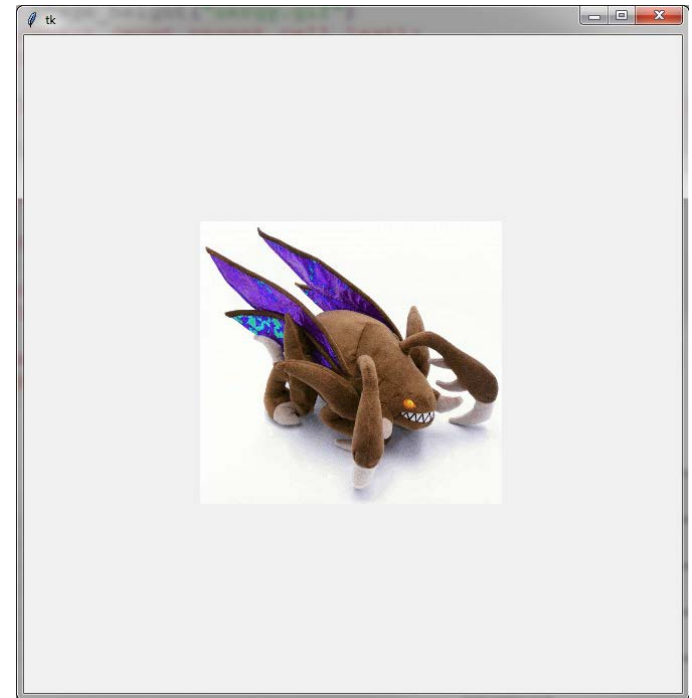
- ▶ **Using a library file**

- ▶ Image file `zergy.gif` in the same directory as this program
- ▶ `show_image` function takes:
  - ▶ filename (string)
  - ▶ center x coord, center y coord
  - ▶ scale factor

```
from glib import open_window
```

```
open_window(650, 650)
```

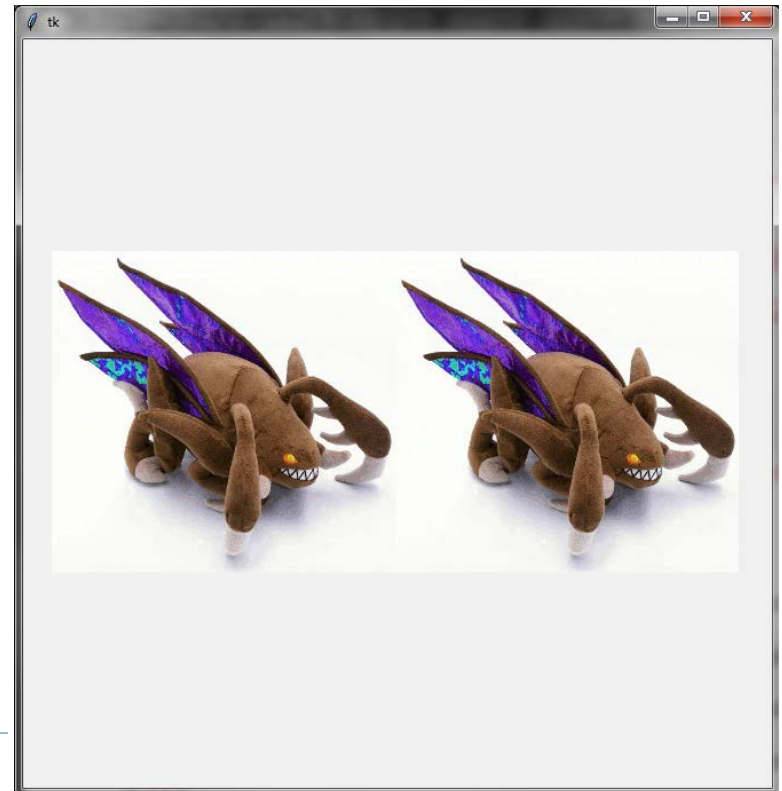
```
show_image("zergy.gif", 650/2, 650/2, 1)
```



# Python Graphics Example

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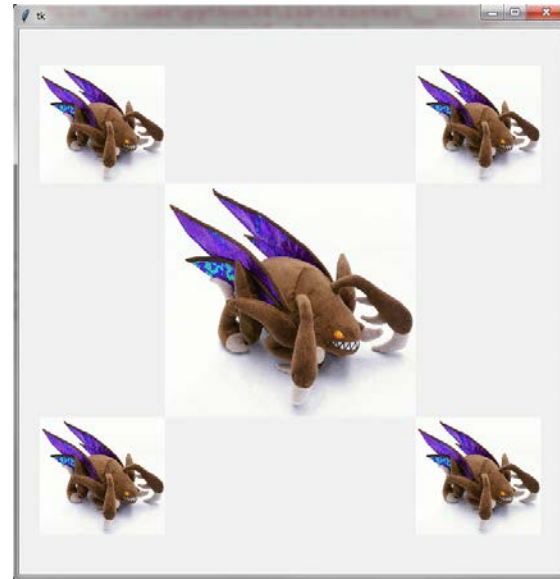
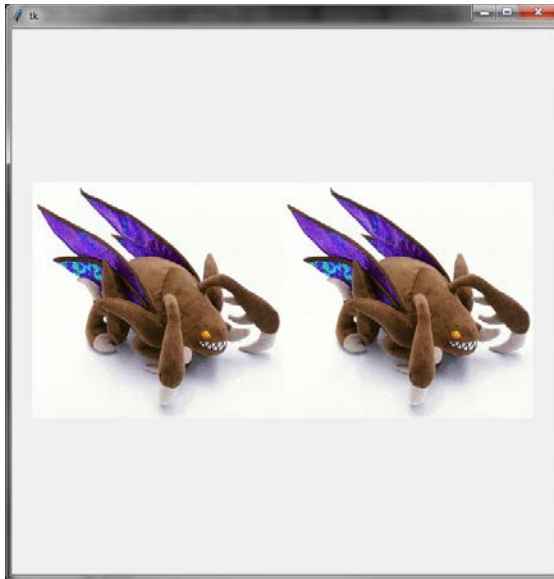
- ▶ Using a library file
  - ▶ How to make this?
    - ▶ (2 images, touching, centered)
  - ▶ What additional functions?



# Python Graphics Example

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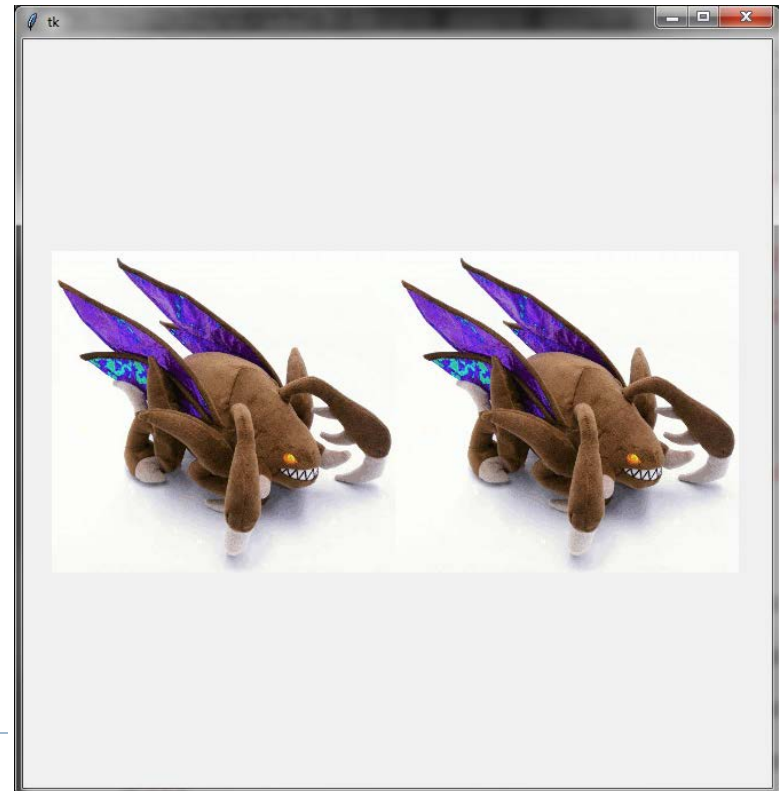
- ▶ Using a library file
  - ▶ What additional functions?
    - ▶ *As general as possible* (works for all cases)



# Python Graphics Example

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- ▶ Using a library file
  - ▶ Can get information from the file as well
  - ▶ *image\_height*, *image\_width* functions take:
    - ▶ filename (string)
  - ▶ and return:
    - ▶ image height, width in pixels



# Python Graphics Example

---

- ▶ Using a library file
  - ▶ Can get information from the file as well
  - ▶ *image\_height*, *image\_width* functions take:
    - ▶ filename (string)
  - ▶ and return:
    - ▶ image height, width in pixels

