

cti-checker-pprkph4a-uc.a.run.app

Computational Tree Logic (CTL) Checker

sign up / login

Main screen for validation and processing of CTL formulae.
Right-click -> Inspect -> Console for more details.

[Swagger API doc](#) [Source Code](#) [Usage Instructions](#)

Load JSON Model:
[Choose File](#) Broken Model 2.json

CTL JSON [CTL Graph](#)

Raw Model Definition:

```
{
  "kripke-model": {
    "states": ["s1", "s2", "s3", "s4"],
    "transitions": ["s1,s2", "s1,s3", "s3,s4", "s4,s2", "s2,s3"],
    "atoms": [
      {
        "s1": ["p", "q"]
      },
      {
        "s2": ["q", "t", "r"]
      },
      {
        "s3": []
      },
      {
        "s4": ["t"]
      }
    ]
  }
}
```

Select state:
s3

[Verify Formula](#) [Save Model](#)

Validation Results:
Phi - EXr does NOT hold for state s3.

Console:

```

[EX]
[Successful formula match]
[EX]
[Successful formula match]
[Phi - EXr holds for state s1] success
[Phi - EXr does NOT hold for state s2.] success
[Phi - EXr does NOT hold for state s3.] success

```

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Load JSON Model:
[Choose File](#) no file selected

CTL JSON [CTL Graph](#)

Raw Model Definition:

Select state:

[Verify Formula](#) [Save Model](#)

Validation Results:

Kripke model must contain proper transitions:
"FROM_STATE,TO_STATE"

Close

Console:

```

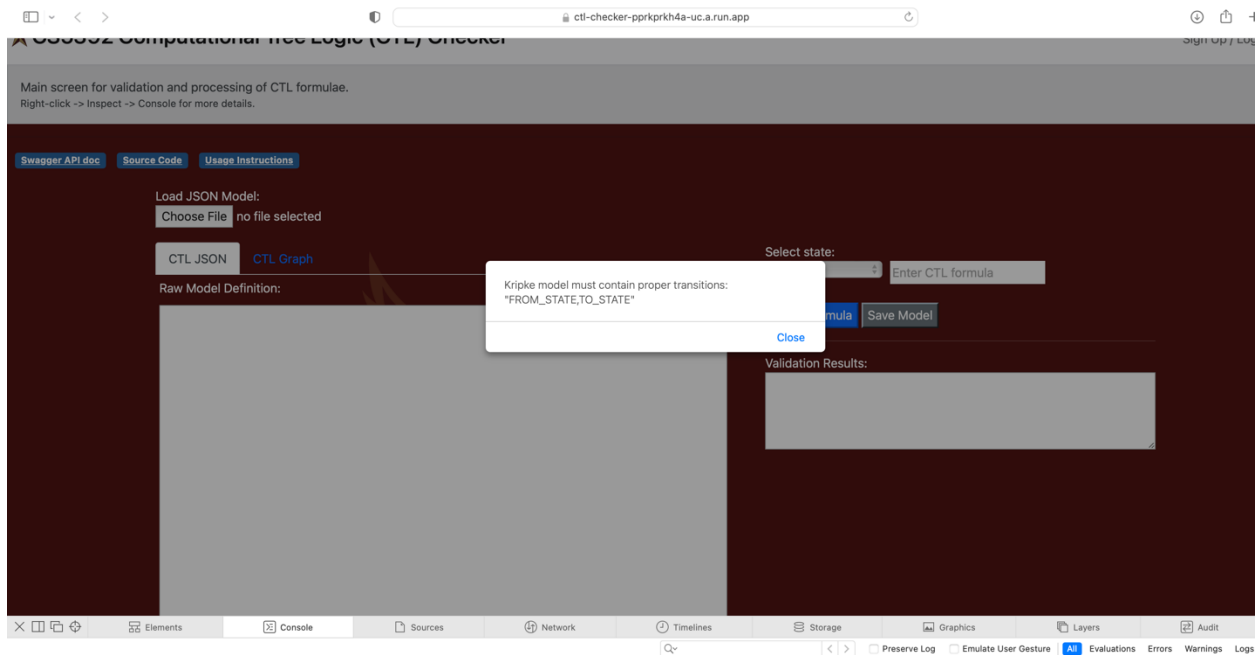
[EX]
[Successful formula match]
[EX]
[Successful formula match]
[Phi - EXr holds for state s1] success
[Phi - EXr does NOT hold for state s2.] success
[Phi - EXr does NOT hold for state s3.] success

```

Console cleared at 4:54:50 PM

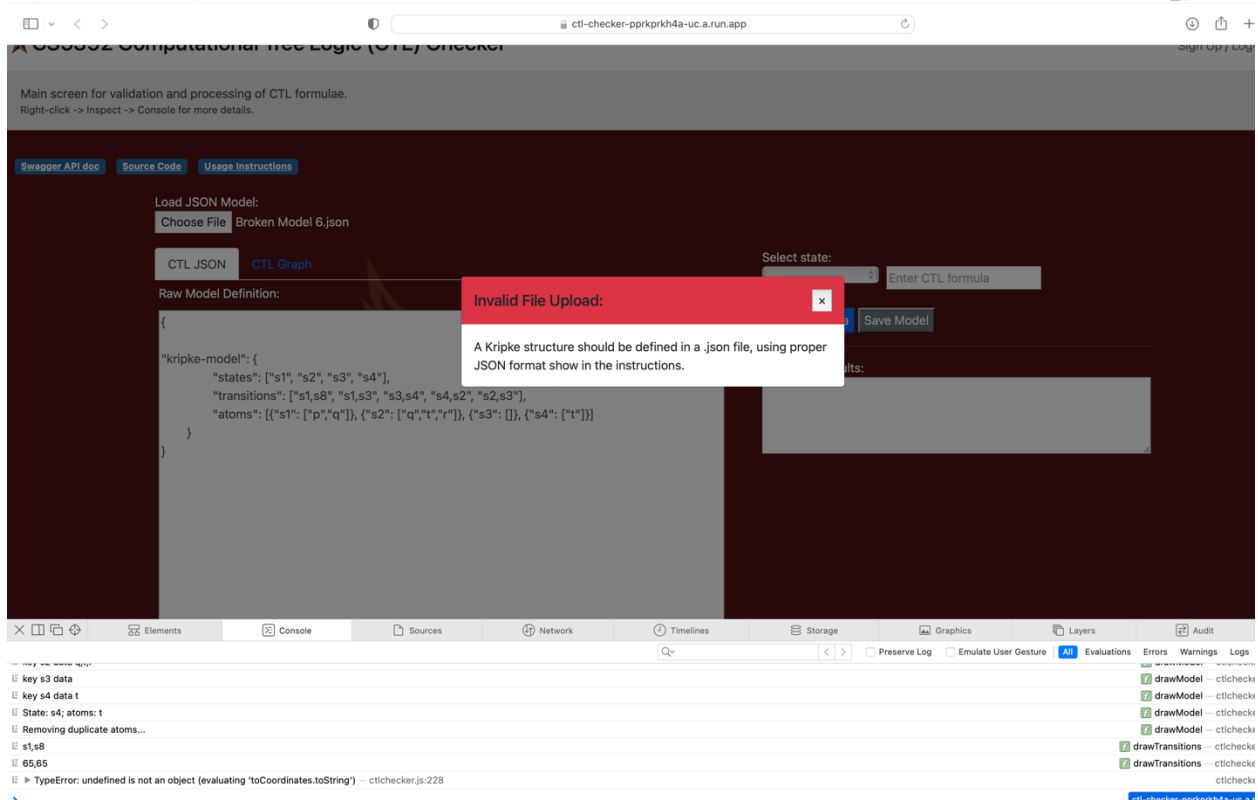
Kripke model file name: Broken Model 3.json

getFile — ctichecker.js



Console cleared at 4:55:44 PM

- Test Regex validation: clichec
- a: true clichec
- true: true clichec
- Kripke model file name: Broken Model 4.json clichec



ctf-checker-pprprkh4a-uc.a.run.app

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[Swagger API doc](#) [Source Code](#) [Usage Instructions](#)

Load JSON Model:
 Broken Model 7.json

☒ CTL JSON ☒ CTL Graph

CTL Model Representation:

Select state:

Validation Results:

Elements Console Sources Network Timelines Storage Graphics Layers Audit

195,195
Select has no options to remove.

drawTransitions - clichecker.js:223
drawTransitions - clichecker.js:226
drawTransitions - clichecker.js:228
drawTransitions - clichecker.js:223
drawTransitions - clichecker.js:226
drawTransitions - clichecker.js:228
removeOptions - clichecker.js:315

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Computational Tree Logic (CTL) Checker

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[Swagger API doc](#) [Source Code](#) [Usage Instructions](#)

Load JSON Model:
 Broken Model 8.json

☒ CTL JSON ☒ CTL Graph

Raw Model Definition:

```
{
  "kripke-model": {
    "states": ["s1", "s2", "s3", "s4"],
    "transitions": ["s1,s2", "s1,s3", "s3,s4", "s4,s2", "s2,s3"],
    "atoms": [{"s1": ["p","q"]}, {"s2": ["q","t","r"]}, {"s3": []}, {"s4": ["t"]}, {"s5": ["p"]}]}
}
```

Select state:

Validation Results:

Elements Console Sources Network Timelines Storage Graphics Layers Audit

195,195
Select has no options to remove.
Successful formula match!
EX
Successful formula match!
Failed to load resource: the server responded with a status of 500 ()
[object Object] error

drawTransitions - clichecker.js:228
removeOptions - clichecker.js:315
clichecker.js:37
clichecker.js:33
clichecker.js:37
https://ctf-checker-pprprkh4a-uc.a.run.app/validateModel/
handleError - clichecker.js:163

ctf-checker-pprprkh4a-uc.a.run.app

cti-checker-pprkprkh4a-uc.a.run.app

★CS5392 Computational Tree Logic (CTL) Checker

Main screen for validation and processing of CTL formulae.
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Swagger API docSource CodeUsage Instructions

Load JSON Model:
Choose FileBroken Model 1.json

CTL JSONCTL Graph

Raw Model Definition:

Select state:

Enter CTL formula

Verify FormulaSave Model

Validation Results: