



PLEBNET.DEV

BUILD THE FUTURE

Welcome

Agenda

- Bolt 11
- LNURL
- Lightning Addresses
- Future Workshop
- Open Discussion



Layers

End User Applications

LN.tips bot, Cashu, getAlby
AI Image Generator bots

Layer 2 1/2:
Tools for building apps

LNBits, LDK, BDK, Breez SDK

Lightning Network, Layer 2

LND, CLN, ACINQ Eclair

Bitcoin, Layer 1

Bitcoind, Core Node

BOLT 11

What is this?

- Basis of Lightning Payments (BOLT) #11
- Specification:
 - <https://github.com/lightning/bolts/blob/master/11-payment-encoding.md>
 - <https://bolt11.org>
- Lightning Decoder:
 - <https://lightningdecoder.com/>

Lightning Invoice


<https://www.bolt11.org/>

The Lightning Invoice

Learn the inner workings of BOLT11 Lightning Network invoices.


```
lnbc15u1p3xnh12pp5jptserfk3zk4qy42tlucyrfwxhydvlému9pqr  
93tuzlv9cc7g3sdqsvfhkcap3xyhx7un8cqzpgxqzjcsp5f8c52y2stc  
300gl6s4xswtjpc37hrnnr3c9wvtgjfvqmpm35evq9qyyssqy4lgd8t  
j637qcjp05rdpxxykjenthxftelj7a2zzmwrml70fyj9hvj0rewhzj7j  
fyuwkwcg9g2jpwtk3wkjtwnkdk84hsnu8xps5vsq4gj5hs
```


Not all QR Codes the same!




ID: jourm6M
Amount: 10000 sat
Accepts comments: no
Dispatches webhook to: nowhere
On success: do nothing


COPY LNURL







CLOSE



COPY INVOICE

CLOSE

LNURL

- Static Identifier
 - similar idea to a website link but for lightning payments
- Specification
 - <https://github.com/lnurl/luds>
- Application use:
 - LNBits – lnurlp and lnurlw extension
- Implementation:
 - <https://testnet.plebnet.dev> (Testnet)
 - <https://legend.lnbits.com> (MainNet)

Lightning Address

- Static Payment identifier
- Specification:
 - <https://lightningaddress.com>
 - <https://github.com/andrerfneves/lightning-address/blob/master/README.md#tldr>
- Implementations
 - LNBits – Lnurlp
 - <https://sendsats.to>
 - getalby.com

Key points

- BOLT 11 or Invoices:
 - Dynamic, will expire in 15–25 minutes (Inbc....)
- LNURL or Lightning Address:
 - Static Payment identifier,
 - Doesn't expire but fetches a Bolt 11
 - (LNURL.....)
- BOLT11 mostly likely supported but not LNURL/LNAddresses

Future Workshop

Next time....

- Come with some experience of using Nostr + LN
- Rehash of the Bolt11/LNURL/LN Address in depth
- Nostr Zaps
 - <https://github.com/nostr-protocol/nips/blob/master/57.md>)
- Bolt 12 (bolt12.org/)
- Unified QR Codes (<https://bitcoinqr.dev/>)
- Any interesting new specifications.

Questions?



Benefits: New to Bitcoin + Beginners

- How to Accelerate learning?
 - **Level up by Doing, not Passively Observing**
 - **Learn good contributor best practices**
- Find a Mentor:
 - **1-1 sessions will help you reach your goals faster.**
- Practice the Learn/Build/PR Loop



PR Feedback

Refine with insights.

Learn

Dive into
development.

Build

Turn knowledge into creations.



Benefits: Experienced Devs + Mentors

- Get help with your existing projects
- Share your ideas or creations by holding a workshop
- Expand your network of builders
- Get paid to Mentor or teach enthusiastic new devs



Open Projects List

<https://dub.sh/2rJGH3f>

(will move to github soon)

Open Projects List

Here is List of open projects, an open call for contributions. This is core to plebnet.dev to help us grow as an org as well as the FOSS ecosystem.

Projects on this list are sponsored by a mentor, if you want to lead a project let us know and we can add it to the list. If you are new to open source, start small, consider writing a blog entry, find an open issue or work on documentation and/or testing. If you're more ambitious and/or have some experience feel free to pick up a project and take it on.

Beginner friendly

Project Mentor or Lead	What	Status
BitcoinDad	Add Blog content to plebnet.dev website @ website	open
bitkarrot	nostr-telegram bridge https://github.com/lightninggames/nostr-telegram	bloggingbitcoin
open	nostr-discord bridge https://github.com/lightninggames/nostr-discord	open
open	Astro Blog → Nostr automated bridge https://github.com/lightninggames/astroblog-nostr	open
open	Nostr kit integration with astro	open
bitkarrot	Rebrand Rates calculator and improve it for plebnet.dev, useful for htlc.me conversions. https://github.com/plebnet-dev/satsconverter	charan
BitcoinDad	Rebrand Nostrogen for plebnet.dev	bitcoindad
bitkarrot	Improve lnbitsbot-py template for multiple users, see open issues: @ Issue #5 https://github.com/lightninggames/lnbitsbot-py/issues/5	open, bloggingbitcoin
BitcoinDad	Create a contact form for plebnet.dev	bitcoindad
open	Convert this projects list to a github issues list	open

More involved, [Top section for Plebnet.dev](#), [Bottom section](#) are independent

Project Mentor or Lead	What	Status
bitkarrot	Run an instance of metadata @ nostr-profile-manager for plebnet.dev, for backing up nostr data	bitkarrot
bitkarrot	Signet Faucet branded (node.js) @ faucet for Plebnet.dev	bitkarrot
	ecommerce store for swag that accepts btc payments for Plebnet.dev - this is open ended, good only if you really want to learn ecommerce w/bitcoin + LN, as its a bit of an undertaking	open
Project Mentor or Lead	What	Status
Richard Safier	plebnet-playground https://github.com/PLEBNET-PLAYGROUND	open
Bitkarrot	pylnbits - Open call for pytest writers, documentation, module extensions https://github.com/lightninggames/pylnbits	open