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The Need for Speed: Increasing the Code Review Velocity

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Appendix B

Supplementary material for Chapter 3

B.1 Spearman ρ per each GitHub project

Table B.1: Spearman correlation coefficient between time-to-merge in hours and total SLOC in a pull request by project.

Name	ρ	p value
angular-angular-cli	0.18	< 0.001
angular-components	0.21	< 0.001
ansible-ansible	0.28	< 0.001
apache-airflow	0.46	< 0.001
apache-dubbo	0.13	< 0.001
apache-flink	0.32	< 0.001
apache-kafka	0.37	< 0.001
apache-shardingsphere	0.10	< 0.001
apache-skywalking	0.41	< 0.001
apple-swift	0.28	< 0.001
BabylonJS-Babylon.js	0.05	< 0.001
Bash-it-bash-it	0.23	< 0.001
bitcoin-bitcoin	0.40	< 0.001
borgbackup-borg	0.30	< 0.001
cakephp-cakephp	0.47	< 0.001
chef-chef	0.28	< 0.001
ClickHouse-ClickHouse	0.36	< 0.001
cocos2d-cocos2d-x	0.11	< 0.001
discourse-discourse	0.26	< 0.001
django-django	0.39	< 0.001
dokku-dokku	0.22	< 0.001
dotnet-aspnetcore	0.23	< 0.001
dotnet-efcore	0.35	< 0.001
dotnet-orleans	0.42	< 0.001

Table B.1: Spearman correlation coefficient between time-to-merge in hours and total SLOC in a pull request by project (continued).

Name	ρ	p value
dotnet-roslyn	0.15	< 0.001
dotnet-runtime	0.42	< 0.001
elastic-elasticsearch	0.31	< 0.001
elastic-kibana	0.23	< 0.001
electron-electron	0.29	< 0.001
facebook-jest	0.31	< 0.001
facebook-react	0.19	< 0.001
fastlane-fastlane	0.33	< 0.001
fish-shell-fish-shell	0.47	< 0.001
forem-forem	0.29	< 0.001
gatsbyjs-gatsby	0.30	< 0.001
getsentry-sentry	0.41	< 0.001
godotengine-godot	0.24	< 0.001
grafana-grafana	0.34	< 0.001
grpc-grpc	0.30	< 0.001
home-assistant-core	0.43	< 0.001
Homebrew-brew	0.34	< 0.001
jenkinsci-jenkins	0.35	< 0.001
kaldi-asr-kaldi	0.41	< 0.001
laravel-framework	0.24	< 0.001
libgdx-libgdx	0.27	< 0.001
libgit2-libgit2	0.37	< 0.001
magento-magento2	0.25	< 0.001
matomo-org-matomo	0.18	< 0.001
microsoft-playwright	0.20	< 0.001
microsoft-TypeScript	0.28	< 0.001
microsoft-vscode	0.13	< 0.001
monicaHQ-monica	0.13	< 0.001
mono-mono	0.27	< 0.001
mozilla-pdf.js	0.31	< 0.001
mrdoob-three.js	0.17	< 0.001
mui-org-material-ui	0.32	< 0.001
netdata-netdata	0.25	< 0.001
nextcloud-server	0.28	< 0.001
numpy-numpy	0.40	< 0.001
ohmyzsh-ohmyzsh	0.10	< 0.001
opencv-opencv	0.31	< 0.001
OpenRA-OpenRA	0.40	< 0.001
openzfs-zfs	0.45	< 0.001

Table B.1: Spearman correlation coefficient between time-to-merge in hours and total SLOC in a pull request by project (continued).

Name	ρ	p value
owncloud-core	0.26	< 0.001
PaddlePaddle-Paddle	0.40	< 0.001
pandas-dev-pandas	0.35	< 0.001
phalcon-cphalcon	-0.01	0.90
pi-hole-pi-hole	0.29	< 0.001
PowerShell-PowerShell	0.32	< 0.001
ppy-osu	0.44	< 0.001
prettier-prettier	0.33	< 0.001
puppetlabs-puppet	0.21	< 0.001
qmk-qmk_firmware	0.28	< 0.001
rabbitmq-rabbitmq-server	0.40	< 0.001
radareorg-radare2	0.28	< 0.001
rails-rails	0.41	< 0.001
rapid7-metasploit-framework	0.45	< 0.001
ray-project-ray	0.47	< 0.001
ReactiveX-RxJava	0.12	< 0.001
reactos-reactos	0.26	< 0.001
RetroPie-RetroPie-Setup	0.27	< 0.001
RocketChat-Rocket.Chat	0.07	< 0.001
rubocop-rubocop	0.30	< 0.001
scikit-learn-scikit-learn	0.51	< 0.001
spinnaker-spinnaker	0.30	< 0.001
square-okhttp	0.18	< 0.001
storybookjs-storybook	0.27	< 0.001
swaywm-sway	0.37	< 0.001
symfony-symfony	0.34	< 0.001
systemd-systemd	0.36	< 0.001
taosdata-TDengine	0.07	< 0.001
tensorflow-tensorflow	0.16	< 0.001
tootsuite-mastodon	0.15	< 0.001
TryGhost-Ghost	0.23	< 0.001
twbs-bootstrap	0.17	< 0.001
unixorn-awesome-zsh-plugins	0.07	< 0.05
vercel-next.js	0.28	< 0.001
xamarin-Xamarin.Forms	0.33	< 0.001
xbmc-xbmc	0.34	< 0.001
yii2-yii2	0.27	< 0.001

