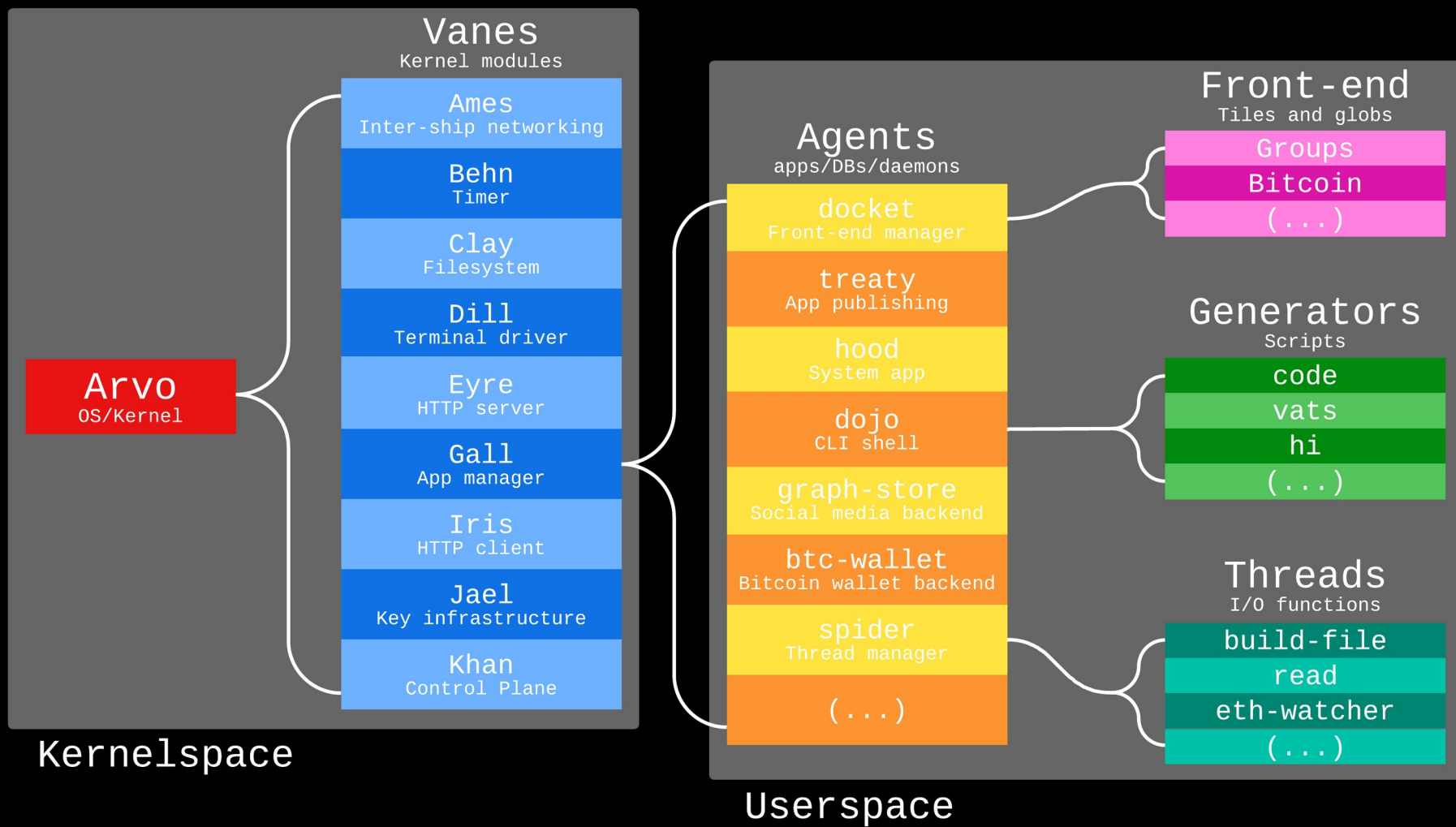
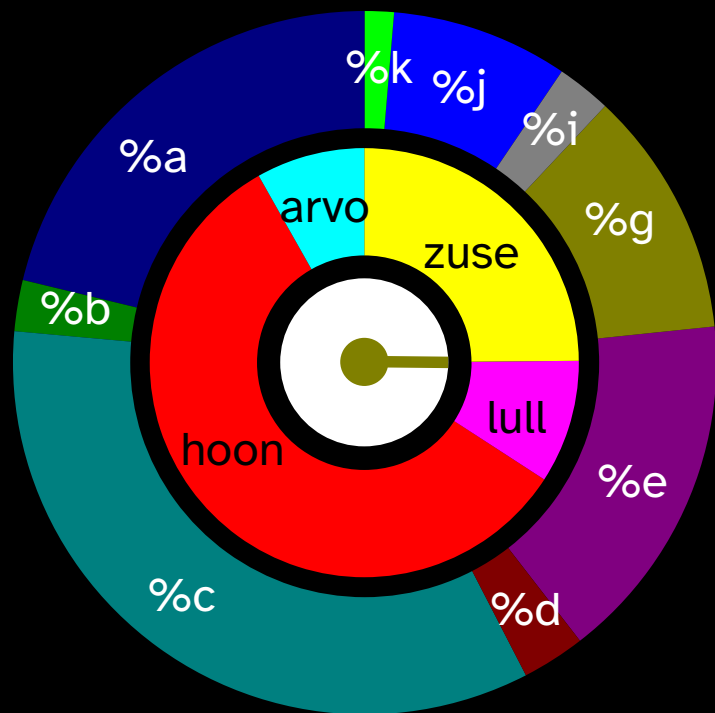




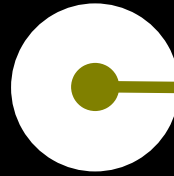
APP SCHOOL LIVE ♥ LESSON 1

ARVO SERVICES

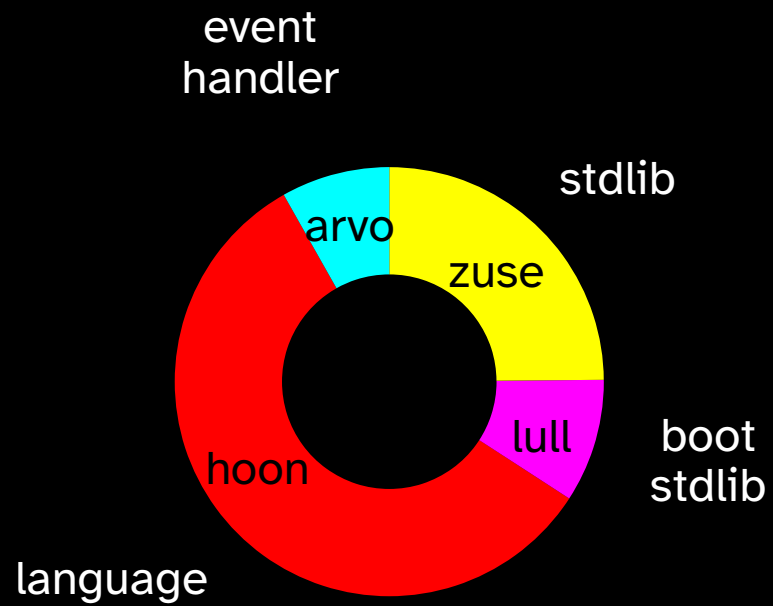


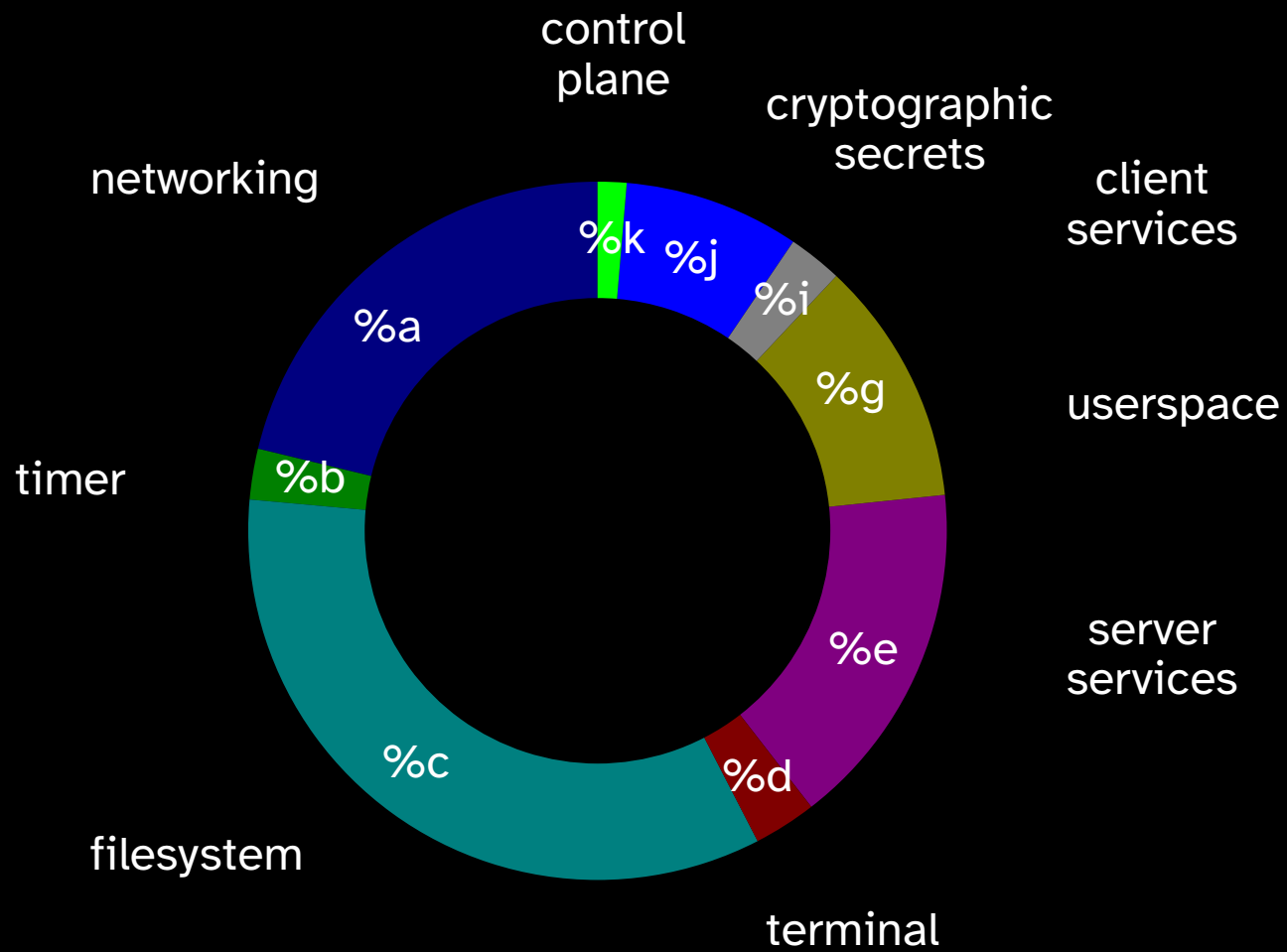


runtime



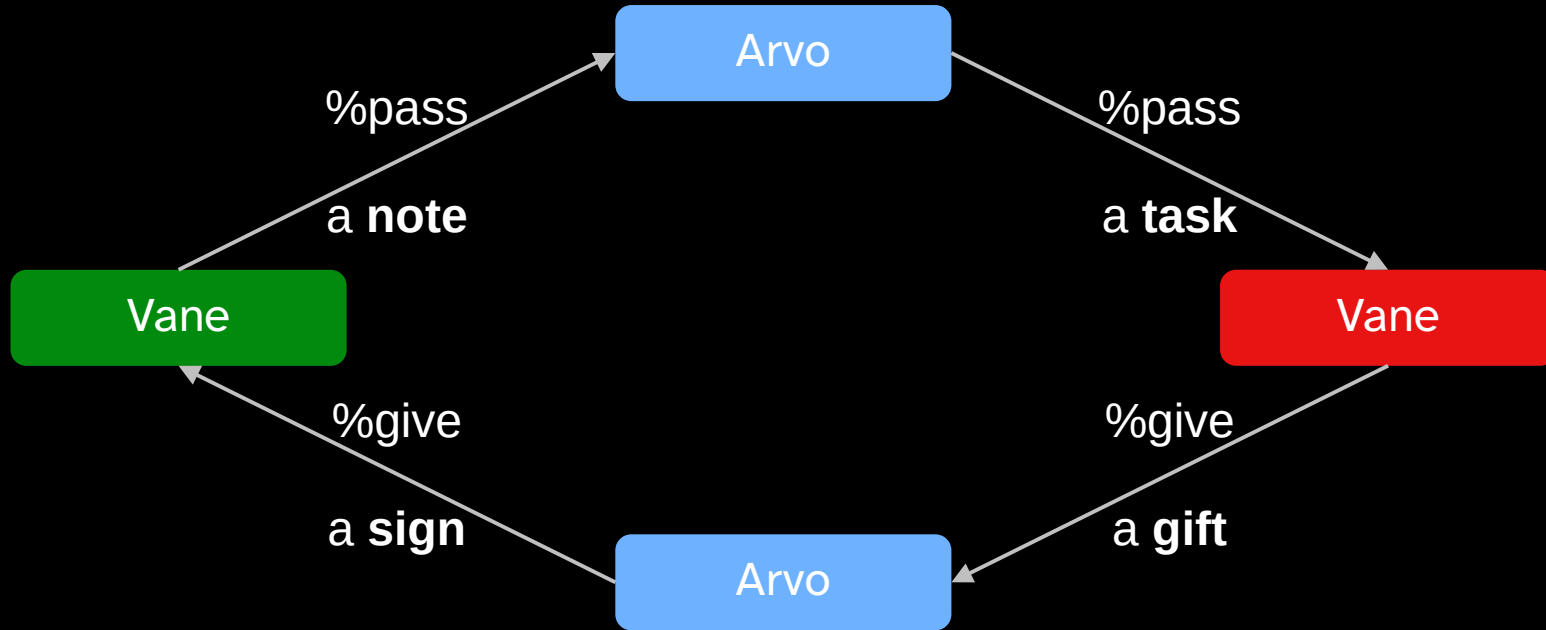
Nock
spec





Arvo

Event Handler



Scrying

.^(type %gx /ship /desk /case /path /mark)

The return type.

The data returned by the scry will be cast to this type. The scry will fail if the data does not nest in this type.

Ship

Always our ship because remote scries are not yet supported.

Case

- For Clay scries this allows you to specify a desk revision to target. The case may be an absolute time, a revision number or a label. The leading %da, %ud or %tas is omitted.
- For all other vanes and agents, this is always the current time.

Path

This is the actual scry path. It will be different for each endpoint.

/foo/bar/baz

Vane

a - Ames
b - Behn
c - Clay
d - Dill
e - Eyre
g - Gall
i - Iris
j - Jael

Care

The kind of request.
One of:

a b c d e f p s
r t u v w x y z

- Usually **x**, meaning "read".
- Sometimes **y**, meaning "directory listing" or the equivalent.
- Occassionally **u**, meaning "existence check".
- The rest are mostly particular to Clay.
- Jael never takes a care.
- Eyre sometimes doesn't take a care.
- The rest of the vanes take a care.

Desk, agent or tag.

- For Clay this is the target desk, e.g. %home.
- For Gall this is the target agent, e.g. %graph-store.
- For Jael, this is a tag which specifies the scry endpoint, e.g %code.
- Sometimes this is a tag for Eyre too, other times it is empty.
- This is always empty for Ames, Behn, and Dill.

Mark

- This is only used for Gall agent scries with a care of **x**. It is omitted entirely in all other cases.
- For a Gall agent **x** scry, Gall will attempt to convert the mark returned by the endpoint to the mark you specify here. The scry will fail if the mark conversion fails.
- Most often just %noun.

Ames

networking



%a

- UDP packets
- end-to-end encryption
- routing, congestion control

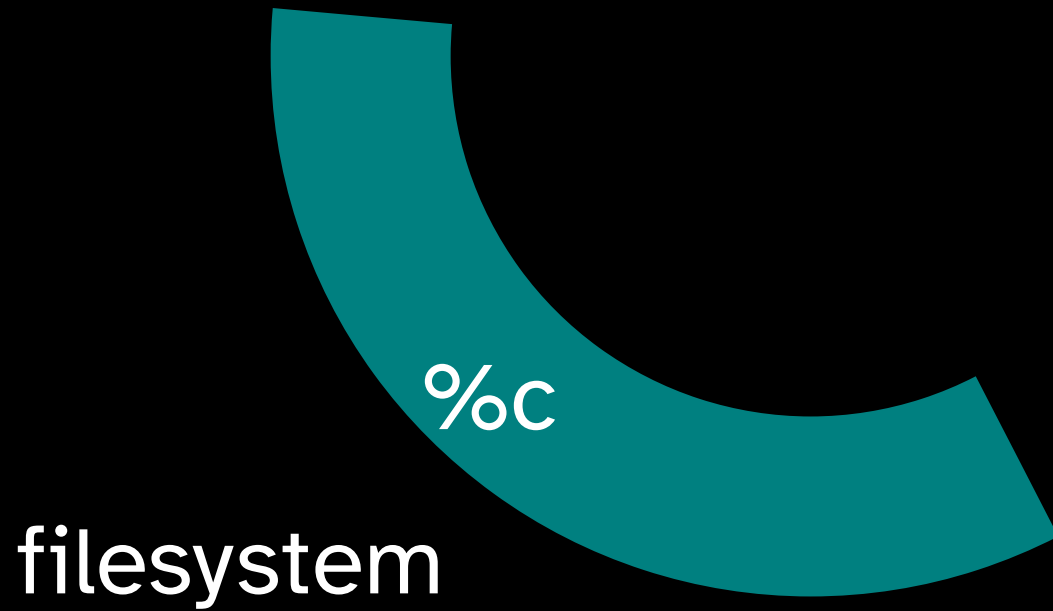
Behn

timer

%b

- timer priority queue
- guaranteed notification *after* wakeup time

Clay

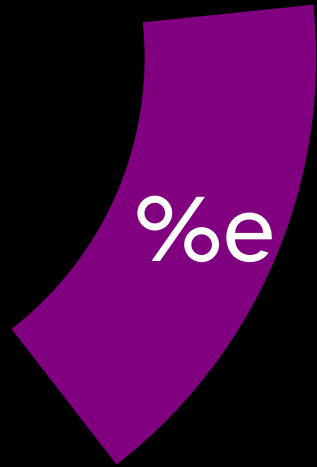


- typed filesystem
- all files have *marks*
- referentially transparent
- version-controlled
- global namespace
- 2 GB limit currently

- session and keyboard handler
- see Drum and Hood



terminal

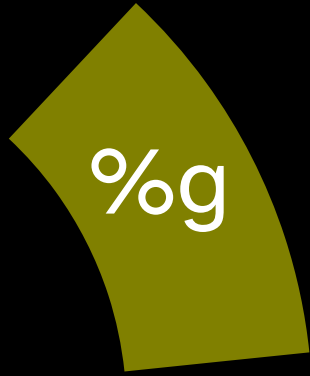


%e

server
services

- HTTP API endpoints
- data subscription model preferred (JSON-based *channels*)
- cookie-based authentication
- MIME types are Arvo-level primitives

Gall



userspace

- persistent daemons
- standard form
- Gall brokers access to Arvo services
- communicates via Eyre

Iris

- client vane for HTTP requests

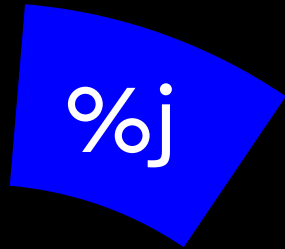
client
services



%i

Jael

cryptographic
secrets



- verify identity
- track public keys (Azimuth state)
- communicate with sponsor

Khan

control
plane

%k

- external thread control plane
- brand new, likely to evolve