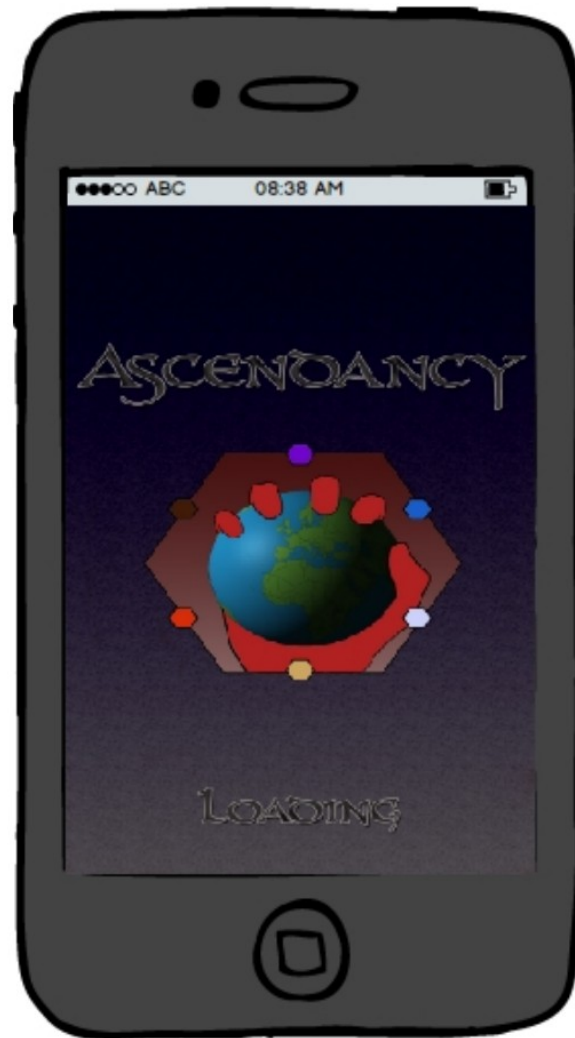


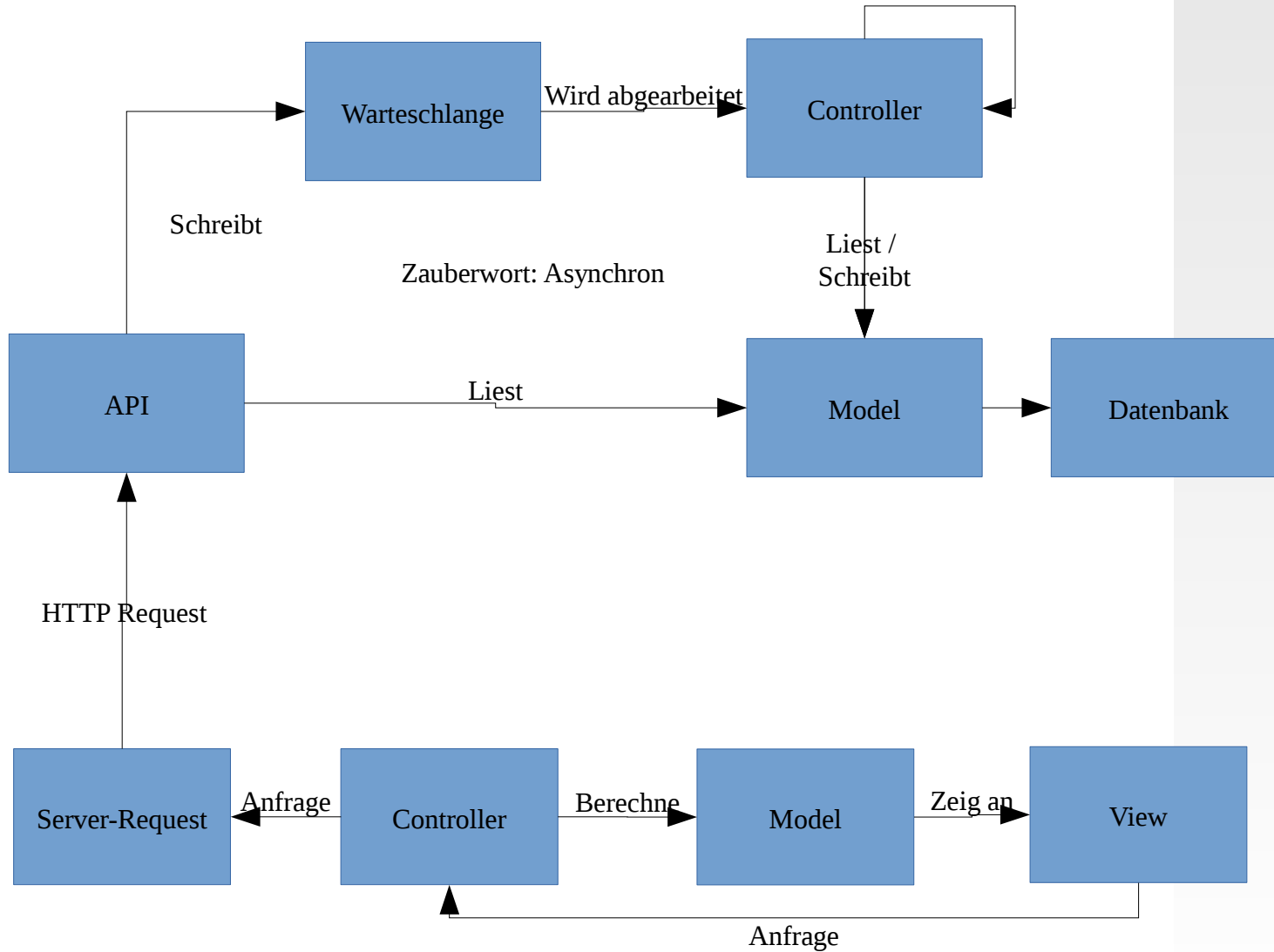
Ascendancy

Bernd Schmidt
Thomas Volkmann
Chris Arnold
Norman Simanowski
Erfurt University of Applied Sciences

- Wireframes
- Architektur
- Komponenten
- Klassendiagramm
- Datenbank Schema
- Aktueller Stand, Probleme, Aufgabenverteilung
- Zusammenarbeit im Team

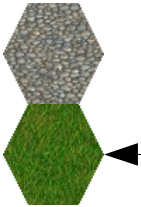
Wireframes





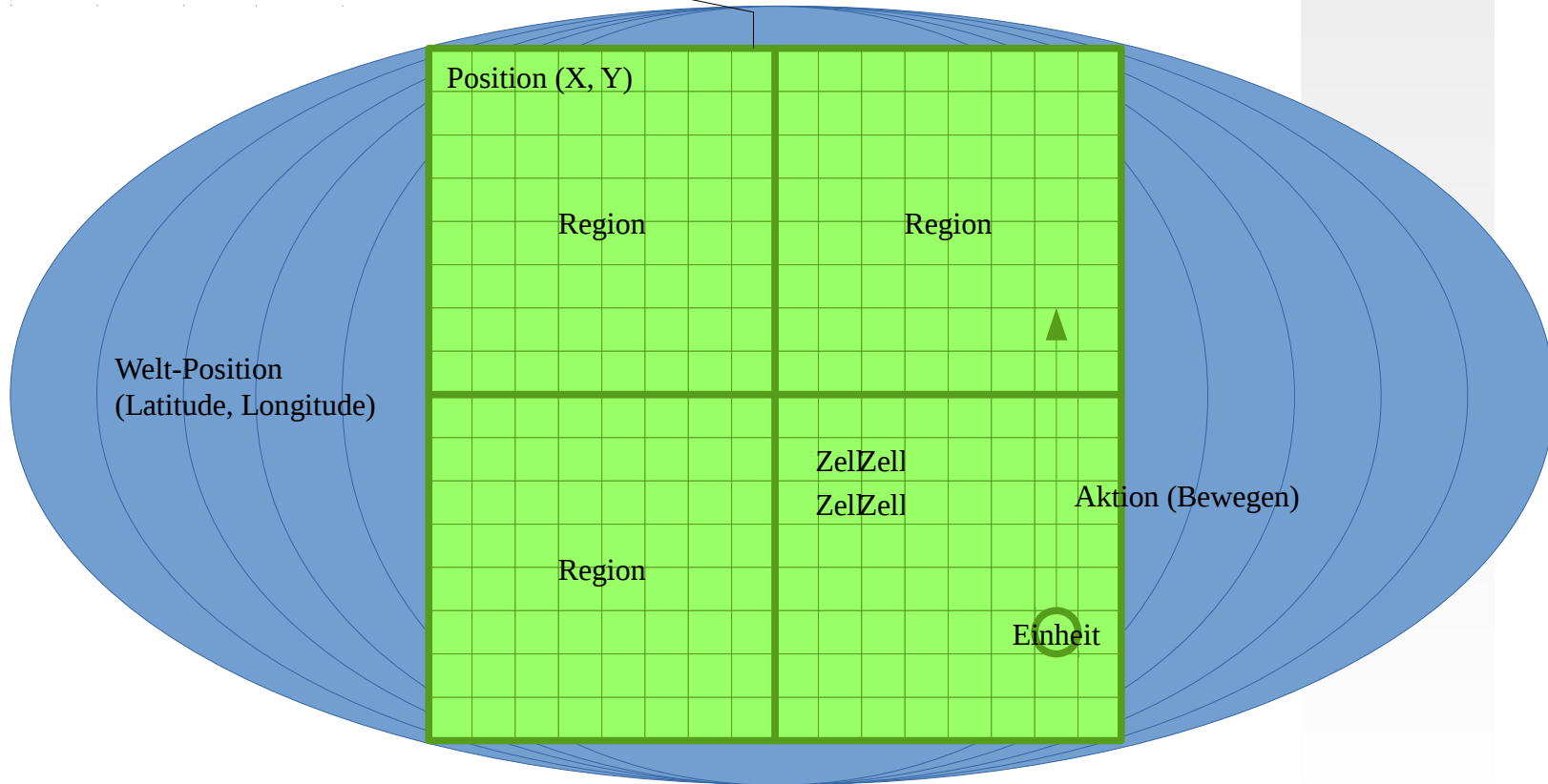
Komponenten - Base

ZellTypen

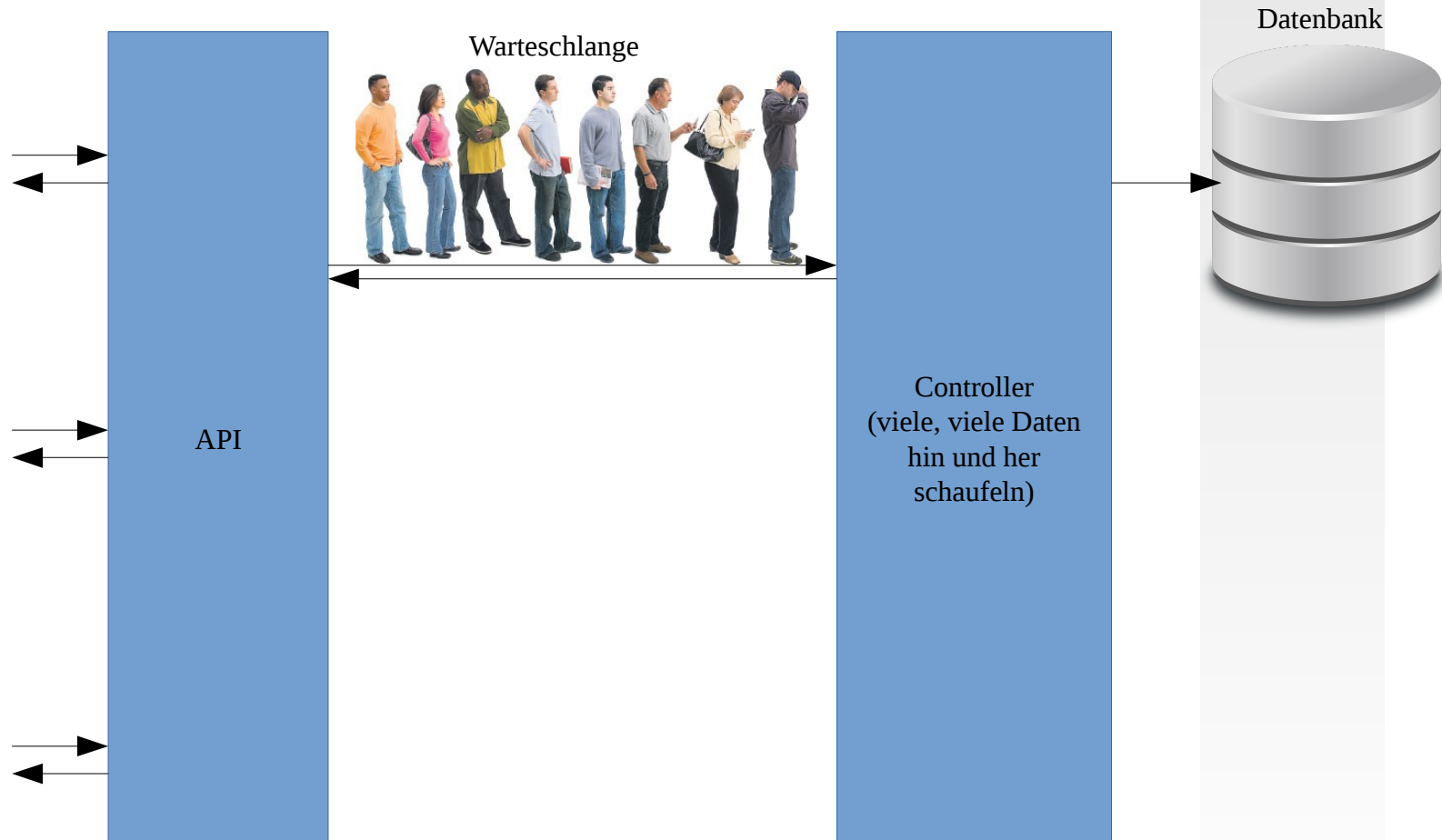


Request (LoadRegion)

```
{  
    "RegionPositions": [Region0, Region1, ...],  
    "Position": PlayerPosition,  
    "SessionID": GUID  
}
```



Komponenten - Server

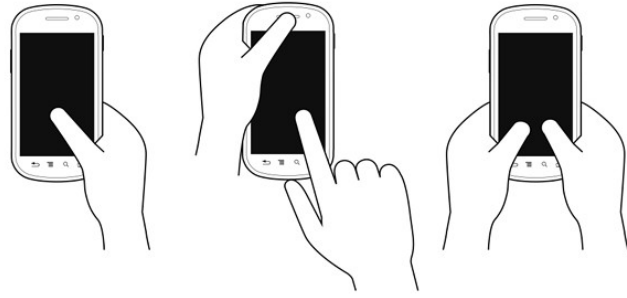


Komponenten - Client

GPS



Touch → Aktionen



CocosSharp

Scene

Layer

Layer

Layer

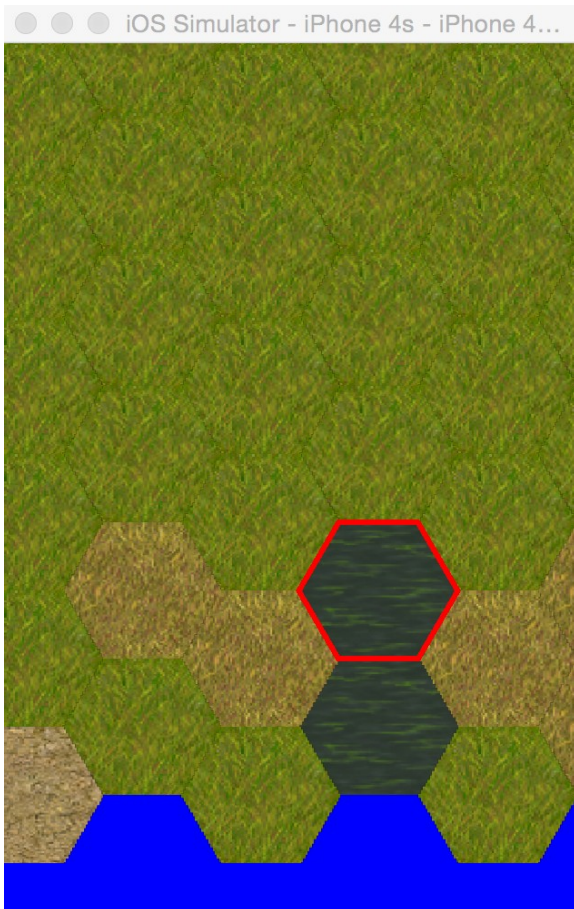
TileMap

Sprites

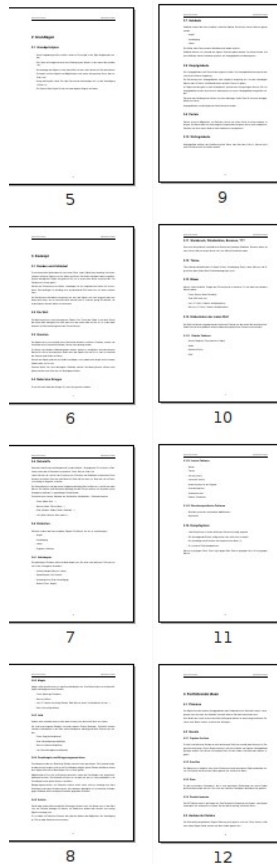


Aktueller Stand

Rudimentäre Anzeige (von Chris und Norman)



Game Design (alle)



Weltdaten als JSON (Bernd)

```
[[{"id": 1, "name": "Germany", "population": 82, "area": 357, "continent": "Europe"}, {"id": 2, "name": "France", "population": 65, "area": 643, "continent": "Europe"}, {"id": 3, "name": "Italy", "population": 60, "area": 301, "continent": "Europe"}, {"id": 4, "name": "Spain", "population": 45, "area": 505, "continent": "Europe"}, {"id": 5, "name": "United Kingdom", "population": 61, "area": 244, "continent": "Europe"}, {"id": 6, "name": "Russia", "population": 142, "area": 1709, "continent": "Europe"}, {"id": 7, "name": "China", "population": 137, "area": 960, "continent": "Asia"}, {"id": 8, "name": "USA", "population": 307, "area": 952, "continent": "North America"}, {"id": 9, "name": "Japan", "population": 127, "area": 377, "continent": "Asia"}, {"id": 10, "name": "India", "population": 110, "area": 328, "continent": "Asia"}, {"id": 11, "name": "Brazil", "population": 191, "area": 851, "continent": "South America"}, {"id": 12, "name": "Australia", "population": 22, "area": 773, "continent": "Oceania"}, {"id": 13, "name": "Canada", "population": 34, "area": 997, "continent": "North America"}, {"id": 14, "name": "Mexico", "population": 112, "area": 196, "continent": "North America"}, {"id": 15, "name": "Argentina", "population": 40, "area": 278, "continent": "South America"}, {"id": 16, "name": "Colombia", "population": 44, "area": 114, "continent": "South America"}, {"id": 17, "name": "Venezuela", "population": 28, "area": 916, "continent": "South America"}, {"id": 18, "name": "Peru", "population": 31, "area": 128, "continent": "South America"}, {"id": 19, "name": "Chile", "population": 17, "area": 756, "continent": "South America"}, {"id": 20, "name": "Ecuador", "population": 16, "area": 283, "continent": "South America"}, {"id": 21, "name": "Bolivia", "population": 11, "area": 364, "continent": "South America"}, {"id": 22, "name": "Paraguay", "population": 7, "area": 406, "continent": "South America"}, {"id": 23, "name": "Uruguay", "population": 3, "area": 176, "continent": "South America"}, {"id": 24, "name": "Cuba", "population": 11, "area": 110, "continent": "North America"}, {"id": 25, "name": "Haiti", "population": 8, "area": 77, "continent": "North America"}, {"id": 26, "name": "Dominican Republic", "population": 7, "area": 75, "continent": "North America"}, {"id": 27, "name": "Jamaica", "population": 2, "area": 10, "continent": "North America"}, {"id": 28, "name": "Trinidad and Tobago", "population": 1, "area": 5, "continent": "North America"}, {"id": 29, "name": "Suriname", "population": 0, "area": 162, "continent": "South America"}, {"id": 30, "name": "Guyana", "population": 0, "area": 214, "continent": "South America"}, {"id": 31, "name": "Fiji", "population": 0, "area": 182, "continent": "Oceania"}, {"id": 32, "name": "Vanuatu", "population": 0, "area": 12, "continent": "Oceania"}, {"id": 33, "name": "Solomon Islands", "population": 0, "area": 284, "continent": "Oceania"}, {"id": 34, "name": "Papua New Guinea", "population": 0, "area": 462, "continent": "Oceania"}, {"id": 35, "name": "Timor-Leste", "population": 0, "area": 14, "continent": "Asia"}, {"id": 36, "name": "Myanmar", "population": 54, "area": 676, "continent": "Asia"}, {"id": 37, "name": "Thailand", "population": 63, "area": 513, "continent": "Asia"}, {"id": 38, "name": "Vietnam", "population": 78, "area": 331, "continent": "Asia"}, {"id": 39, "name": "Laos", "population": 6, "area": 236, "continent": "Asia"}, {"id": 40, "name": "Cambodia", "population": 15, "area": 181, "continent": "Asia"}, {"id": 41, "name": "Singapore", "population": 5, "area": 714, "continent": "Asia"}, {"id": 42, "name": "Malaysia", "population": 24, "area": 330, "continent": "Asia"}, {"id": 43, "name": "Indonesia", "population": 200, "area": 1904, "continent": "Asia"}, {"id": 44, "name": "Philippines", "population": 88, "area": 340, "continent": "Asia"}, {"id": 45, "name": "Vietnam", "population": 78, "area": 331, "continent": "Asia"}, {"id": 46, "name": "Myanmar", "population": 54, "area": 676, "continent": "Asia"}, {"id": 47, "name": "Thailand", "population": 63, "area": 513, "continent": "Asia"}, {"id": 48, "name": "Laos", "population": 6, "area": 236, "continent": "Asia"}, {"id": 49, "name": "Cambodia", "population": 15, "area": 181, "continent": "Asia"}, {"id": 50, "name": "Singapore", "population": 5, "area": 714, "continent": "Asia"}, {"id": 51, "name": "Malaysia", "population": 24, "area": 330, "continent": "Asia"}, {"id": 52, "name": "Indonesia", "population": 200, "area": 1904, "continent": "Asia"}, {"id": 53, "name": "Philippines", "population": 88, "area": 340, "continent": "Asia"}, {"id": 54, "name": "Vietnam", "population": 78, "area": 331, "continent": "Asia"}, {"id": 55, "name": "Myanmar", "population": 54, "area": 676, "continent": "Asia"}, {"id": 56, "name": "Thailand", "population": 63, "area": 513, "continent": "Asia"}, {"id": 57, "name": "Laos", "population": 6, "area": 236, "continent": "Asia"}, {"id": 58, "name": "Cambodia", "population": 15, "area": 181, "continent": "Asia"}, {"id": 59, "name": "Singapore", "population": 5, "area": 714, "continent": "Asia"}, {"id": 60, "name": "Malaysia", "population": 24, "area": 330, "continent": "Asia"}, {"id": 61, "name": "Indonesia", "population": 200, "area": 1904, "continent": "Asia"}, {"id": 62, "name": "Philippines", "population": 88, "area": 340, "continent": "Asia"}, {"id": 63, "name": "Vietnam", "population": 78, "area": 331, "continent": "Asia"}, {"id": 64, "name": "Myanmar", "population": 54, "area": 676, "continent": "Asia"}, {"id": 65, "name": "Thailand", "population": 63, "area": 513, "continent": "Asia"}, {"id": 66, "name": "Laos", "population": 6, "area": 236, "continent": "Asia"}, {"id": 67, "name": "Cambodia", "population": 15, "area": 181, "continent": "Asia"}, {"id": 68, "name": "Singapore", "population": 5, "area": 714, "continent": "Asia"}, {"id": 69, "name": "Malaysia", "population": 24, "area": 330, "continent": "Asia"}, {"id": 70, "name": "Indonesia", "population": 200, "area": 1904, "continent": "Asia"}, {"id": 71, "name": "Philippines", "population": 88, "area": 340, "continent": "Asia"}, {"id": 72, "name": "Vietnam", "population": 78, "area": 331, "continent": "Asia"}, {"id": 73, "name": "Myanmar", "population": 54, "area": 676, "continent": "Asia"}, {"id": 74, "name": "Thailand", "population": 63, "area": 513, "continent": "Asia"}, {"id": 75, "name": "Laos", "population": 6, "area": 236, "continent": "Asia"}, {"id": 76, "name": "Cambodia", "population": 15, "area": 181, "continent": "Asia"}, {"id": 77, "name": "Singapore", "population": 5, "area": 714, "continent": "Asia"}, {"id": 78, "name": "Malaysia", "population": 24, "area": 330, "continent": "Asia"}, {"id": 79, "name": "Indonesia", "population": 200, "area": 1904, "continent": "Asia"}, {"id": 80, "name": "Philippines", "population": 88, "area": 340, "continent": "Asia"}, {"id": 81, "name": "Vietnam", "population": 78, "area": 331, "continent": "Asia"}, {"id": 82, "name": "Myanmar", "population": 54, "area": 676, "continent": "Asia"}, {"id": 83, "name": "Thailand", "population": 63, "area": 513, "continent": "Asia"}, {"id": 84, "name": "Laos", "population": 6, "area": 236, "continent": "Asia"}, {"id": 85, "name": "Cambodia", "population": 15, "area": 181, "continent": "Asia"}, {"id": 86, "name": "Singapore", "population": 5, "area": 714, "continent": "Asia"}, {"id": 87, "name": "Malaysia", "population": 24, "area": 330, "continent": "Asia"}, {"id": 88, "name": "Indonesia", "population": 200, "area": 1904, "continent": "Asia"}, {"id": 89, "name": "Philippines", "population": 88, "area": 340, "continent": "Asia"}, {"id": 90, "name": "Vietnam", "population": 78, "area": 331, "continent": "Asia"}, {"id": 91, "name": "Myanmar", "population": 54, "area": 676, "continent": "Asia"}, {"id": 92, "name": "Thailand", "population": 63, "area": 513, "continent": "Asia"}, {"id": 93, "name": "Laos", "population": 6, "area": 236, "continent": "Asia"}, {"id": 94, "name": "Cambodia", "population": 15, "area": 181, "continent": "Asia"}, {"id": 95, "name": "Singapore", "population": 5, "area": 714, "continent": "Asia"}, {"id": 96, "name": "Malaysia", "population": 24, "area": 330, "continent": "Asia"}, {"id": 97, "name": "Indonesia", "population": 200, "area": 1904, "continent": "Asia"}, {"id": 98, "name": "Philippines", "population": 88, "area": 340, "continent": "Asia"}, {"id": 99, "name": "Vietnam", "population": 78, "area": 331, "continent": "Asia"}, {"id": 100, "name": "Myanmar", "population": 54, "area": 676, "continent": "Asia"}]]
```


- Threading auf dem Server

Viele Leser

Paralleles Schreiben

Performance

Datenkonsistenz

Lösung theoretisch vorhanden → praktisch noch nicht umgesetzt

- Konvertierung der Geodaten zu JSON

Große Welt → Viele Daten → Lange Konvertierungszeiten

Es werden .xnb Dateien erwartet

- Monogame Content Pipeline

Keine native Unterstützung für Tiled Format (.tmx)

- daher eigene Kompilierung des Benötigten Tools
- Rattenschwanz an Abhängigkeiten und Fehlern

GitHub liefert beim Clonen nicht alle Abhängigkeiten

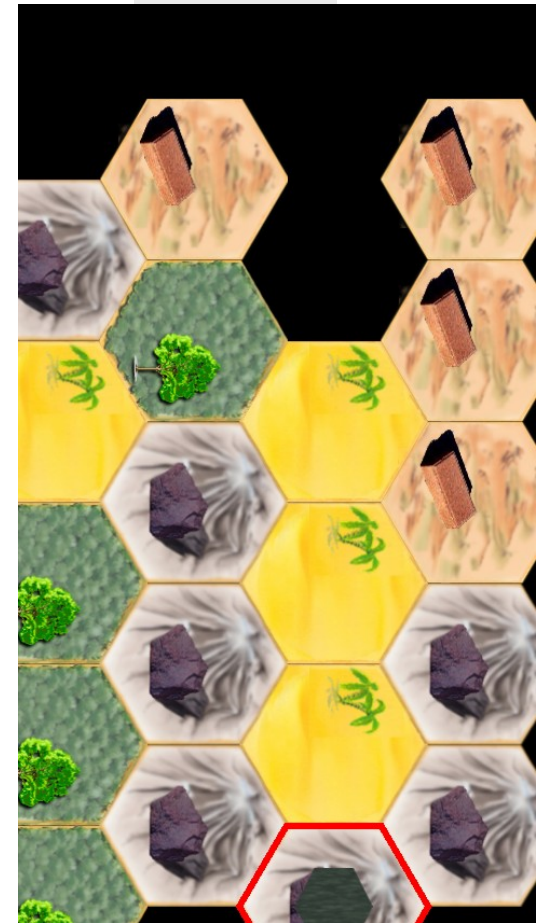
- CocosSharp -> MonoGame
- MonoGame -> Dependencies
- MonoGame -> Kickstart

3 Schritte

- Monogame Erstellen
- CocosSharp Content Pipeline Erstellen
- Monogame mit CCS Pipeline neu Erstellen

Hexagonale Felder

- Ursprünglich Hexagonale Felder gedacht
→ Probleme bei Anzeige jeder zweiten Zeile
- „Lösung“: Isometrische Ansicht
mit Hexagonalen Feldern



Git, Skype, regelmäßige Treffen (wöchentlich)

Thomas: „Der Zusammenhang im Team ist super, wenn es darum geht, jemanden zu verbessern oder anzuscheißen“

