Attractive repository

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Attractive = combination of factors intro

- Can I trust you? How do you position your code? `LICENSE.txt` exaplain that!
- What is it? How to use it? `README.md` or website exaplain that!
- How to configure it? How to up it locally? GitHub wiki or website exaplgin that!
- Can I ask some questions? GitHub discuessions exaplain that!
- How to report bugs? Issue templates exaplain that!
- How to contribute? `CONTRIBUTING.md` explain that!
- What are the rules in the codebase? CI exaplain that!
- Can I rely on this project? Speed of releasing exaplain that!
- And something else: time to merge, PL, stars, many countributors, many issues, ...

Success is predictable

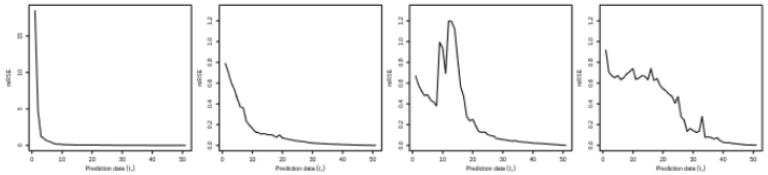
intro

«Predicting the Popularity of GitHub Repositorie», 9th Sepetember 2016, Hudson Borges, Andre Hora, Marco Tulio ValenteASERG Group. doi: 10.1145/2972958.2972966.

- In study was developed some predication model.
- This model was try on a few of pupular repositoryes for precation their growth in the next mounths.
- And model working not bad!
- For us it's mean, that if we will follow some rules, the probability of success will increase.

Table 3: Number of stars gained (real and predicted measures) for the top-10 (first table half) and bottom-10 repositories (second table half). Predictions are produced using a generic model ($t_r = 26$ weeks and $t = 52$). We can see that the error (column "% Diff") is lower for the top-repositories.

Repository	Stars	Predicted	% Diff
jquery/jquery	6,160	5,369	-12.84
robbyrussell/oh-my-zsh	13,536	11,829	-12.61
airbnb/javascript	17,026	14,882	-12.59
h5bp/html5-boilerplate	4,896	4,691	-4.19
meteor/meteor	9,919	10,082	+1.64
torvalds/linux	10,566	9,682	-8.37
daneden/animate.css	10,492	9,452	-9.91
facebook/react-native	18,443	19,373	+5.04
rails/rails	5,701	5,128	-10.05
docker/docker	10,268	9,721	-5.33
ReactiveRaven/jqBootstrapValidation	213	298	+39.91
infinitered/ProMotion	119	238	+100.00
nslocum/design-patterns-in-ruby	640	731	+14.22
jbt/markdown-editor	621	744	+19.81
mumble-voip/mumble	565	667	+18.05
Manabu-GT/ExpandableTextView	676	623	-7.84
apache/flink	890	712	-20.00
mafintosh/mongojs	322	381	+18.32
rofl0r/proxychains-ng	813	790	-2.83
mikeflynn/egg.js	584	793	+35.79



(a) Cluster C1 (b) Cluster C2 (c) Cluster C3 (d) Cluster C4

Figure 8: Model prediction error for different growth trends (i.e., clusters extracted using the KSC algorithm)

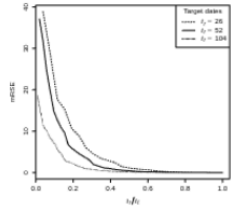


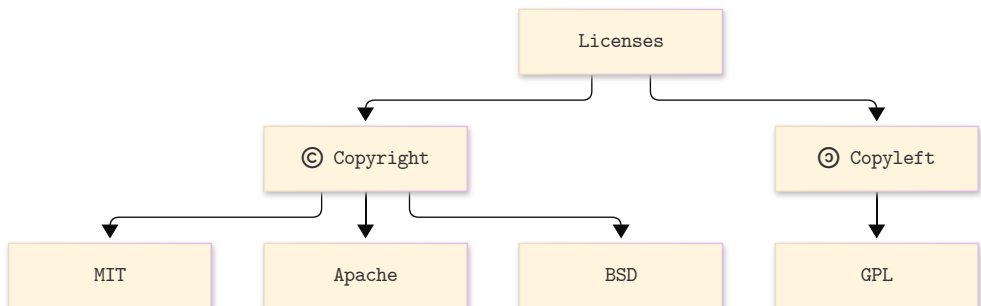
Figure 9: Generic model error (y-axis). Predictions for 26

we predict the number of stars at week 52.

Figure 8 reports the average error across all specific models. Cluster C1, which concentrates almost half of the repositories, presents a fast decreasing in the average error, e.g., mRSE $= 18.500 \pm 14.501$ for $t_r = 1$ week and 0.127 ± 0.020 for $t_r = 10$ weeks. This suggests that specific models for this cluster require very few data to provide accurate predictions. Cluster C2 also presents accurate results for any value of t_r. As we can observe, the accuracy of the models for cluster C2 is better than the accuracy for C1 when considering $t_r \leq 6$ weeks. However, for $t_r > 6$ weeks, the accuracy of C2 is slightly lower. For example, mRSE $= 0.030 \pm 0.009$ ($t_r = 26$ weeks) and mRSE $= 0.038 \pm 0.009$ ($t_r = 26$ weeks) for clusters C1 and C2, respectively. Cluster C3, which presents the

Your guarantee to users `license`

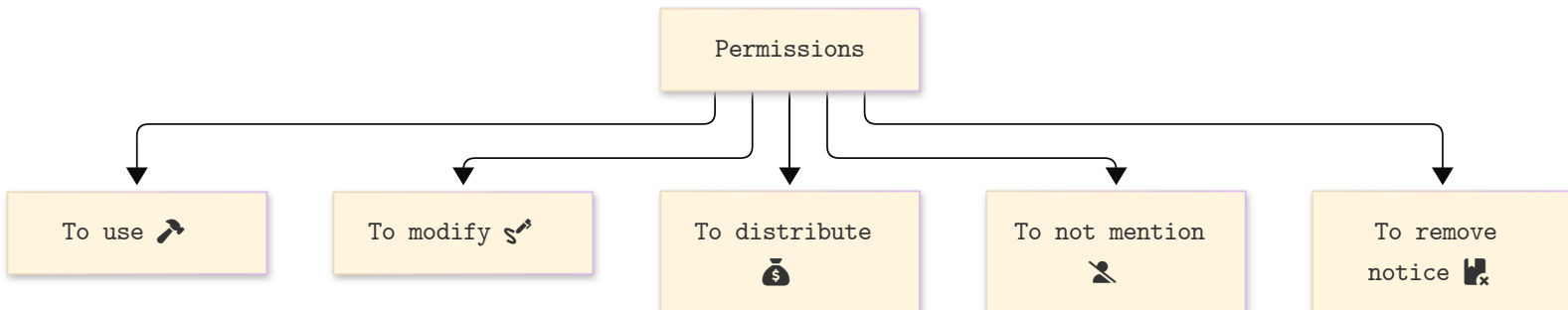
License tells your users and contributors how they are allowed to use your code.



The structure of license world `license`

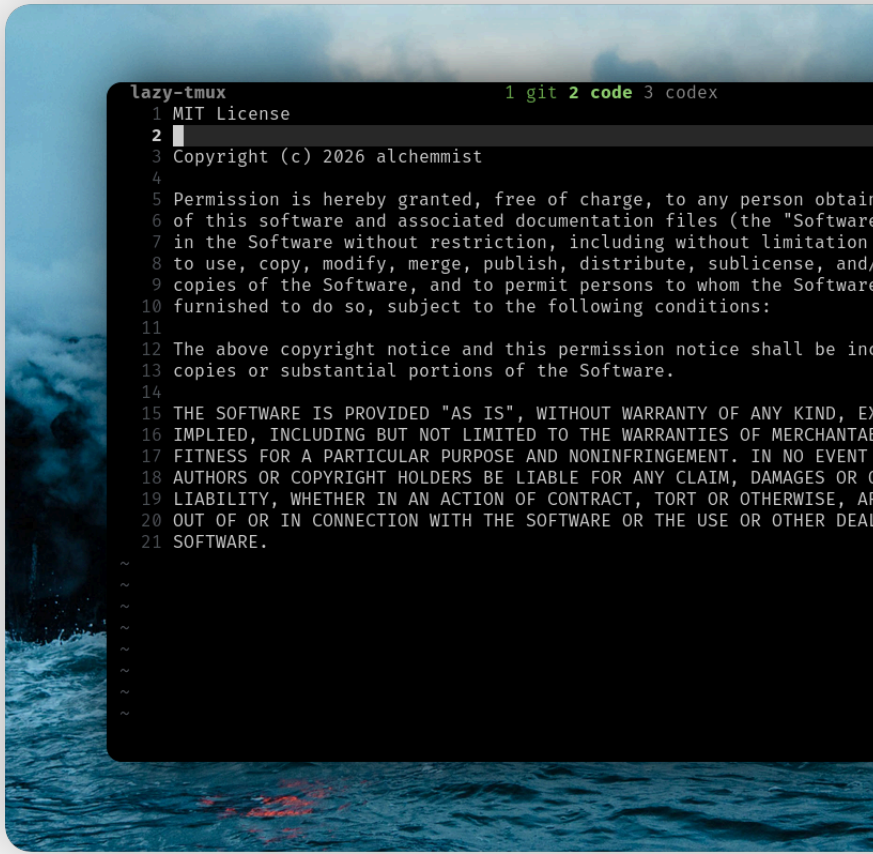
- Two categories of licenses: **copyright** and **copyleft**.
  - Copyright (permissive): allows almost any use of the code with minimal restrictions.
  - Copyleft: requires that derivative works keep the same license.
- Major licenses: **MIT**, **Apache**, **BSD**, **GPL**.
  - MIT: use, modify, distribute, sell; keep copyright and license text.
  - Apache 2.0: permissive + patent grant; patent rights terminate if you sue.
  - BSD: similar to MIT; no endorsement using the author's name.
  - GPL: strong copyleft; distributed modifications must also be GPL.
  - Overall it's a mess 🥴.
- And many many more! You can even write your own license.
- For example: you could allow only students from France to use your code and prohibit everyone else.

Type of license premissions `license`



Recomendation: MIT `license`

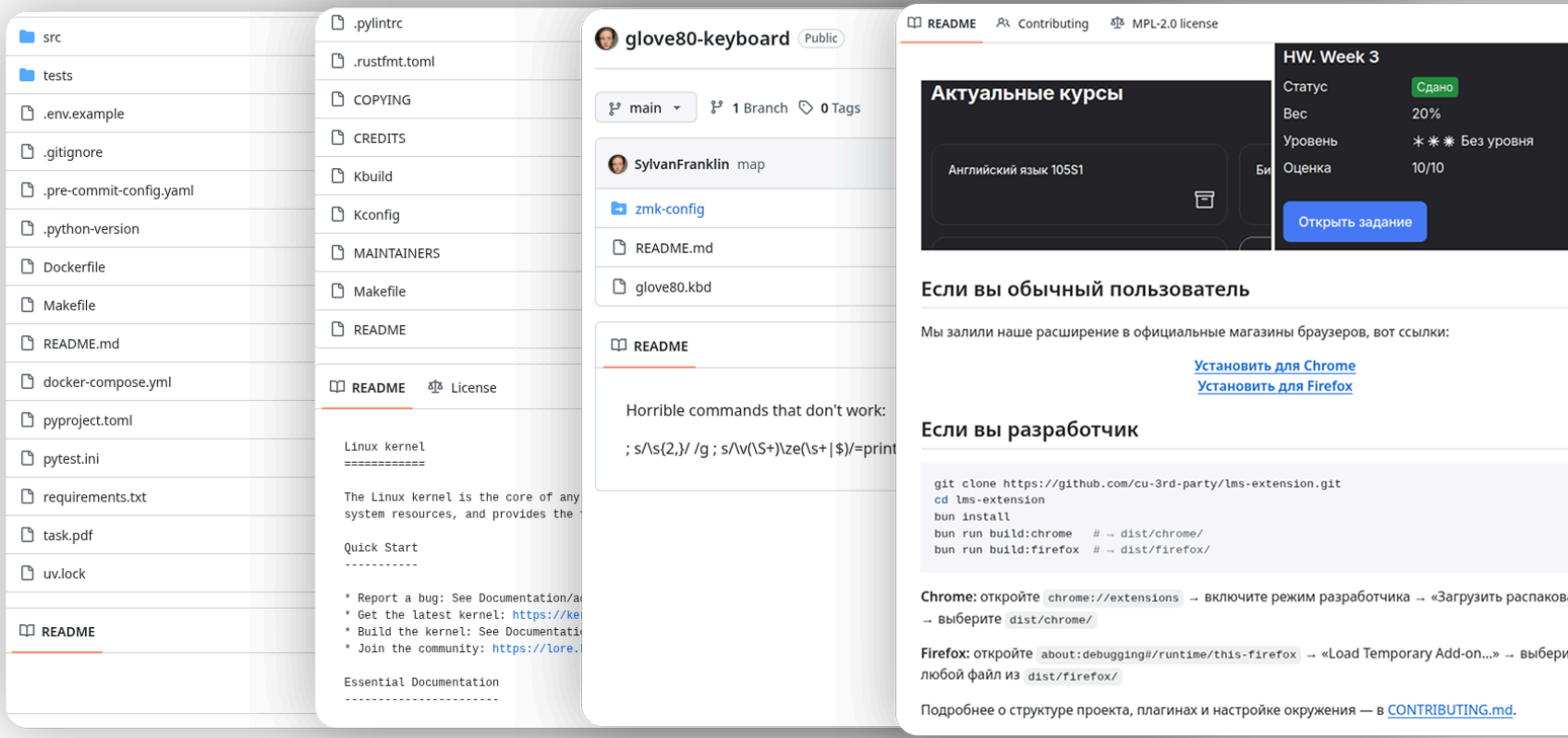
- Very simple and permissive — almost anyone can use your code.
- Minimal legal overhead — just keep the copyright notice.
- Compatible with almost any other license.
- Encourages adoption — companies and developers feel safe using it.
- Flexible — allows closed-source derivatives if needed.
- Widely recognized and trusted in the Open Source community.



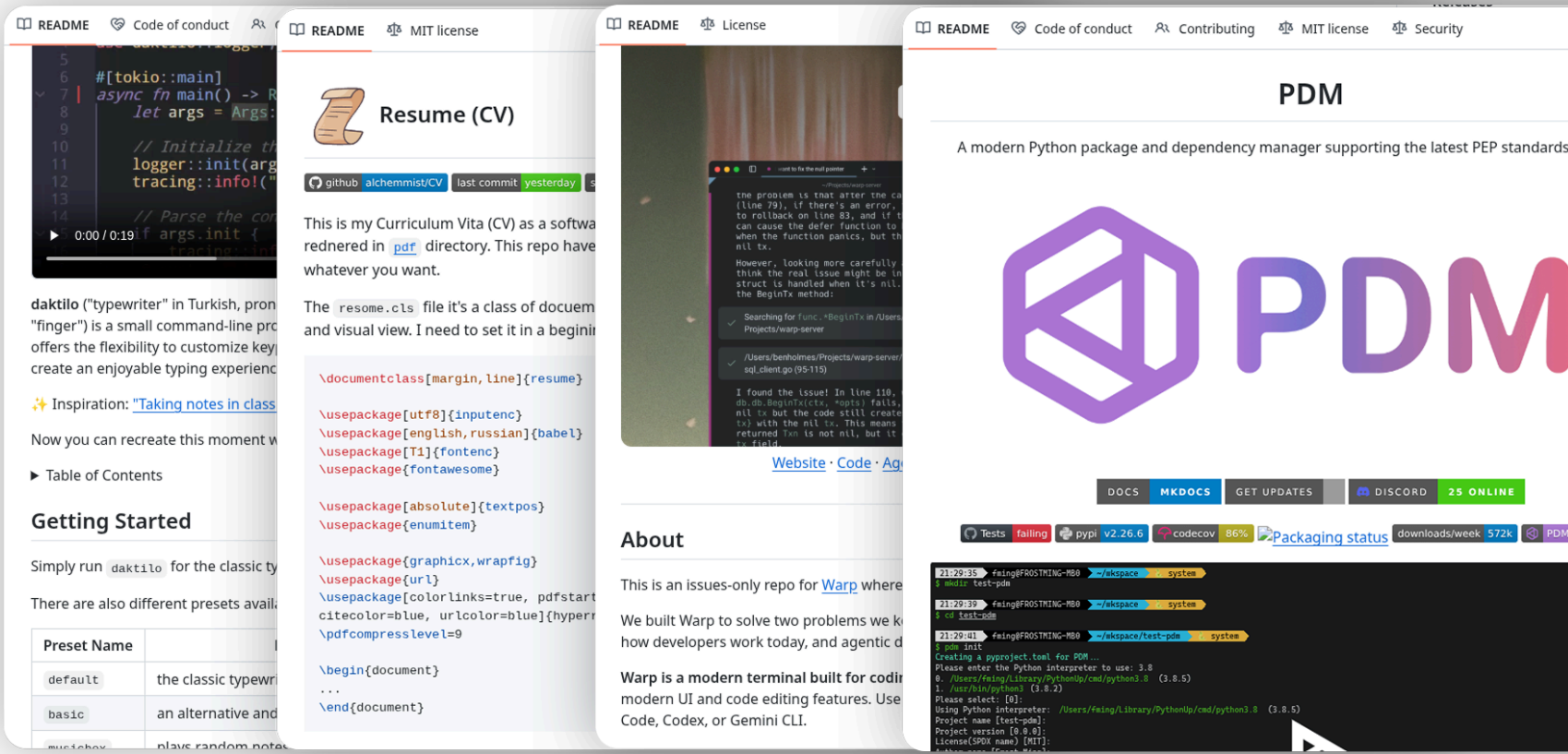
The face of repo `readme`

Let's see some examples. And define a few recommendations.

Is it good `readme` ?



And this one?


README
Code of conduct
#[tokio::main]
async fn main() -> R
let args = Args:
// Initialize th
logger::init(arg
tracing::info!("
// Parse the cor
if args.init {
0:00 / 0:19
daktilo ("typewriter" in Turkish, pron
"finger") is a small command-line prc
offers the flexibility to customize key
create an enjoyable typing experienc
✨ Inspiration: "Taking notes in class
Now you can recreate this moment w
▶ Table of Contents
Getting Started
Simply run daktilo for the classic ty
There are also different presets avail
Preset Name
default
the classic typewri
basic
an alternative and
musicbox
plays random notes
README
MIT license
Resume (CV)
github alchemmist/CV
last commit yesterday
This is my Curriculum Vita (CV) as a softwa
rednered in pdf directory. This repo have
whatever you want.
The resume.cls file it's a class of docuem
and visual view. I need to set it in a beginn
\documentclass[margin,line]{resume}
\usepackage[utf8]{inputenc}
\usepackage[english,russian]{babel}
\usepackage[T1]{fontenc}
\usepackage{fontawesome}
\usepackage[absolute]{textpos}
\usepackage{enumitem}
\usepackage{graphicx,wrapfig}
\usepackage{url}
\usepackage[colorlinks=true, pdfstart
citecolor=blue, urlcolor=blue]{hyperr
\pdfcompresslevel=9
\begin{document}
...
\end{document}
README
License
Website · Code · Ag
About
This is an issues-only repo for Warp where
We built Warp to solve two problems we k
how developers work today, and agentic d
Warp is a modern terminal built for codi
modern UI and code editing features. Use
Code, Codex, or Gemini CLI.
README
Code of conduct
Contributing
MIT license
Security
PDM
A modern Python package and dependency manager supporting the latest PEP standards
PDM
DOCS
MKDOCS
GET UPDATES
DISCORD
25 ONLINE
Tests
failing
pypi
v2.26.6
codecov
86%
Packaging status
downloads/week
572k
$ mkdir test-pdm
$ cd test-pdm
$ pdm init
Creating a pyproject.toml for PDM ...
Please enter the Python interpreter to use: 3.8
0. /Users/fming/Library/PythonUp/cmd/python3.8 (3.8.5)
1. /usr/bin/python3 (3.8.2)
Please select: [0]:
Using Python interpreter: /Users/fming/Library/PythonUp/cmd/python3.8 (3.8.5)
Project name [test-pdm]:
Project version [0.0.0]:
License(SPDX name) [MIT]:

Recommendations `readme`

- ...