

The image features a vibrant, abstract geometric composition. It consists of several large, overlapping triangles in various colors: a bright red triangle in the top-left, a bright orange triangle in the top-right, a yellow triangle on the right side, a teal triangle in the bottom-right, a dark blue triangle in the bottom-left, and a purple triangle on the left side. These triangles are separated by thin white lines. In the center, where the triangles meet, there is a white, irregularly shaped area. The word "Ideas" is written in a simple, dark grey, sans-serif font within this white area.

Ideas

Pipelines

- Any CI/CD framework has them
 - Stages: build, run, deploy
 - Jobs: beagle, raspi..
 - Steps: apt-get, make, ftc, ...

Interactive mode

- Steps
 - Send a string + \n
 - Match the response (with timeout)U
- Use cases
 - U-boot testing
 - RTOS testing
 - Provisioning in u-boot: tftpboot, bootargs..
 - Simple tests
 - Execute command
 - Match response

Interactive mode

- LAVA

- <https://validation.linaro.org/static/docs/v2/actions-test.html?highlight=interactive#interactive-test-action>

```
- name: network
prompts: ["=>", "/ # "]
script:
- name: dhcp
  command: dhcp
  successes:
  - message: "DHCP client bound to address"
  failures:
  - message: "TIMEOUT"
    exception: InfrastructureError
    error: "dhcp failed"
- name: setenv
  command: "setenv serverip {SERVER_IP}"
- name: wait for the prompt
  command:
```

Interactive commands

- We could support the same YAML interface
- And also a command-line interface (this area is probably tricky and has problems with timeliness)

```
ftc power-on -b bbb
ftc expect -b bbb --serial --regex "^u-boot>" --send SIGINT
ftc expect -b bbb --serial --regex "^u-boot>" --send "run tftpboot"
ftc expect -b bbb --serial --regex "^login:" --send "root"
ftc run-test -b bbb -t Functional.StressFilesystem
ftc power-off -b bbb
```

Provisioning a kernel or app

- Installing something
 - `ftc sync -b bbb -t ssh vmlinux-4.19.175 /boot`
 - `ftc exec -b bbb -t serial "ln -s /boot/vmlinux-4.19.175 vmlinux"`

Provision rootfs/kernel/initrd/dtb

- Tftpboot
 - kernel/initrd/dtb: using tftpboot
 - You can flash from initrd
- NFS
 - `ftc provision -b bbb -nfs \`
 `--image xxx.img (or tar.gz)`
- USB-SDCard
- Update in place ← nice for research!!
- Software updates
- PXE
 - Clonezilla