```
                        \\\///
                       / _  _ \
                     (| (.)(.) |)
.------------------.OOOo--()--oOOO.-------------------.
|                                                     |
|     _     _            _       _ _                  |
|    | |__ | | ___   ___| | ____| (_) __ _  __ _      |
|    | '_ \| |/ _ \ / __| |/ / _` | |/ _` |/ _` |     |
|    | |_) | | (_) | (__|   < (_| | | (_| | (_| |     |
|    |_.__/|_|\___/ \___|_|\_\__,_|_|\__,_|\__, |     |
|                                          |___/      |
|                                                     |
'------------------.oooO------------------------------'
                    (   )   Oooo.
                     \ (    (   )
                      \_)    ) /
                            (_/
```

```
Codeblock class: blockdiag

    sudo pip install blockdiag nwdiag actdiag seqdiag
    http://blockdiag.com/

    runs:
    > {im_prg} {im_opt} -T {im_fmt} <fname>.{im_fmt} -o <fname>.{im_prg}

    class->cmd
      blockdiag -> blockdiag
      seqdiag -> seqdiag
      rackdiag -> rackdiag
      nwdiag -> nwdiag
      packetdiag -> packetdiag
      actdiag -> actdiag

Metadata options
    imagine.im_out: img,fcb
    imagine.im_log: 4
    imagine.rackdiag.im_fmt: svg
    imagine.seqdiag.im_fmt: svg
    imagine.blockdiag.im_fmt: svg
    imagine.packetdiag.im_fmt: svg
    imagine.nwdiag.im_fmt: svg
    imagine.actdiag.im_fmt: svg


Codeblock class: nwdiag
```

```
    sudo pip install blockdiag nwdiag actdiag seqdiag
    http://blockdiag.com/

    runs:
    > {im_prg} {im_opt} -T {im_fmt} <fname>.{im_fmt} -o <fname>.{im_prg}

    class->cmd
      blockdiag -> blockdiag
      seqdiag -> seqdiag
      rackdiag -> rackdiag
      nwdiag -> nwdiag
      packetdiag -> packetdiag
      actdiag -> actdiag

Metadata options
    imagine.im_out: img,fcb
    imagine.im_log: 4
    imagine.rackdiag.im_fmt: svg
    imagine.seqdiag.im_fmt: svg
    imagine.blockdiag.im_fmt: svg
    imagine.packetdiag.im_fmt: svg
    imagine.nwdiag.im_fmt: svg
    imagine.actdiag.im_fmt: svg
```

blockdiag examples

blockdiag

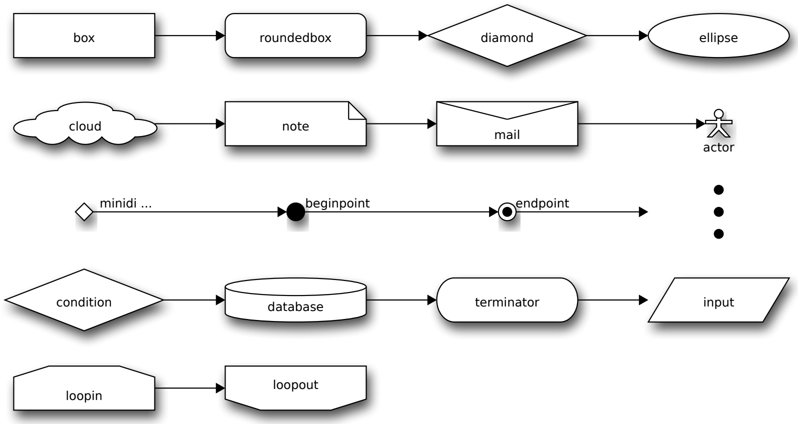

Figure 1: Created by Blockdiag

~~~
```{.blockdiag width="100%" caption="Created by Blockdiag"}
blockdiag {
// standard node shapes
box [shape = "box"];
roundedbox [shape = "roundedbox"];
diamond [shape = "diamond"];
ellipse [shape = "ellipse"];
note [shape = "note"];
cloud [shape = "cloud"];
mail [shape = "mail"];
beginpoint [shape = "beginpoint"];
endpoint [shape = "endpoint"];
minidiamond [shape = "minidiamond"];
actor [shape = "actor"];
dots [shape = "dots"];
box -> roundedbox -> diamond -> ellipse;
cloud -> note -> mail -> actor;
minidiamond -> beginpoint -> endpoint -> dots;
// node shapes for flowcharts
condition [shape = "flowchart.condition"];
database [shape = "flowchart.database"];
input [shape = "flowchart.input"];
loopin [shape = "flowchart.loopin"];
~~~

~~~
loopout [shape = "flowchart.loopout"];
terminator [shape = "flowchart.terminator"];
condition -> database -> terminator -> input;
loopin -> loopout;
}
```
~~~

seqdiag

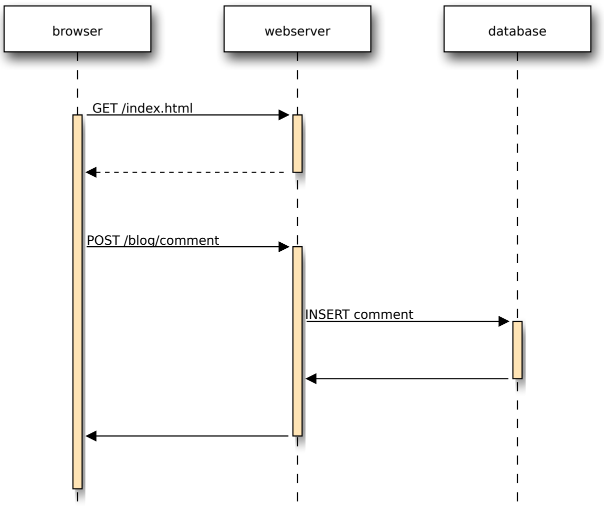

Figure 2: Created by seqdiag

~~~
```{.seqdiag width="80%" height="50%" caption="Created by seqdiag"}
{
browser -> webserver [label = "GET /index.html"];
browser <-- webserver;
browser -> webserver [label = "POST /blog/comment"];
webserver -> database [label = "INSERT comment"];
webserver <- database;
browser <- webserver;
}

```
~~~

nwdiag

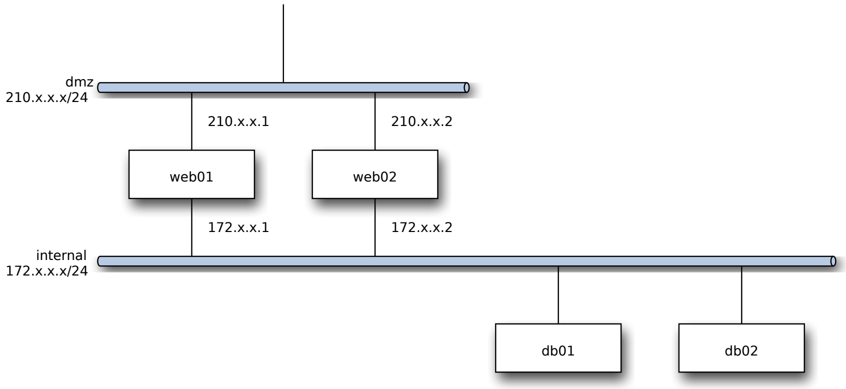

Figure 3: Created by nwdiag

~~~
```{.nwdiag caption="Created by nwdiag"}
{
  network dmz {
      address = "210.x.x.x/24"

      web01 [address = "210.x.x.1"];
      web02 [address = "210.x.x.2"];
  }
  network internal {
      address = "172.x.x.x/24";

      web01 [address = "172.x.x.1"];
      web02 [address = "172.x.x.2"];
      db01;
      db02;
  }
}
```
~~~

actdiag

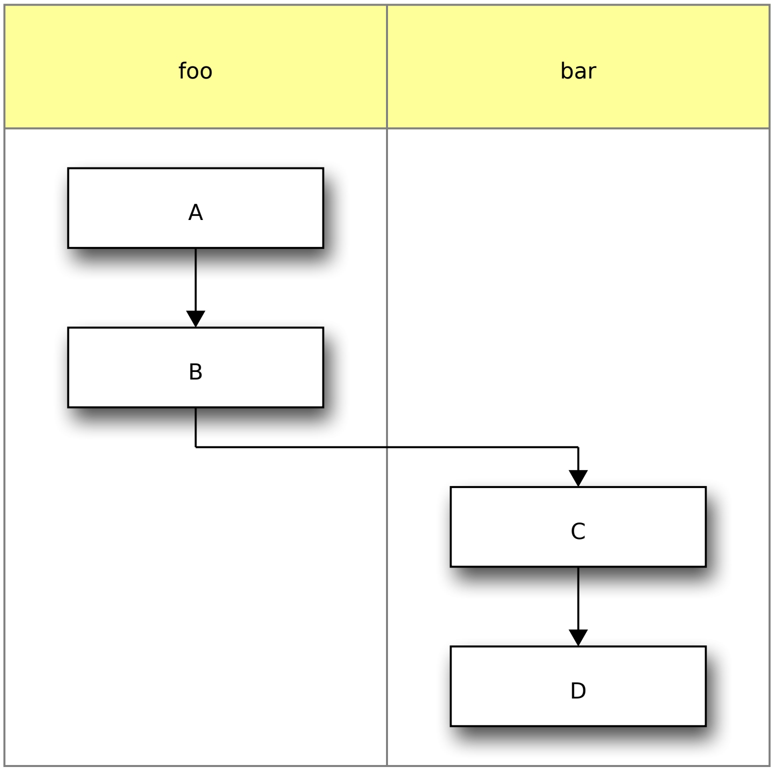

Figure 4: Created by actdiag

~~~
```{.actdiag height="60%" caption="Created by actdiag"}
{
   A -> B -> C -> D;

  lane foo {
    A; B;
  }
  lane bar {
    C; D;
  }
}
```
~~~

rackdiag

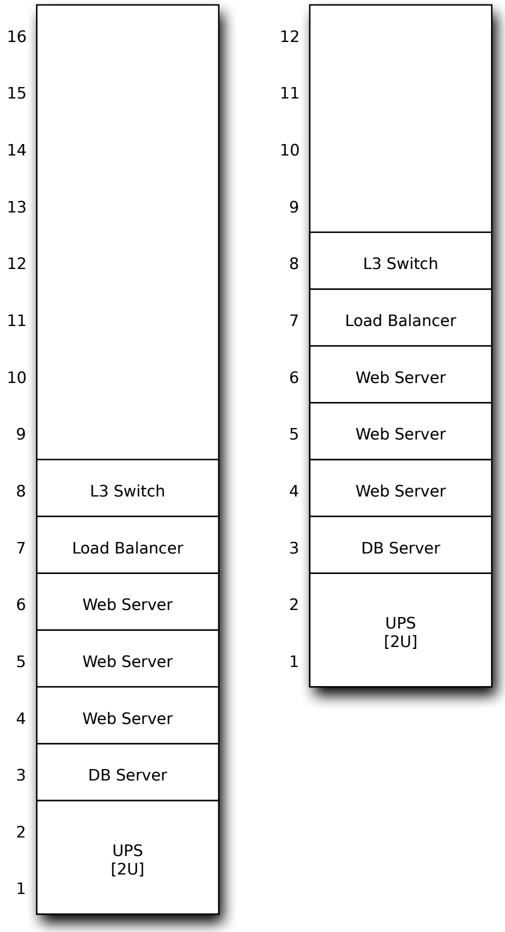

Figure 5: Created by rackdiag

~~~~
```{.rackdiag height="70%" caption="Created by rackdiag"}
{
  // define 1st rack
  rack {
    16U;

    // define rack items
    1: UPS [2U];
~~~~

~~~~
    3: DB Server
    4: Web Server
    5: Web Server
    6: Web Server
    7: Load Balancer
    8: L3 Switch
  }

  // define 2nd rack
  rack {
    12U;

    // define rack items
    1: UPS [2U];
    3: DB Server
    4: Web Server
    5: Web Server
    6: Web Server
    7: Load Balancer
    8: L3 Switch
  }
}
```
~~~~

Documentation

actdiag -h

```
Usage: actdiag [options] infile

Options:
  --version             show program's version number and exit
  -h, --help            show this help message and exit
  -a, --antialias       Pass diagram image to anti-alias filter
  -c FILE, --config=FILE
                        read configurations from FILE
  --debug               Enable debug mode
  -o FILE               write diagram to FILE
  -f FONT, --font=FONT  use FONT to draw diagram
  --fontmap=FONT        use FONTMAP file to draw diagram
  --no-transparency     do not make transparent background of diagram (PNG
                        only)
  --size=SIZE           Size of diagram (ex. 320x240)
  -T TYPE               Output diagram as TYPE format
  --nodoctype           Do not output doctype definition tags (SVG only)
```

blockdiag -h

```
Usage: blockdiag [options] infile

Options:
  --version             show program's version number and exit
  -h, --help            show this help message and exit
  -a, --antialias       Pass diagram image to anti-alias filter
  -c FILE, --config=FILE
                        read configurations from FILE
  --debug               Enable debug mode
  -o FILE               write diagram to FILE
  -f FONT, --font=FONT  use FONT to draw diagram
  --fontmap=FONT        use FONTMAP file to draw diagram
  --no-transparency     do not make transparent background of diagram (PNG
                        only)
  --size=SIZE           Size of diagram (ex. 320x240)
  -T TYPE               Output diagram as TYPE format
  --nodoctype           Do not output doctype definition tags (SVG only)
  -s, --separate        Separate diagram images for each group (SVG only)
```

nwdiag -h

```
Usage: nwdiag [options] infile

Options:
  --version             show program's version number and exit
  -h, --help            show this help message and exit
  -a, --antialias       Pass diagram image to anti-alias filter
  -c FILE, --config=FILE
                        read configurations from FILE
  --debug               Enable debug mode
  -o FILE               write diagram to FILE
  -f FONT, --font=FONT  use FONT to draw diagram
  --fontmap=FONT        use FONTMAP file to draw diagram
  --no-transparency     do not make transparent background of diagram (PNG
                        only)
  --size=SIZE           Size of diagram (ex. 320x240)
  -T TYPE               Output diagram as TYPE format
  --nodoctype           Do not output doctype definition tags (SVG only)
```

seqdiag -h

```
Usage: seqdiag [options] infile

Options:
  --version             show program's version number and exit
  -h, --help            show this help message and exit
  -a, --antialias       Pass diagram image to anti-alias filter
  -c FILE, --config=FILE
                        read configurations from FILE
  --debug               Enable debug mode
  -o FILE               write diagram to FILE
  -f FONT, --font=FONT  use FONT to draw diagram
  --fontmap=FONT        use FONTMAP file to draw diagram
  --no-transparency     do not make transparent background of diagram (PNG
                        only)
  --size=SIZE           Size of diagram (ex. 320x240)
  -T TYPE               Output diagram as TYPE format
  --nodoctype           Do not output doctype definition tags (SVG only)
```

rackdiag -h

```
Usage: rackdiag [options] infile
```

```
Options:
  --version             show program's version number and exit
  -h, --help            show this help message and exit
  -a, --antialias       Pass diagram image to anti-alias filter
  -c FILE, --config=FILE
                        read configurations from FILE
  --debug               Enable debug mode
  -o FILE               write diagram to FILE
  -f FONT, --font=FONT  use FONT to draw diagram
  --fontmap=FONT        use FONTMAP file to draw diagram
  --no-transparency     do not make transparent background of diagram (PNG
                        only)
  --size=SIZE           Size of diagram (ex. 320x240)
  -T TYPE               Output diagram as TYPE format
  --nodoctype           Do not output doctype definition tags (SVG only)
```