



weak censorship

part 1—definitions

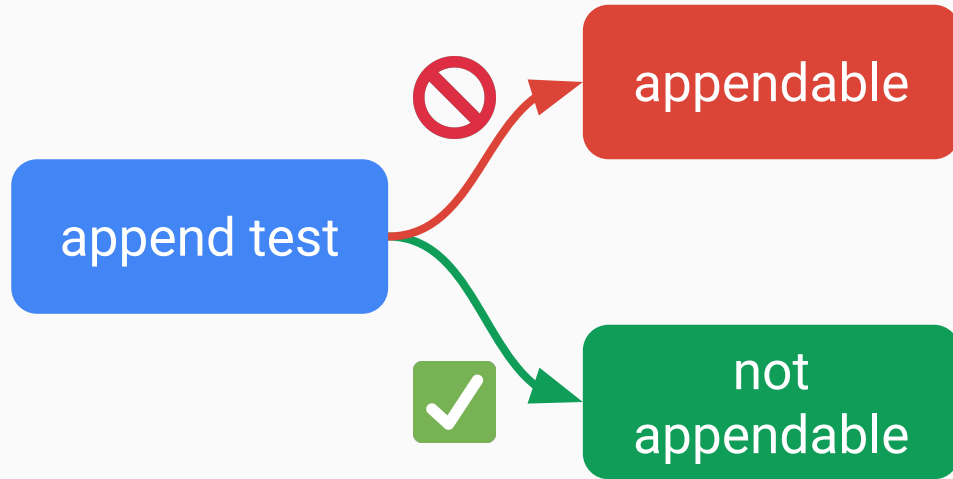
part 2—problems

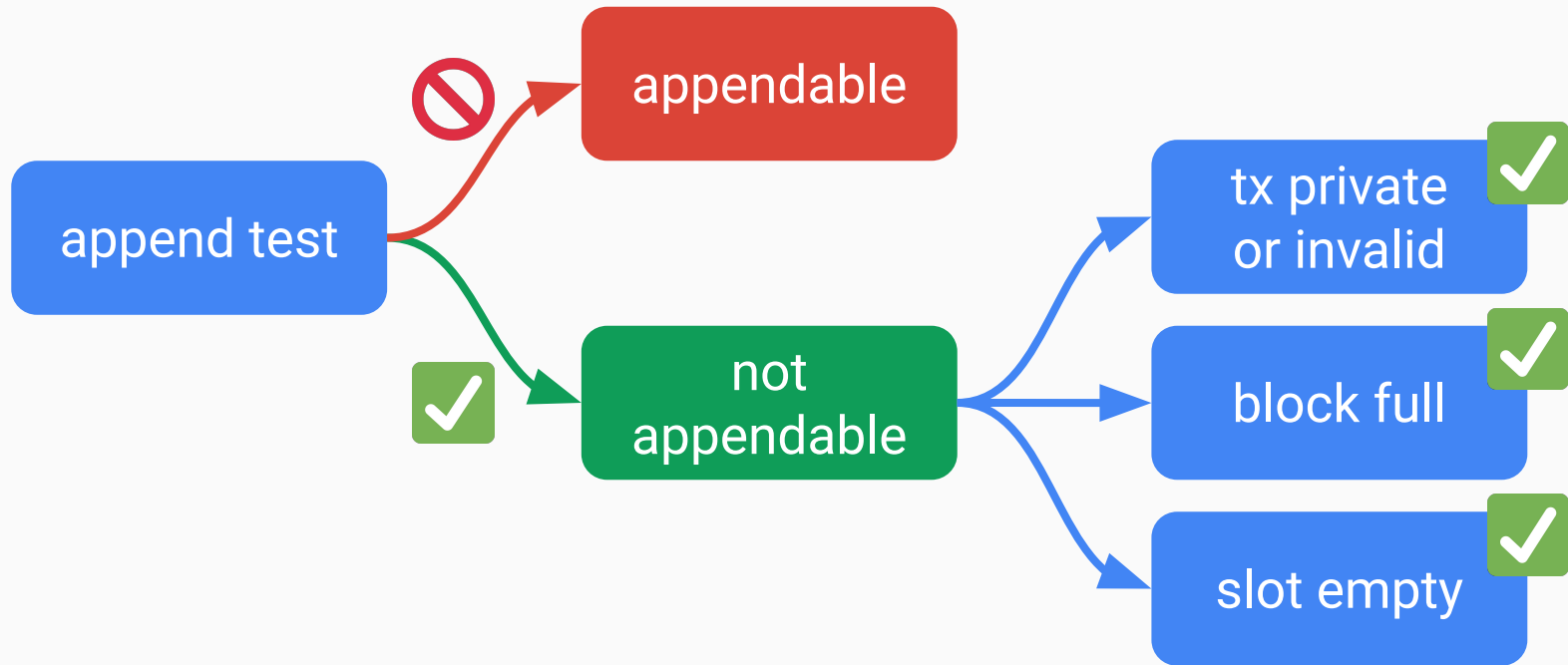
part 3—solutions

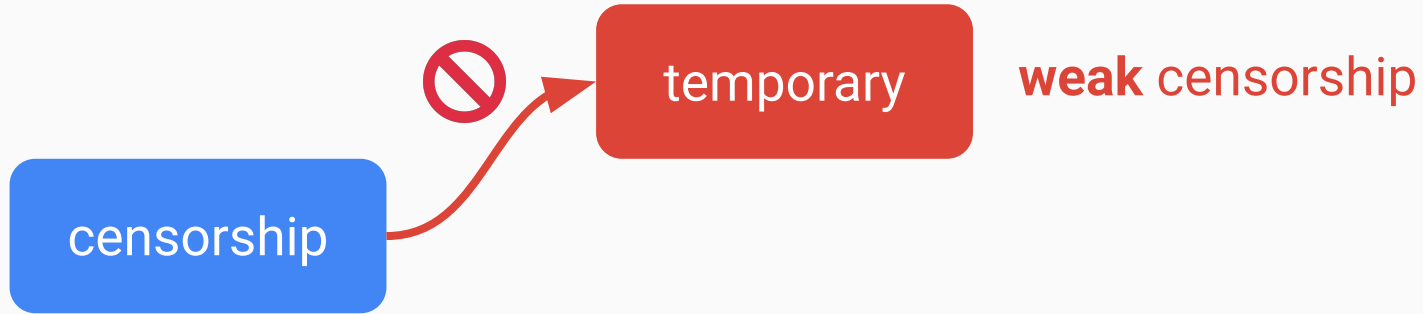
part 1—definitions

part 2—problems

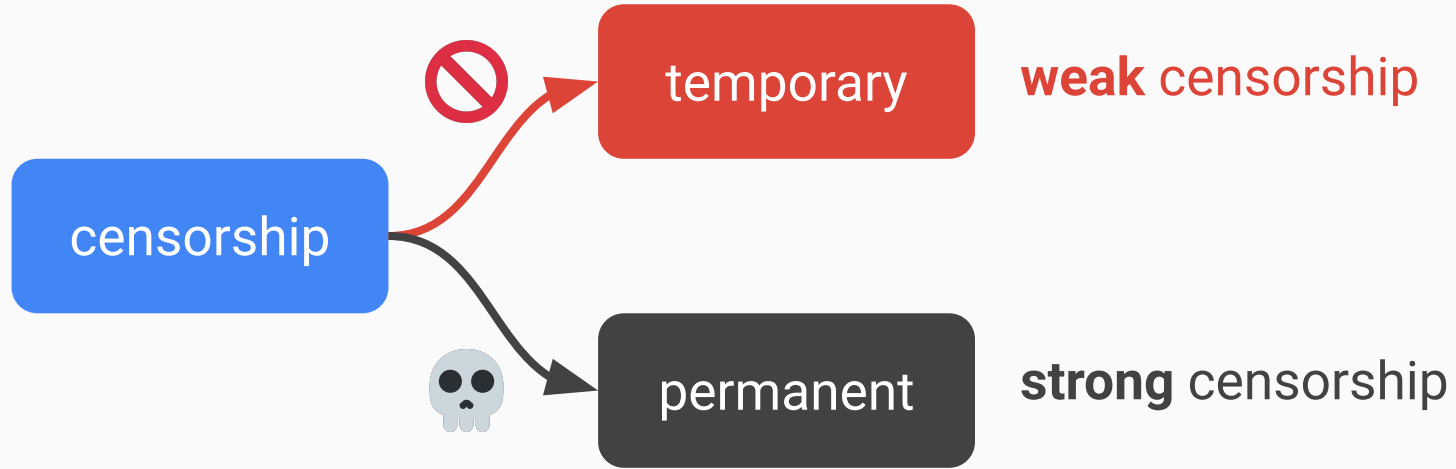
part 3—solutions







# weak and strong censorship



# MEV pipeline

user

wallet

searcher

builder

relay

proposer

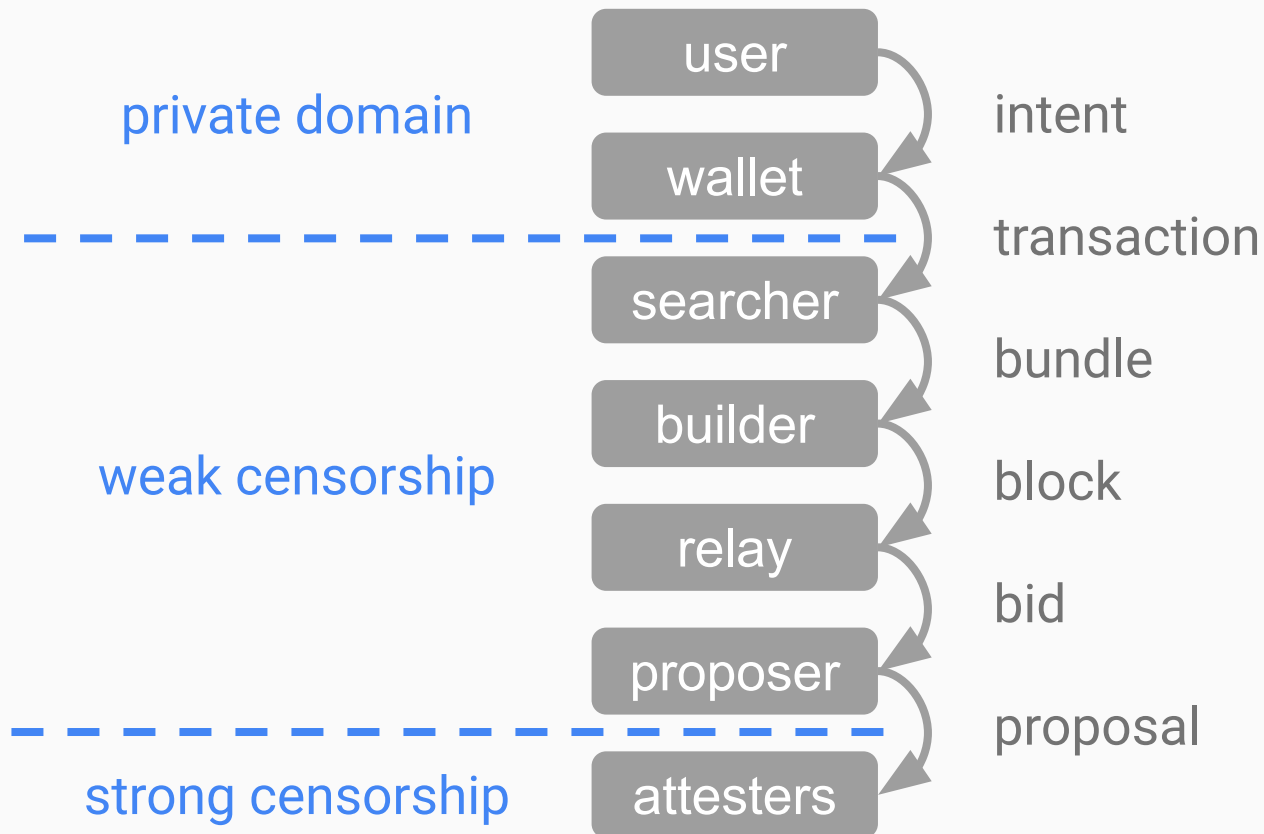
attesters



# MEV pipeline



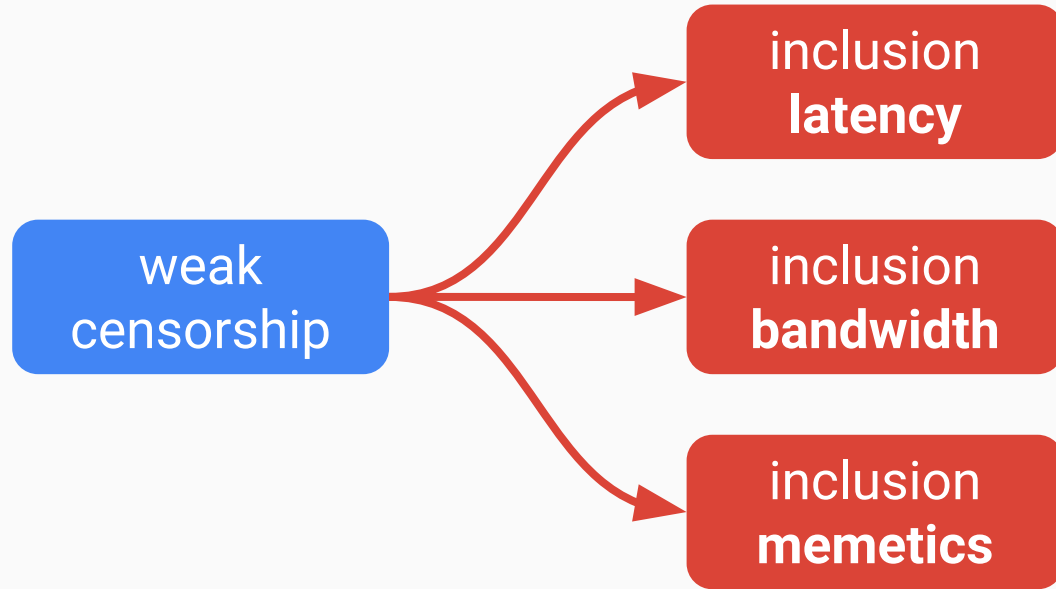
# MEV pipeline

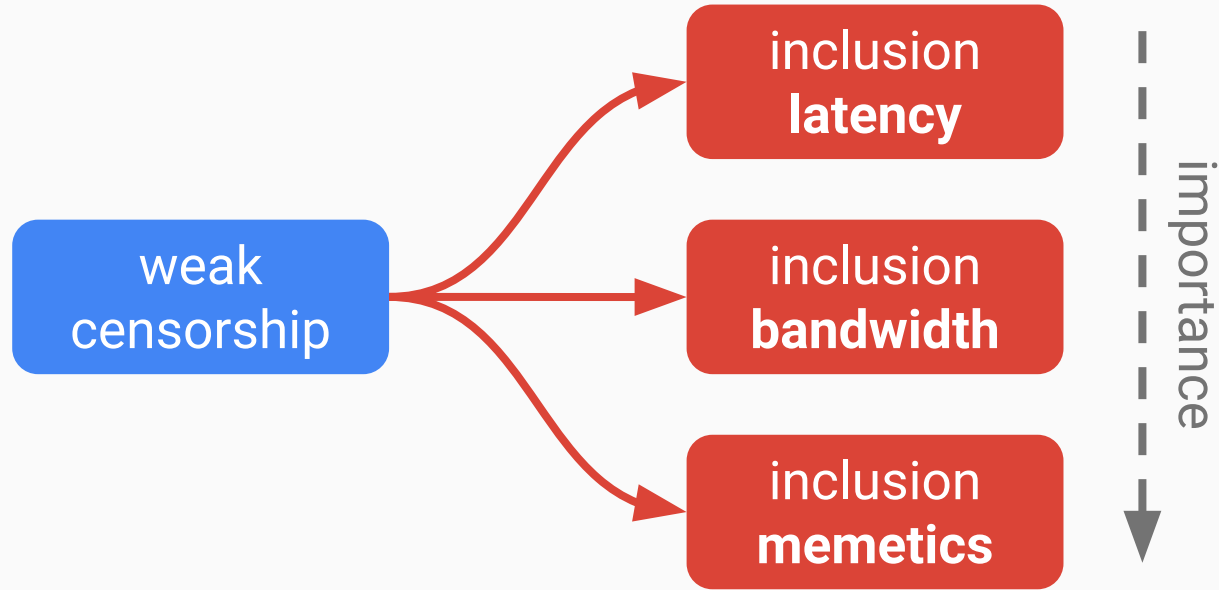


part 1—definitions

part 2—problems

part 3—solutions





$$\text{censored\_transaction\_latency} \\ = \text{l1\_latency} \div \text{l1\_neutrality\%}$$

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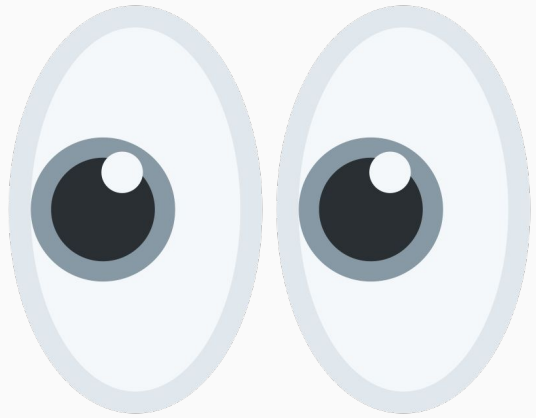


$$\begin{aligned} & \text{censored\_rollup\_bandwidth} \\ = & \text{l1\_bandwidth} \times \text{l1\_neutrality\%} \end{aligned}$$

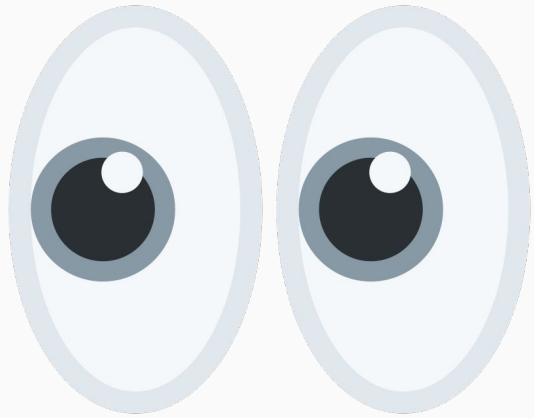


$$\begin{aligned} & \text{censored\_rollup\_bandwidth} \\ = & \text{l1\_bandwidth} \times \text{l1\_neutrality\%} \end{aligned}$$

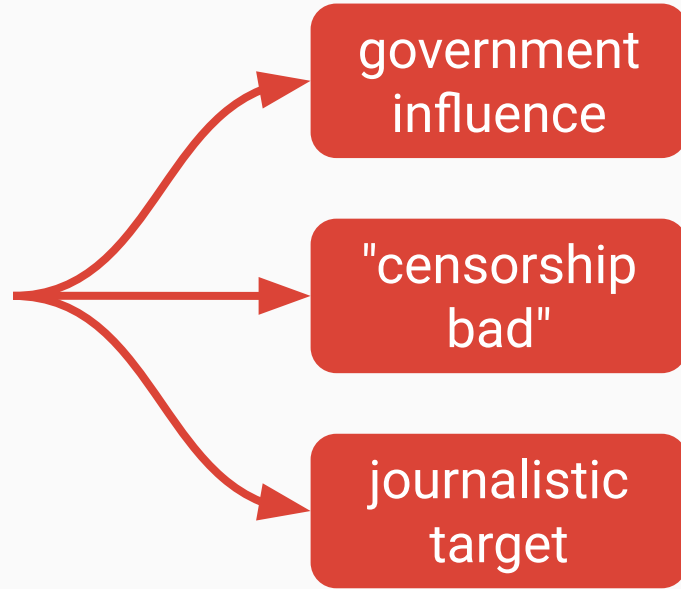


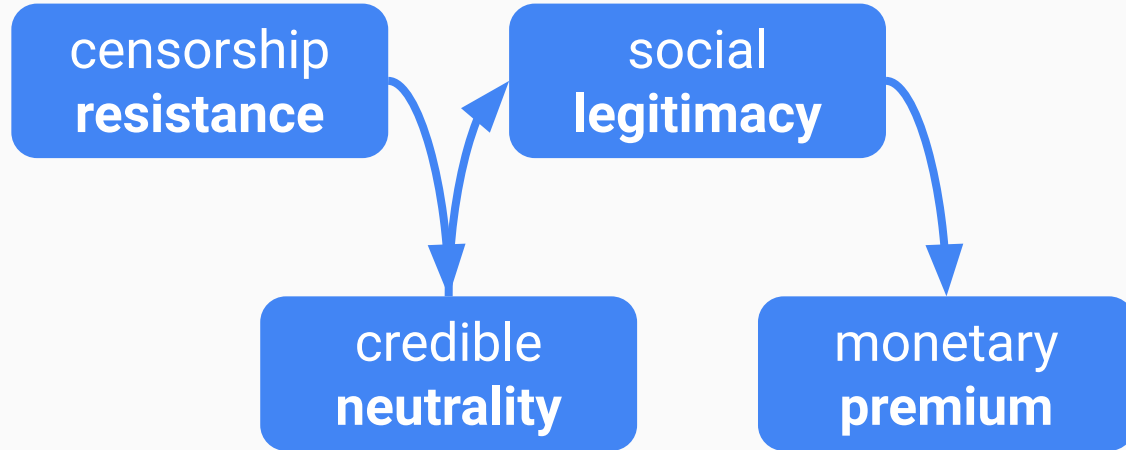


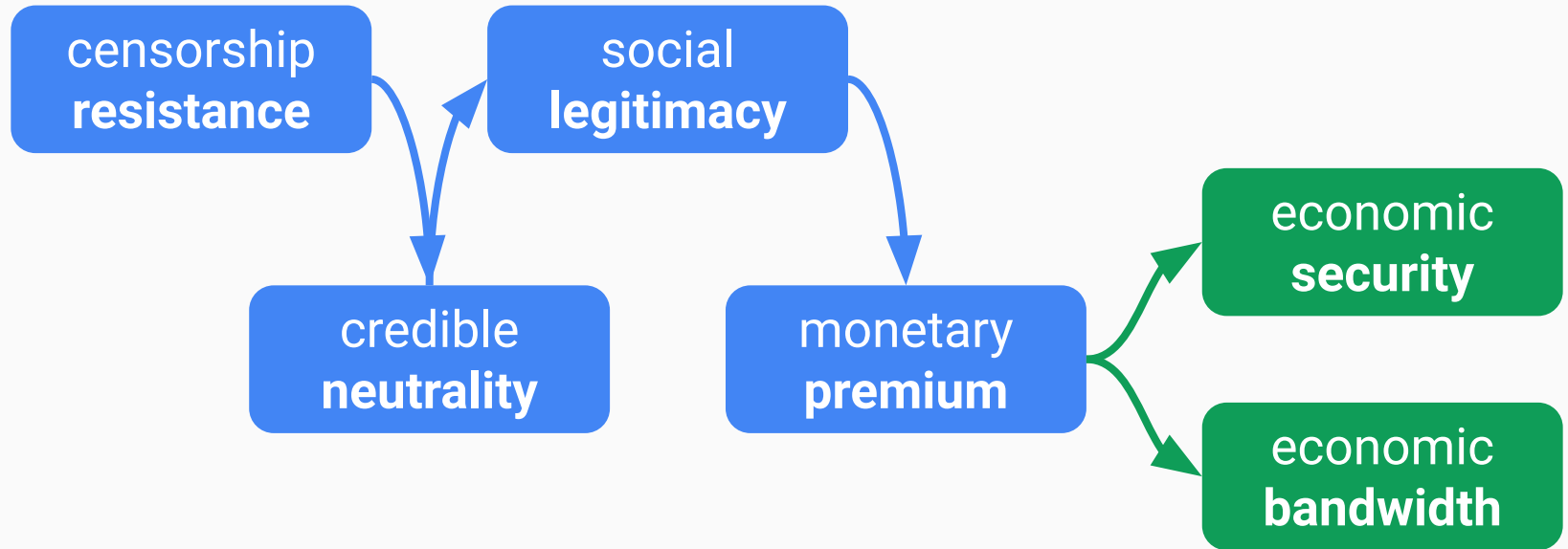
a bad look



a bad look








# L1 censorship today

	censoring
rsync-builder.xyz	yes
beaverbuild.org	yes
titanbuilder.xyz	no
flashbots.net	yes
<i>self building</i>	no
builder0x69.io	yes
gambit.co	yes

## L1 censorship today

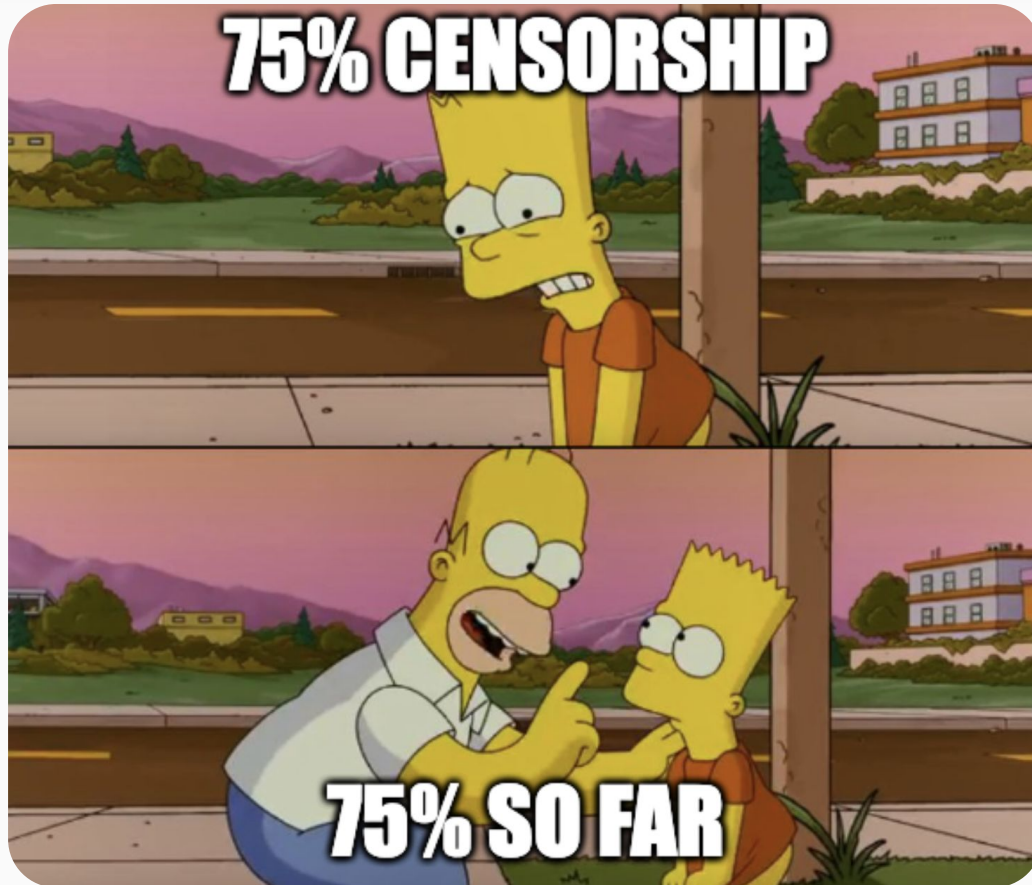
	censoring	7d dominance
rsync-builder.xyz	yes	30.7%
beaverbuild.org	yes	29.8%
titanbuilder.xyz	no	17.0%
flashbots.net	yes	8.0%
<i>self building</i>	no	6.0%
builder0x69.io	yes	4.0%
gambit.co	yes	1.8%

# L1 censorship today

	censoring	7d dominance	
rsync-builder.xyz	yes	30.7%	} 75% 
beaverbuild.org	yes	29.8%	
titanbuilder.xyz	no	17.0%	
flashbots.net	yes	8.0%	
<i>self building</i>	no	6.0%	
builder0x69.io	yes	4.0%	
gambit.co	yes	1.8%	



precarious situation









11\_neutrality%

$$= 1 - \text{mev\_boost\%} = 6\%$$

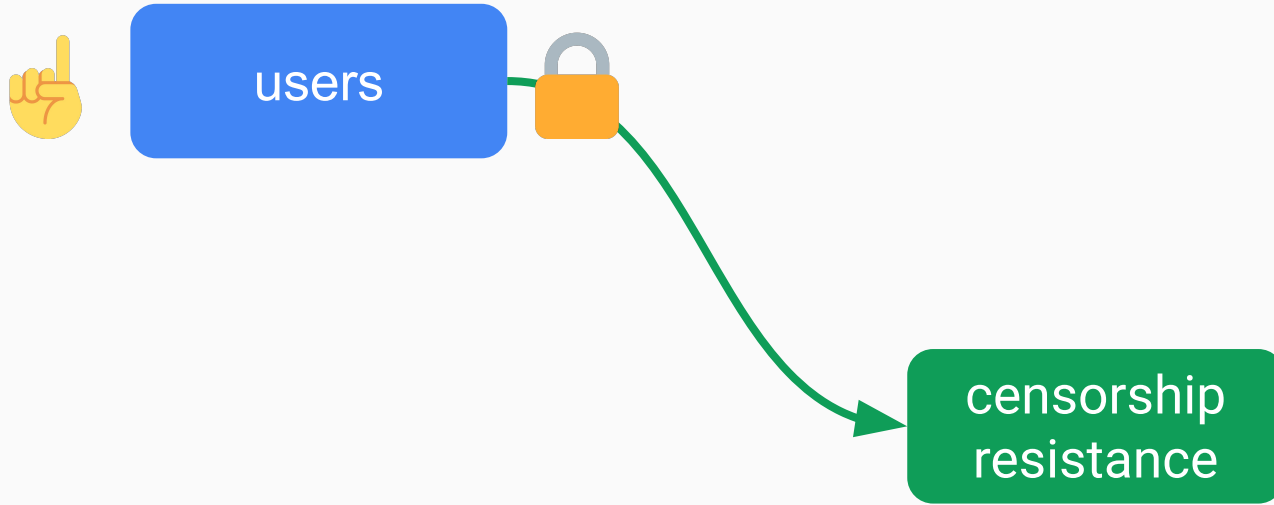
part 1—definitions

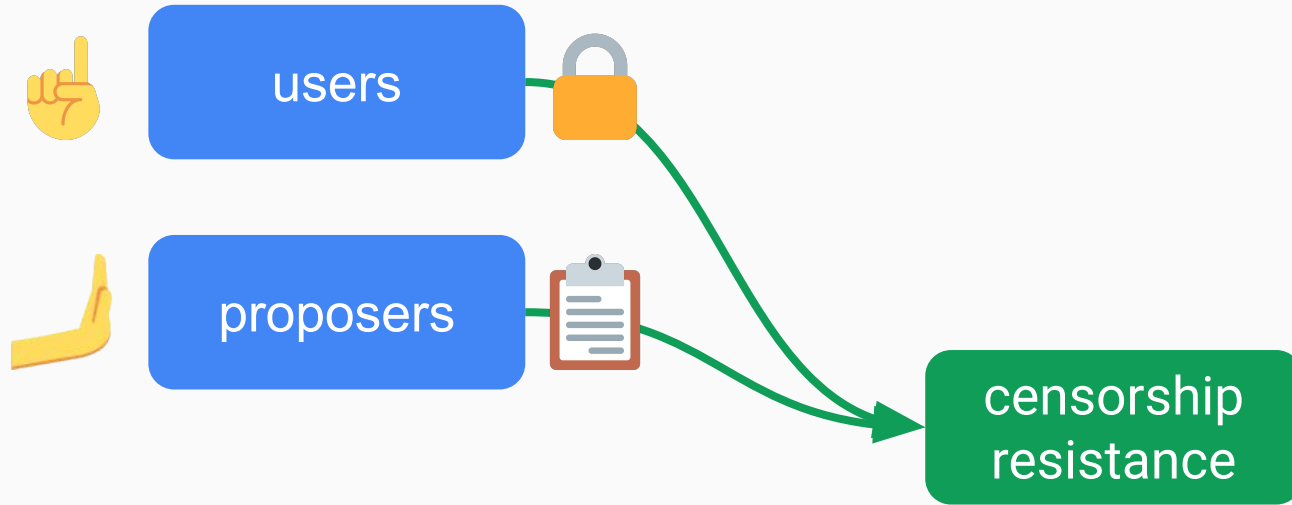
part 2—problems

part 3—solutions

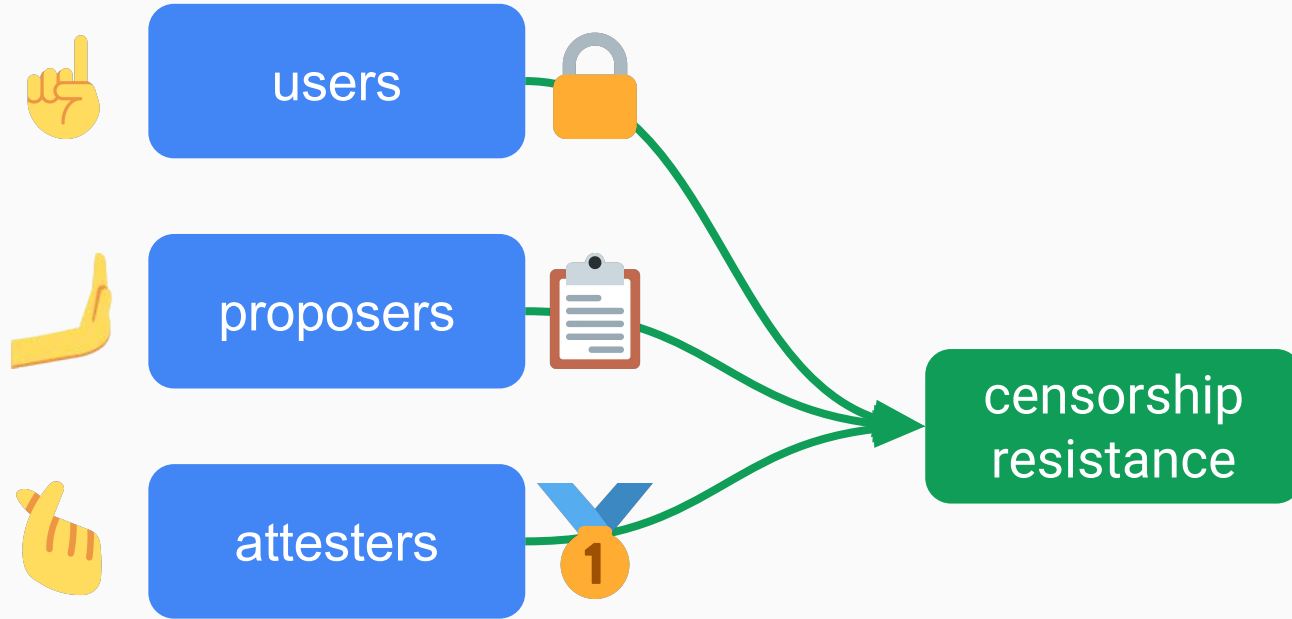
# four solutions

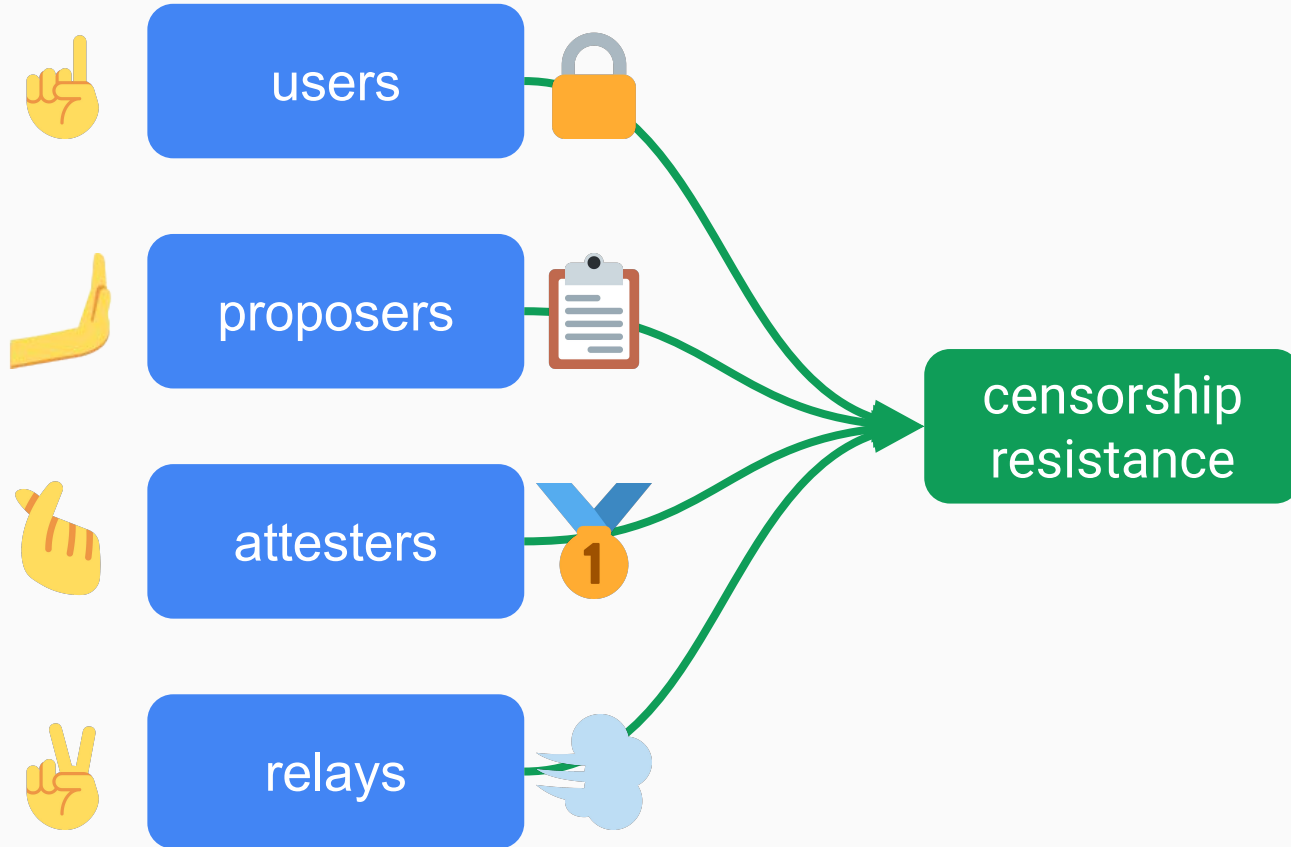












`relay_censorship%` = 0%

before

```
l1_neutrality%  
= builder_neutrality%
```

before

$$l1\_neutrality\% \\ = \text{builder\_neutrality}\%$$

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after

$$l1\_neutrality\% \\ = \text{builder\_neutrality}\% + \text{inclusion\_list}\% \\ - \text{builder\_neutrality}\% \times \text{inclusion\_list}\%$$

before

$$\text{censorship\_cost} \\ = \sum(\text{censored\_transaction\_tips})$$

before

$$\text{censorship\_cost} = \sum(\text{censored\_transaction\_tips})$$

---

after

$$\text{censorship\_cost} = \sum(\text{encrypted\_transaction\_tips})$$

before

$$\text{censorship\_cost} = \sum(\text{censored\_transaction\_tips})$$



before

$$\text{censorship\_cost} = \sum(\text{censored\_transaction\_tips})$$

---

after

$$\text{censorship\_cost} = \sum(\text{censored\_transaction\_tips}) + \sum(\text{censored\_transaction\_base\_fees})$$

`inclusion_list% = 100%`



thank you :)

