

How about modifying that regex to ensure that it includes only those types of characters, i.e., (numbers, uppercase and lowercase letters)?

ChatGPT said:

To ensure that a string **must contain** at least one lowercase letter, one uppercase letter, and one digit **and only include those types of characters**, you can use the following regex:

```
regex
CopyEdit
^ (?=.*[a-z]) (?=.*[A-Z]) (?=.*\d) [a-zA-Z\d]+$
```

💡 Breakdown:

✓ Positive Lookaheads (same as before):

- `(?=.*[a-z])` — at least one lowercase letter
- `(?=.*[A-Z])` — at least one uppercase letter
- `(?=.*\d)` — at least one digit

These assert that each type is **present** somewhere.

✓ Allowed characters only:

- `[a-zA-Z\d]+` — only allows:
 - lowercase letters `[a-z]`
 - uppercase letters `[A-Z]`
 - digits `\d`
- `+` — string must be **at least one character long** (can change to `{8,}` for minimum length of 8)

✓ Anchors:

- `^` and `$` make sure the whole string is evaluated, not just a part of it.
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💡 Examples:

Input	Match?	Reason
Abc123	✓	Contains all 3 types, only allowed characters
123abcDEF	✓	Contains lowercase, uppercase, and digits
abc123!	✗	Contains a <code>!</code> , which is not allowed
ABC123	✗	No lowercase letter
abc123	✗	No uppercase letter
Abcdef	✗	No digit

Let me know if you want to allow or restrict additional character types (e.g., special symbols or underscores).